

Program

Room S1

Bldg. 1 133

XAFS Analysis for Chemists - Fundamental Guidance and the Cutting-Edge Applications

Saturday, March 16, AM

Chair: TAKAYA, Hikaru (9 : 30 ~ 10 : 40)

1S1-01 Special Program Lecture Fundamentals for XAFS analysis (Inst. for Cat., Hokkaido Univ.) ○ASAKURA, Kiyotaka (09:30~10:10)**1S1-02 Special Program Lecture** Application of XANES spectroscopy: Oxidation number and pre-edge peak (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○YAMAMOTO, Takashi (10:10~10:40)

Chair: HONMA, Tetsuo (10 : 40~12 : 00)

1S1-03 Special Program Lecture Basics and applications of theoretical simulations of XANES (Fac. Sci., Univ. of Toyama) ○HATADA, Keisuke (10:40~11:10)**1S1-04 Special Program Lecture** Materials science driven by a fusion of XAFS measurements and informatics (JASRI) ○MIZUMAKI, Masaichiro (11:10~11:40)**1S1-05 Special Program Lecture** Industrial use: Observation inside battery by XAFS (NISSAN ARC, LTD.) ○ITO, Takanori (11:40~12:00)

Chair: TAKAYA, Hikaru (12 : 00~12 : 30)

1S1-06 Special Program Lecture XAFS in soft X-ray regions: What is observed and understood by this spectroscopic method (PMS, IMS) ○NAGASAKA, Masanari (12:00~12:30)**Frontier of Artificial Photosynthesis**

Saturday, March 16, PM

(13 : 30~13 : 35)

1S1-07 Medium and Long-Term Program Lecture Opening Remarks (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (13:30~13:35)

Chair: ABE, Ryu (13 : 35~15 : 15)

1S1-08 Medium and Long-Term Program Lecture Recent Progress of Solar Hydrogen Production by Photocatalytic Water Splitting and Issues for Practical Application (Grad. Sch. Eng., The Univ. of Tokyo) ○DOMEN, Kazunari (13:35~14:15)**1S1-09 Medium and Long-Term Program Lecture** How to utilize solar hydrogen and carbon dioxide? (Mitsubishi Chemical Corp.) ○SETOYAMA, Tohru (14:15~14:45)**1S1-10 Medium and Long-Term Program Lecture** Toshiba's approach to carbon dioxide recycling technology for a carbon-free society (TOSHIBA CORP.) ○KITAGAWA, Ryota; KOFUJI, Yusuke; SUGANO, Yoshitsune; TAMURA, Jun; MIKOSHIBA, Satoshi (14:45~15:15)

Chair: KUDO, Akihiko (15 : 25~16 : 25)

1S1-11 Medium and Long-Term Program Lecture Photocatalyst Material Design for Artificial Photosynthesis (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (15:25~15:55)**1S1-12 Medium and Long-Term Program Lecture** Next target after the demonstration of "highly efficient organic matter synthesis from CO₂, water and sunlight" (Toyota Central R&D Labs., Inc.) ○MORIKAWA, Takeshi (15:55~16:25)

Chair: ISHITANI, Osamu (16 : 25~17 : 25)

1S1-13 Medium and Long-Term Program Lecture Showa Shell's research on artificial photosynthesis (SHOWA SHELL SEKIYU K. K.) JIA, Qingxin; ○WAKI, Ichitaro (16:25~16:55)**1S1-14 Medium and Long-Term Program Lecture** Construction of artificial photosynthesis system by integration of molecular photocatalysts on solid surface (Toyota Central R&D Labs., Inc.) ○INAGAKI, Shinji (16:55~17:25)

(17 : 25~17 : 30)

1S1-15 Medium and Long-Term Program Lecture Closing Remarks (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (17:25~17:30)**Chemical design of exotic states of matter - quantum spin liquids**

Tuesday, March 19, AM

(9 : 30 ~ 9 : 35)

4S1-01# Special Program Lecture Introduction & challenges (Grad. Sch. Eng., Osaka Pref. Univ.) ○PRASSIDES, Kosmas (09:30~09:35)

Chair: PRASSIDES, Kosmas (9 : 35 ~ 11 : 02)

4S1-02# Special Program Lecture Identifying and understanding quantum spin liquid materials (RIIS, Okayama Univ.) ○JESCHKE, Harald (09:35~10:04)**4S1-03# Special Program Lecture** Exotic electronic states in and around quantum spin liquid based on Pd(dmit)₂ (Condensed Molecular Mat. Lab., RIKEN) ○KATO, Reizo (10:04~10:33)**4S1-04# Special Program Lecture** Quantum liquid of magnetic and electric dipoles in a proton-electron coupled molecular crystal (ISSP, The Univ. of Tokyo) ○MORI, Hatsumi (10:33~11:02)

Chair: MORI, Hatsumi (11 : 02~12 : 30)

4S1-05# Special Program Lecture Study on quantum spin states and spin liquids by organic radicals (Grad. Sch. Sci., Osaka Pref. Univ.) ○HOSOKOSHI, Yuko (11:02~11:31)**4S1-06# Special Program Lecture** Quantum Spin Liquid State in Organic Hyper-Kagome Lattice of Mott Dimers (Grad. Sch. Sci., Nagoya Univ.) ○AWAGA, Kunio (11:31~12:00)**4S1-07# Special Program Lecture** Quantum magnetism in fully-frustrated all-carbon π -electron systems (Grad. Sch. Eng., Osaka Pref. Univ.) ○PRASSIDES, Kosmas (12:00~12:30)**Novel organic devices utilizing quantum phases**

Tuesday, March 19, PM

Chair: WAKABAYASHI, Yusuke (13 : 30~14 : 45)

4S1-08 Special Program Lecture Development of electronic devices based on molecular materials with the use of quantum phases (CIMoS, IMS) ○YAMAMOTO, Hiroshi (13:30~13:55)**4S1-09 Special Program Lecture** Design of Functional Materials through controls of proton dynamics (FLEC, AIST) ○HORIUCHI, Sachio; ISHIBASHI, Shoji; KOBAYASHI, Kensuke; KUMAI, Reiji (13:55~14:25)**4S1-10 Special Program Lecture** Shift current photovoltaic effect in an organic charge transfer complex TTF-CA (RIKEN CEMS) ○NAKAMURA, Masao (14:25~14:45)

Chair: YAMAMOTO, Hiroshi (15 : 00~16 : 30)

4S1-11 Special Program Lecture Current injection organic semiconductor laser (Grad. Sch. Sci., Tohoku Univ.; WPI-AIMR, Tohoku Univ.) ○SHIMOTANI, Hidekazu; THANGAVEL, Kanagasakaran; ONUKI, Shun; MIURA, Taiki; TANIGAKI, Katsumi (15:00~15:30)**4S1-12 Special Program Lecture** Application of Quantum Coherent Control for Molecular Crystals (Grad. Sch. Sci. & Tech., NAIST) ○KATSUKI, Hiroyuki (15:30~16:00)**4S1-13 Special Program Lecture** Transition Moments and Circularly Polarized Luminescence of A Cylindrical Molecule (Grad. Sch. Sci., The Univ. of Tokyo) ○ISOBE, Hiroyuki (16:00~16:30)**Room S2**

Bldg. 1 141

Presence of Chemistry in Life Sciences

Saturday, March 16, AM

(9 : 30 ~ 9 : 35)

1S2-01 Medium and Long-Term Program Lecture Introduction (Grad. Sch. Life Sci., Tohoku Univ.) ○ARIMOTO, Hirokazu (09:30~

09:35)

Chair: ARIMOTO, Hirokazu (9 : 35 ~ 10 : 35)

1S2-02 Medium and Long-Term Program Lecture Synthesis of bio-functional molecules by middle molecular strategy (Grad. Sch. Sci., Osaka Univ.) ○FUKASE, Koichi (09:35~10:10)

1S2-03 Medium and Long-Term Program Lecture Middle Molecular Strategy: Synthesis, Biological Activity, and 3D Structure of Cyclic Peptides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○DOI, Takayuki (10:10~10:35)

Chair: KITA, Masaki (10 : 35~11 : 35)

1S2-04 Medium and Long-Term Program Lecture Frontier research on chemical communications unveils the mystery of life science. (Grad. Sch. Pharm. Sci., Kyoto Univ.) ○KAKEYA, Hideaki (10:35~11:10)

1S2-05 Medium and Long-Term Program Lecture Chemical communications that enable the production of secondary metabolites in marine sponges (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo; Kitasato Univ.; Hokkaido Univ.) ○MATSUNAGA, Shigeki; TAKADA, Kentaro; FUJITA, Masaki (11:10~11:35)

Chair: ARIMOTO, Hirokazu (11 : 35~12 : 05)

1S2-06 Medium and Long-Term Program Lecture Studies on plant hormone action by chemical and biological approaches (ICR, Kyoto Univ.) ○YAMAGUCHI, Shinjiro (11:35~12:05)

(12 : 05~12 : 10)

1S2-07 Medium and Long-Term Program Lecture Closing remarks (Grad. Sch. Bioagr. Sci., Nagoya Univ.) ○KITA, Masaki (12:05~12:10)

Radicaloid species: new chemistry opened up by fuzzy bonds

Saturday, March 16, PM

(13 : 30~13 : 40)

1S2-08 Medium and Long-Term Program Lecture Opening remarks (Grad. Sch. Sci., Osaka Univ.) ○KUBO, Takashi (13:30~13:40)

Chair: KUBO, Takashi (13 : 40~15 : 20)

1S2-09 Medium and Long-Term Program Lecture Creation of π -single bonding (C- π -C) species and its chemistry (Grad. Sch. Sci., Hiroshima Univ.) ○ABE, Manabu (13:40~14:05)

1S2-10 Medium and Long-Term Program Lecture hyper covalent bond: Chemistry of extreme covalent bonds (Fac. Sci., Hokkaido Univ.) ○SUZUKI, Takanori (14:05~14:30)

1S2-11 Medium and Long-Term Program Lecture Compounds with Si-Si Bonds Bearing Unusual Geometry (Grad. Sch. Sci., Tohoku Univ.) ○IWAMOTO, Takeaki (14:30~14:55)

1S2-12 Medium and Long-Term Program Lecture Radicalic Orbital and Intermediate State on Cleavage of C-C Bond by X-ray Electron Density Distribution Analysis (RIKEN CEMS) ○HASHIZUME, Daisuke (14:55~15:20)

Chair: IKEDA, Hiroshi (15 : 30~17 : 10)

1S2-13 Medium and Long-Term Program Lecture Theoretical study of the reaction pathway involving intersystem crossing (Inst. for Cat., Hokkaido Univ.) ○HASEGAWA, Jun-ya (15:30~15:55)

1S2-14 Medium and Long-Term Program Lecture Quantum design of novel photofunctional materials based on open-shell character: Nonlinear optical properties and singlet fission (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKANO, Masayoshi (15:55~16:20)

1S2-15 Medium and Long-Term Program Lecture Design of Functional Dynamic Covalent Polymers with Mechanochromic Property (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OTSUKA, Hideyuki (16:20~16:45)

1S2-16 Medium and Long-Term Program Lecture Controlled Synthesis of Hyperbranched Polymers Using a Stimuli Responsive Bond (ICR, Kyoto Univ.) ○YAMAGO, Shigeru (16:45~17:10)

(17 : 10~17 : 20)

1S2-17 Medium and Long-Term Program Lecture Closing Remarks (Grad. Sch. Eng., Osaka Pref. Univ.) ○IKEDA, Hiroshi (17:10~17:20)

Innovative Catalysts: C-H Bond Activation

Sunday, March 17, AM

Chair: NOZAKI, Kyoko (9 : 00 ~ 10 : 30)

2S2-01 Medium and Long-Term Program Lecture C-H Functionalization by Cooperative Metal Catalysis (Grad. Sch. Eng., Kyoto Univ.) ○NAKAO, Yoshiaki (09:00~09:30)

2S2-02 Medium and Long-Term Program Lecture Catalytic C(sp³)-H Bond Activation by Oxy-radical and Nitrene radical Complexes. (Grad. Sch. Eng., Osaka Univ.) ○ITOHO, Shinobu (09:30~10:00)

2S2-03 Medium and Long-Term Program Lecture Artificial Biocatalyst Responsible for Alkane Hydroxylation via Inert C-H Bond Activation (Grad. Sch. Eng., Osaka Univ.) ○HAYASHI, Takashi (10:00~10:30)

Chair: KITAGAWA, Hiroshi (10 : 30~12 : 00)

2S2-04 Medium and Long-Term Program Lecture Low-temperature oxidative coupling of methane over redox oxide catalysts in an electric field (PRESTO, JST; WISE) ○OGO, Shuhei (10:30~11:00)

2S2-05 Medium and Long-Term Program Lecture Selective Aerobic Oxidation of Hydrocarbons Catalyzed by Crystalline Mixed Oxides (IIR, Tokyo Tech.) ○KAMATA, Keigo (11:00~11:30)

2S2-06 Medium and Long-Term Program Lecture Orbital Principles of Methane Activation and Hydroxylation Mechanism (IMCE, Kyushu Univ.) ○YOSHIZAWA, Kazunari (11:30~12:00)

Frontier of Molecular Electronics and Molecular Spintronics

Sunday, March 17, PM

Chair: YAMADA, Teppei (13 : 30~15 : 45)

2S2-07 Medium and Long-Term Program Lecture Organic semiconductors: retro- and prospects (RIKEN CEMS; Grad. Sch. Sci., Tohoku Univ.) ○TAKIMIYA, Kazuo (13:30~14:15)

2S2-08 Medium and Long-Term Program Lecture Charge and spins in organic semiconductor crystals (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○TAKEYA, Jun-ichi (14:15~15:00)

2S2-09 Medium and Long-Term Program Lecture One-dimensional and two-dimensional metal complex polymers for molecular electronics (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIHARA, Horoshi (15:00~15:45)

Chair: HARANO, Koji (15 : 45~17 : 15)

2S2-10 Medium and Long-Term Program Lecture Carrier, spin and heat transport in single molecule junctions (Grad. Sch. Eng. Sci., Osaka Univ.) ○TADA, Hirokazu (15:45~16:30)

2S2-11 Medium and Long-Term Program Lecture Quantum Molecular Spintronics Based on Single-Molecule Magnets: Kondo Effects, Single-Molecular Memory, Spin Qubits, and Rabi Nutation (WPI-AIMR, Tohoku Univ.) ○YAMASHITA, Masahiro (16:30~17:15)

The development of diagnostic and therapeutic system by the combination of medical science and engineering

Tuesday, March 19, AM

(9 : 30 ~ 9 : 35)

4S2-01 Special Program Lecture Explanation of the purpose (Sch. Life Sci. Tech., Tokyo Tech.) ○OGURA, Shun-ichiro (09:30~09:35)

Chair: OGURA, Shun-ichiro (9 : 35 ~ 10 : 35)

4S2-02 Special Program Lecture Development of next-generation glycoconjugated photosensitizer for photodynamic therapy by collaboration between medicine and engineering (Kyousei Sci. Center for Life and Nature, Nara Women's Univ.) ○YANO, Shigenobu (09:35~10:05)

4S2-03 Special Program Lecture Photodynamic therapy for small animals with tumor (FATU) ○OSAKI, Tomohiro; ISHIZUKA, Masahiro; TANAKA, Tohru; SAKATA, Isao; BOMOTO, Akihiro; YANO, Shigenobu; KATAOKA, Hiromi; OKAMOTO, Yoshiharu (10:05~10:35)

Chair: UTO, Yoshihiro (10 : 35~11 : 30)

4S2-04 Special Program Lecture The various medical applications of 5-Aminolevulinic acid(ALA) through collaboration between industry, academia, medicine and industry (SBI Pharmaceuticals Co., Ltd.) ○TAKAHASHI, Kiwamu (10:35~11:00)

4S2-05 Special Program Lecture New strategy of medical care of cancer-Take advantage of the Warburg effect!- (Med. Sch., Kochi Univ.) ○INOUE, Keiji (11:00~11:30)

Chair: TAKAHASHI, Kiwamu (11 : 30~12 : 30)

4S2-06 Special Program Lecture Development of sonosensitizer and immunoactivator by medical-engineering cooperation (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○UTO, Yoshihiro; YAMADA, Hisatsugu; NAKAJIMA, Motowo; ISHIZUKA, Masahiro; TANAKA, Tohru; YAMANAKA, Nobuyasu; KURAHASHI, Tsukasa; KUBO, Kentaro; INUI, Toshio (11:30~12:00)

4S2-07 Special Program Lecture Development and application of new fluorescent probes for Fe(II) for studying the relationship between iron and diseases (Gifu Pharm. Univ.) ○HIRAYAMA, Tasuku (12:00~12:30)

New development of functional soft molecular crystals

Tuesday, March 19, PM

(13 : 30~13 : 40)

4S2-08 Special Program Lecture Introduction (Fac. Sci., Kyushu Univ.) ○ONDA, Ken; KATO, Masako (13:30~13:40)

Chair: ONDA, Ken (13 : 40~14 : 55)

4S2-09 Special Program Lecture Development of Soft Crystals Based on Mechanofluorochromism of D- π -A Fluorescent Dyes (Grad. Sch. Eng., Hiroshima Univ.) ○OOYAMA, Yousuke (13:40~14:05)

4S2-10 Special Program Lecture Chirality generation and control by crystal phase transition (Fac. Sci., Nara Women's Univ.) ○MATSUMOTO, Arimasa (14:05~14:30)

4S2-11 Special Program Lecture Birth and death of crystals and chirality transfer in the solid state during polymorphic transformation (RIST TUS) ○KURODA, Reiko (14:30~14:55)

Chair: ISHII, Kazuyuki (14 : 55~16 : 20)

4S2-12 Special Program Lecture Photo-induced phenomena on soft crystals observed by ultrafast time-resolved electron diffraction (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; TREMS, Univ. of Tsukuba) ○HADA, Masaki (14:55~15:20)

4S2-13 Special Program Lecture Elucidation of photofunctions in soft molecular crystals using time-resolved infrared spectroscopy (Fac. Sci., Kyushu Univ.) ○ONDA, Ken (15:20~15:45)

4S2-14 Special Program Lecture Thinking about Technologies of Crystal Calculation and Polymorphic Transition Analysis for Soft Crystals (TUT) ○GOTO, Hitoshi (15:45~16:10)

4S2-15 Special Program Lecture Utilization of Computational Chemistry Software for Elucidating the Functions of Molecules and Molecular Crystals (CONFLEX Corp.) ○NAKAYAMA, Naofumi (16:10~16:20)

Room S3

Bldg. 1 142

Sustainable chemical processes by innovative microwave technologies

Saturday, March 16, AM

(9 : 30 ~9 : 35)

1S3-01 Special Program Lecture Opening remarks (Grad. Sch. Eng., Tohoku Univ.) ○FUKUSHIMA, Jun (09:30~09:35)

Chair: FUKUSHIMA, Jun (9 : 35 ~10 : 55)

1S3-02 Special Program Lecture Microwave-induced Local High Temperature Areas in situ Observed for Controlling Chemical Reactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WADA, Yuji (09:35~09:55)

1S3-03 Special Program Lecture Materials processing under microwave non-equilibrium reaction field (Grad. Sch. Eng., Tohoku Univ.) ○TAKIZAWA, Hirotsugu (09:55~10:15)

1S3-04 Special Program Lecture Microwave Specific Effect: Application to Organic Reactions (Fac. Sci. Tech., Keio Univ.) ○YAMADA, Tohru (10:15~10:35)

1S3-05 Special Program Lecture Organic Transformation by Heterogeneous Catalyst under Microwave Irradiation (RIKEN CSRS) ○YAMADA, Yoichi (10:35~10:55)

Chair: TSUBAKI, Shuntaro (11 : 05~12 : 25)

1S3-06 Special Program Lecture Flow-type microwave assisted desktop plant (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MASE, Nobuyuki (11:05~11:25)

1S3-07 Special Program Lecture Development of new chemical process using compact solid state microwave generator (RCPT, AIST) ○NISHIOKA, Masateru (11:25~11:45)

1S3-08 Special Program Lecture Standardization of Microwave Chemical Process (Microwave Chemical Co., Ltd.) ○TSUKAHARA, Yasunori (11:45~12:05)

1S3-09 Special Program Lecture Design of Microwave Applicator - Spin off from Wireless power Transfer Technology - (RISH, Kyoto Univ.) ○SHINOHARA, Naoki (12:05~12:25)

(12 : 25~12 : 30)

1S3-10 Special Program Lecture Closing remarks (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUBAKI, Shuntaro (12:25~12:30)

Engine, molecular energy conversion, for motion and function

Saturday, March 16, PM

(13 : 30~13 : 35)

1S3-11# Special Program Lecture Opening Remarks (RCFM, NIMS) ○NAKANISHI, Waka (13:30~13:35)

Chair: KAKUGO, Akira (13 : 35~14 : 25)

1S3-12# Special Program Lecture Conformation control of molecules by mechanical energy at interfaces (RCFM, NIMS) ○NAKANISHI, Waka (13:35~13:55)

1S3-13# Special Program Lecture Crawling motion of crystals on solid surfaces by photoinduced crystal-to-melt phase transition (EPRI, AIST) ○NORIKANE, Yasuo (13:55~14:25)

Chair: SHISHIDO, Atsushi (14 : 25~15 : 25)

1S3-14# Special Program Lecture Emergence of autonomous functions through hierarchical integration of molecular engines (Fac. Sci., Hokkaido Univ.) ○KAKUGO, Akira (14:25~14:55)

1S3-15# Special Program Lecture Unique dynamics of self-assemblies induced by chemical reactions (Fac. Sci. Tech., Keio Univ.) ○BANNO, Taisuke (14:55~15:25)

Chair: UENO, Takafumi (15 : 25~16 : 25)

1S3-16# Special Program Lecture Interfacial instability induced by aggregate formation-experimental model for amoeboid motion (Fac. Sci., TUS) ○SUMINO, Yutaka (15:25~15:55)

1S3-17# Special Program Lecture Two-dimensional self-assembly patterning by scanning wave photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.) ○SHISHIDO, Atsushi (15:55~16:25)

(16 : 25~16 : 30)

1S3-18# Special Program Lecture Closing Remarks (Sch. Life Sci. Tech., Tokyo Tech.) ○UENO, Takafumi (16:25~16:30)

Systemic Catalytic Science

Tuesday, March 19, AM

(9 : 30 ~9 : 40)

4S3-01# Special Program Lecture Opening remarks (Grad. Sch. Pharm., The Univ. of Tokyo) ○KANAI, Motomu (09:30~09:40)

Chair: ISHIDA, Naoki (9 : 40 ~11 : 10)

4S3-02# Special Program Lecture C(sp³)-H Bond Functionalization Mediated by Hydride Shift/Cyclization System (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MORI, Keiji (09:40~10:10)

4S3-03# Special Program Lecture Regio- and Stereo-controlled Ring-Opening Cross-Coupling of Aziridines Enabled by Pd Catalysis (Grad. Sch. Eng., Osaka Univ.) ○TAKEDA, Youhei (10:10~10:40)

4S3-04# Special Program Lecture Development of photochemical reactions using carbazole architecture (Grad. Sch. Sci., Kobe Univ.) ○MATSUBARA, Ryousuke (10:40~11:10)

Chair: KANAI, Motomu (11 : 20~12 : 20)

4S3-05# Special Program Lecture Photo/Metal Hybrid Catalysis for C-H Carboxylation with CO₂ (Grad. Sch. Eng., Kyoto Univ.) ○ISHIDA, Naoki (11:20~11:50)

4S3-06# Special Program Lecture Catalyst Design toward Selective Dearomatic Functionalizations (Fac. Sci. Eng., Waseda Univ.) ○MUTO, Kei (11:50~12:20)

(12 : 20~12 : 30)

4S3-07# Special Program Lecture Closing remarks (Grad. Sch. Pharm., The Univ. of Tokyo) ○KANAI, Motomu (12:20~12:30)

Design of the molecular residence by creating new functional molecule

Tuesday, March 19, PM

(13 : 30~13 : 35)

4S3-08 Special Program Lecture Introduction (Molprof, AIST) ○HIROKAWA, Takatsugu (13:30~13:35)

Chair: TAKAYAMA, Masami (13 : 35~14 : 35)

4S3-09 Special Program Lecture Discovery of novel PPAR gamma ligands based on the steric restriction of tricyclic core structure by the side chain. (Kyowa HAKKO Kirin Co., Ltd.) ○YAMAMOTO, Keisuke; TAMURA, Tomohiro; NAKAMURA, Rina; MATSUBARA, Masahiro; NAKAJIMA, Kenta; NAGATA, Keiko; SUZUKI, Michihiko; SAITO, Jun-ichi; KODAIRA, Hiroshi; TAHARA, Harunobu; UEMORI, Takeshi; UENO,

Kimihisa; SHUTO, Satoshi (13:35~14:10)

4S3-10 Special Program Lecture Development of a near-infrared fluorescence probe for detecting folate receptors by controlling molecular residence times (Grad. Sch. Pharm., The Univ. of Tokyo) ○HANAOKA, Kenjiro (14:10~14:35)

Chair: ARISAWA, Mitsuhiro (14 : 35~15 : 25)

4S3-11 Special Program Lecture Search for residence compounds by communication between Wet and Dry (Grad. Sch. Tech. Mgmt., Ritsumeikan Univ.; Grad. Sch. Pharm., Hokkaido Univ.) ○KODAMA, Kota; SAIO, Tomohide; FUKUHARA, Hideo; OTSUGURO, Satoko; NIIZUMA, Sayaka; MATSUMARU, Takanori; IGARASHI, Manabu; MAENAKA, Katsumi (14:35~15:00)

4S3-12 Special Program Lecture Molecular simulations for the molecular residence with the structural biology data (Molprof, AIST) ○HIROKAWA, Takatsugu (15:00~15:25)

Chair: HIROKAWA, Takatsugu (15 : 25~16 : 25)

4S3-13 Special Program Lecture Preparation of Metal Nano-particle Catalysts Using "In situ Metal Nanoparticle and Nanospace Simultaneous Organization (PSSO) method"; toward Functional Molecular Synthesis (Sch. Pharm., Osaka Univ.) ○ARISAWA, Mitsuhiro (15:25~15:50)

4S3-14 Special Program Lecture Discovery of an Anti-Influenza Agent with a Novel Mechanism (Shionogi & Co., Ltd.) ○KAWAI, Makoto (15:50~16:25)

(16 : 25~16 : 30)

4S3-15 Special Program Lecture Summary (Shionogi & Co., Ltd.) ○TAKAYAMA, Masami (16:25~16:30)

Room S4

Bldg. 5 511

Sustainable and Functional Redox Chemistry Contributing to SDGs

Saturday, March 16, AM

(9 : 30 ~9 : 35)

1S4-01 Special Program Lecture Opening Remarks (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INAGI, Shinsuke (09:30~09:35)

Chair: OKADA, Yohei (9 : 35 ~10 : 25)

1S4-02 Special Program Lecture Self-doped Conducting Polymers Bearing Phosphonic Acid Moiety (Grad. Sch. Eng., Osaka Univ.) ○AMAYA, Toru (09:35~10:00)

1S4-03 Special Program Lecture Redox reactions triggered by photo-induced electron transfer of organic molecules (Grad. Sch. Eng., Univ. of Fukui) ○YOSHIMI, Yasuharu (10:00~10:25)

Chair: OYAYAMA, Yousuke (10 : 25~11 : 15)

1S4-04 Special Program Lecture Organic long-persistent luminescence system based on intermolecular charge transfer (OPERA, Kyushu Univ.) ○KABE, Ryota (10:25~10:50)

1S4-05 Special Program Lecture Molecular-Based Dye-Sensitized Photoelectrochemical Cells for Solar Water Splitting (Fac. Sci., Kyushu Univ.) ○OZAWA, Hironobu (10:50~11:15)

Chair: ATOBE, Mahito (11 : 15~12 : 25)

1S4-06 Special Program Lecture Redox tunable micropore property of molybdenum-vanadium oxide (Grad. Sch. Eng., Hiroshima Univ.; Dept. of Material & Life Chem., Kanagawa Univ.) ○SADAKANE, Masahiro; UEDA, Wataru (11:15~11:45)

1S4-07 Special Program Lecture Synthesis and Electronic Functions of π -Conjugated Polymers with Inter-element Communications (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TOMITA, Ikuoyoshi (11:45~12:25)

CSJ Public Lecture

Saturday, March 16, PM

Chair: KIDA, Toshiyuki (13 : 30~14 : 20)

1S4-08 CSJ Public Lecture Keep your impression clean -Suppression of the body odor- (Mandom Corp.) ○TSUBAKIHARA, Misao (13:30~14:20)

Chair: KITAGISHI, Hiroaki (14 : 20~15 : 10)

1S4-09 CSJ Public Lecture Frontline for neonatal medicine (Sch. Med., Nihon Univ.) ○MORIOKA, Ichiro (14:20~15:10)

Chair: KATAGIRI, Kousuke (15 : 20~16 : 10)

1S4-10 CSJ Public Lecture The latest health management by science of the human movement (ASICS Corp.) ○HARANO, Ken-ichi (15:20~16:10)

Chair: HAYASHI, Takashi (16 : 10~17 : 00)

1S4-11 CSJ Public Lecture Literature and Chemistry World of Kenji Miyazawa (Kyoto Pharm. Univ.) ○SAKURAI, Hiromu (16:10~17:00)

CSJ Award Presentation

Sunday, March 17, AM

Chair: OHE, Kouichi (10 : 00~11 : 00)

2S4-01[#] CSJ Award Presentation Development of Novel and Environmentally Benign Methodologies for Organic Synthesis (Grad. Sch. Sci., The Univ. of Tokyo) ○KOBAYASHI, Shu (10:00~11:00)

Chair: MIYASAKA, Tsutomu (11 : 20~12 : 20)

2S4-02[#] CSJ Award Presentation Development of Glass-Based Inorganic Solid Electrolytes for All-Solid-State Secondary Batteries (Grad. Sch. Eng., Osaka Pref. Univ.) ○TATSUMISAGO, Masahiro (11:20~12:20)

Special Lecture

Sunday, March 17, PM

Chair: HAYASHI, Yujiro (13 : 00~13 : 50)

2S4-03[#] Special Lecture New Adventures in Amino-Cope Chemistry (Univ. of Arizona) DAS, Pradipta; QURESHI, Haziq; DELOST, Michael; CHOGIL, Isaac; ○NJARDARSON, Jon T. (13:00~13:50)

Chair: KOMATSU, Naoki (14 : 00~14 : 50)

2S4-04[#] Special Lecture Controlled multifunctionalisation of carbon nanomaterials (CNRS) ○BIANCO, Alberto (14:00~14:50)

Nano scale molecular science toward single molecular technology

Tuesday, March 19, AM

(9 : 30 ~9 : 35)

4S4-01 Special Program Lecture Introductory Talk (ISIR, Osaka Univ.) ○TANIGUCHI, Masateru (09:30~09:35)

Chair: KIGUCHI, Manabu (9 : 35 ~10 : 55)

4S4-02 Special Program Lecture Investigation of action mechanism of an anticancer drug using single molecule measurement (ISIR, Osaka Univ.; CREST, JST) ○TANIGUCHI, Masateru (09:35~09:55)

4S4-03 Special Program Lecture Synthesis of Unimolecular Functionalized Materials with Rotaxane Structure (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TERAO, Jun (09:55~10:15)

4S4-04 Special Program Lecture Development of π -Conjugated Systems Having Fluorine-Containing Electron-Accepting Units for Organic Photovoltaics (ISIR, Osaka Univ.) ○IE, Yutaka (10:15~10:35)

4S4-05 Special Program Lecture Theoretical study on electron tunneling on moderately localized molecular orbitals (MCES, Tokyo Tech.) ○TADA, Tomofumi (10:35~10:55)

Chair: TANIGUCHI, Masateru (11 : 05~12 : 25)

4S4-06 Special Program Lecture Single-molecule measurement of triplet state with STM (RIKEN SISEL) ○KIM, Yousoo (11:05~11:25)

4S4-07 Special Program Lecture Chemistry of emerging electronic devices (CD-FMat, AIST) ○NAKAMURA, Hisao (11:25~11:45)

4S4-08 Special Program Lecture Studies on electronic and adsorption structure from current-voltage characteristics (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMADA, Ryo; OHTO, Ohto; HELEN, Stewart; INOUE, Takuya; NUMAI, Yuichi; IE, Yutaka; ASO, Yoshio; TADA, Hirokazu (11:45~12:05)

4S4-09 Special Program Lecture SERS study on single molecule junction (Sch. Sci., Tokyo Tech.) ○KIGUCHI, Manabu (12:05~12:25)

(12 : 25~12 : 30)

4S4-10 Special Program Lecture Summary (Grad. Sch. Sci., Eng., Tokyo Tech.) ○KIGUCHI, Manabu (12:25~12:30)

New approaches in nucleic acid analysis and functionalization

Tuesday, March 19, PM

(13 : 30~13 : 35)

4S4-11 Special Program Lecture Opening remarks (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YOSHIMOTO, Keitaro (13:30~13:35)

Chair: YOSHIMOTO, Keitaro (13 : 35~14 : 25)

- 4S4-12 Special Program Lecture** Design of fluorescent probes targeting higher-ordered RNA structures (Grad. Sch. Sci., Tohoku Univ.)
○SATO, Yusuke (13:35~14:00)
- 4S4-13 Special Program Lecture** Quantitative analysis of nucleic acid structures under multimolecular crowding conditions toward molecularly-targeted photodynamic therapy for RNA G-quadruplexes (FIRST, Konan Univ.) ○MIYOSHI, Daisuke (14:00~14:25)

Chair: MAEDA, Mizuo (14 : 35~15 : 25)

- 4S4-14 Special Program Lecture** Oligonucleotide-based growth factor mimetics ~Applications in regenerative medicines and repurposing as chemical tools for regulation of receptor signaling~ (Grad. Sch. Eng., The Univ. of Tokyo) ○UEKI, Ryosuke (14:35~15:00)
- 4S4-15 Special Program Lecture** Functional modulation of nucleic acids by their global conformational control (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○IHARA, Toshihiro (15:00~15:25)

Chair: SATO, Moritoshi (15 : 35~16 : 25)

- 4S4-16 Special Program Lecture** Regulation of anti-coagulate activity of thrombin-binding DNA aptamers discovered by MACE/NGS-SELEX (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YOSHIMOTO, Keitaro (15:35~16:00)
- 4S4-17 Special Program Lecture** Electrophoretic selection of aptamer pairs for design of multivalent aptamers (Grad. Sch. Sci., Eng., Saitama Univ.) ○SAITO, Shingo (16:00~16:25)

(16 : 25~16 : 30)

- 4S4-18 Special Program Lecture** concluding remarks (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SATO, Moritoshi (16:25~16:30)

Room S5
Bldg. 5 521

Assembling Molecules, and Counting Molecular Numbers -Functional Assembly of Softmaterials Using Molecular Statistical Chemistry-
Saturday, March 16, AM

(9 : 40 ~9 : 45)

- 1S5-01 Special Program Lecture** Introduction to the Project (Faculty of Science and Technology) ○NISHIYAMA, Katsura (09:40~09:45)

Chair: NISHIYAMA, Katsura (9 : 45 ~11 : 00)

- 1S5-02 Special Program Lecture** Solvent effects on thermodynamic stability of protein (RIIS, Okayama Univ.) ○SUMI, Tomonari; KOGA, Kenichiro (09:45~10:10)
- 1S5-03 Special Program Lecture** Mixing state and phase separation of ionic liquids and molecular liquids on microscopic scale (Fac. Sci. Eng., Saga Univ.) ○TAKAMUKU, Toshiyuki (10:10~10:35)
- 1S5-04 Special Program Lecture** Synthesis and Application for Devices of Semiconductor Nanoparticles (KRI, Inc.) ○ARAKI, Keiichi (10:35~11:00)

Chair: TAKAMUKU, Toshiyuki (11 : 10~12 : 25)

- 1S5-05 Special Program Lecture** Dynamics of glycine solution in mesoporous silica investigated by quasi-elastic neutron scattering (Fac. Sci., Fukuoka Univ.) ○YOSHIDA, Koji (11:10~11:35)
- 1S5-06 Special Program Lecture** Statistical mechanics study of biomolecular functions induced by water and ions (Fac. Sci., Kyushu Univ.) ○YOSHIDA, Norio (11:35~12:00)
- 1S5-07 Special Program Lecture** Softmaterials Design Coupled with Self-assembly and "Molecular Statistics Chemistry" (Faculty of Science and Technology) ○NISHIYAMA, Katsura (12:00~12:25)

Challenge to construct the science of dispersion and aggregation

Tuesday, March 19, AM

(9 : 30 ~9 : 35)

- 4S5-01 Special Program Lecture** Introduction (Takeda Colloid Techno-Consulting Co., Ltd.) ○TAKEDA, Shin-ichi (09:30~09:35)

Chair: KAWASAKI, Hideya (9 : 35 ~10 : 05)

- 4S5-02 Special Program Lecture** Development of Statistical Fine Particle Dispersion Model (Grad. Sch. Eng., Kobe Univ.) ○SUZUKI, Hiroshi (09:35~10:05)

Chair: KOBAYASHI, Motoyoshi (10 : 05~10 : 35)

- 4S5-03 Special Program Lecture** Change of a layer structure of colloidal particles near a substrate induced by addition of non-adsorbing polymers (Grad. Sch. Eng., Kyoto Univ.) ○AMANO, Ken-ichi (10:05~10:35)

Chair: FUJII, Syuji (10 : 35~11 : 05)

- 4S5-04 Special Program Lecture** Convective Self-Assembly and In-situ Measurement of Interaction Forces between Colloidal Particles in Binary System (Grad. Sch. Eng., Kyoto Univ.) ○WATANABE, Satoshi; ARAI, Nozomi; MIYAHARA, Minoru (10:35~11:05)

Chair: TAKEDA, Shin-ichi (11 : 05~11 : 35)

- 4S5-05 Special Program Lecture** Rheology and Microstructure of Concentrated Monodispersed Colloidal Dispersion (Toyota Central R&D Labs., Inc.) ○NAKAMURA, Hiroshi (11:05~11:35)

Chair: ISHIDA, Naoyuki (11 : 35~12 : 30)

- 4S5-06 Special Program Lecture** Direct numerical simulation of colloidal dispersions: Beyond DLVO (Grad. Sch. Eng., Kyoto Univ.) SHIH, Chunyu; John J. Molina; ○YAMAMOTO, Ryoichi (11:35~12:05)

Chair: YONEZAWA, Tetsu (12 : 05~12 : 30)

- 4S5-07 Special Program Lecture** Advanced dispersion techniques using high speed mixing systems (PRIMIX Corp.) ○TAKAHASHI, Tadahito (12:05~12:30)

Rational Design and Synthesis of Circularly Polarized Luminescent Dyes

Tuesday, March 19, PM

(13 : 30~13 : 35)

- 4S5-08 Special Program Lecture** Introduction (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○TSUBAKI, Kazunori (13:30~13:35)

Chair: TSUBAKI, Kazunori (13 : 35~14 : 50)

- 4S5-09 Special Program Lecture** Control of Chiroptical Properties by Designing Molecular Structures and Molecular Orbitals (Grad. Sch. Eng., Kyoto Univ.) ○MATSUDA, Kenji (13:35~14:00)
- 4S5-10 Special Program Lecture** Chiroptical Properties of Naphthalene Oligomers (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TAKAISHI, Kazuto (14:00~14:25)
- 4S5-11 Special Program Lecture** Synthesis and chiroptical properties of stereogenic π -conjugated macrocycles (Grad. Sch. Sci., Kitasato Univ.) ○HASEGAWA, Masashi (14:25~14:50)

Chair: NAGAMORI, Koushi (14 : 50~15 : 40)

- 4S5-12 Special Program Lecture** Exotic Physical Properties Induced by Pai-Expanded Biaryls (Grad. Sch. Sci., TMU) ○SUGIURA, Ken-ichi (14:50~15:15)
- 4S5-13 Special Program Lecture** Resonance CPL spectroscopy of μ m-size chiral particles in a tuned media (Grad. Sch. Mat. Sci., NAIST) ○FUJIKI, Michiya (15:15~15:40)

Chair: SUGIURA, Ken-ichi (15 : 40~16 : 30)

- 4S5-14 Special Program Lecture** Non-classical control of circularly polarized luminescence (CPL) based on precise chiral space control (Fac. Sci. Eng., Kindai Univ.) ○IMAI, Yoshitane (15:40~16:05)
- 4S5-15 Special Program Lecture** Development of organic light emitting device based on chiral PDI derivatives (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○NISHIKAWA, Hiroyuki (16:05~16:30)

Room S6
Bldg. 5 522

Application of High-energy Processing in Liquid

Saturday, March 16, AM

(9 : 30 ~9 : 35)

- 1S6-01 Special Program Lecture** Introduction (Grad. Sch. Sci., Osaka City Univ.) ○YATSUHASHI, Tomoyuki (09:30~09:35)

Chair: ISHIKAWA, Yoshie (9 : 35 ~11 : 05)

- 1S6-02 Special Program Lecture** Preparation and investigation of the formation mechanism of submicrometer-sized gold particles using laser melting in liquids (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.; Grad. Sch. Eng., Hokkaido Univ.; NRI, AIST) ○TSUJI, Takeshi; SAKAKI, Shota; ISHIKAWA, Yoshie; KOSHIZAKI, Naoto (09:35~10:00)
- 1S6-03 Special Program Lecture** Adhesion system utilizing near-in-

frared laser light (ADEKA Corp.) ○YAMADA, Shinsuke; OGAWA, Ryo (10:00~10:25)

1S6-04 Special Program Lecture Preparation of Drug Nanoparticles by Laser Ablation in Liquid (Department of Applied Chemistry; Grad. Sch. Mat. Sci., NAIIST) ○SUGIYAMA, Teruki (10:25~10:45)

1S6-05 Special Program Lecture Characteristics of metal and alloy nanoparticles fabricated by laser-induced nucleation method (IMRAM, Tohoku Univ.; Grad. Sch. Eng., Tohoku Univ.) KURODA, Rikuto; ○NAKAMURA, Takahiro; NAKAGAWA, Masaru (10:45~11:05)

Chair: SAEKI, Morihisa (11:20~12:30)

1S6-06 Special Program Lecture Enhancement of Molecular Emission in Laser-Induced Plasma and Microanalysis of Liquid Using Surface Microstructures (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUMOTO, Ayumu; YAE, Shinji (11:20~11:45)

1S6-07 Special Program Lecture Microwave induced plasma in liquid: The improvement for industrial application (ARIOS Inc.) ○MORI, Kunihiko; ARIYADA, Osamu (11:45~12:10)

1S6-08 Special Program Lecture Preparation of nanoparticles by laser ablation in liquid and optical properties (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WADA, Hiroyuki (12:10~12:30)

Structural Construction and Functionalization of Ionic 2-dimensional Nano-Materials

Tuesday, March 19, AM

(9:30~9:35)

4S6-01 Special Program Lecture Introduction (Grad. Sch. Eng., KIT) ○NAKATO, Teruyuki (09:30~09:35)

Chair: OKADA, Tomohiko (9:35~10:50)

4S6-02 Special Program Lecture Nanocrystallization of Layered double hydroxide for the Exploration of Highly-Reactive Surfaces (Grad. Sch. Eng., Osaka Pref. Univ.) ○TOKUDOME, Yasuaki; OKADA, Kenji; TAKAHASHI, Masahide (09:35~10:00)

4S6-03 Special Program Lecture Why are carbonate anions stable in the interlayer space of layered double hydroxide? (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○SASAI, Ryo (10:00~10:25)

4S6-04 Special Program Lecture Application of LDHs to Materials for Electrochemical Devices (Grad. Sch. Eng., Hokkaido Univ.) ○TADANAGA, Kiyoharu (10:25~10:50)

Chair: FUJIMURA, Takuya (11:05~12:20)

4S6-05 Special Program Lecture Design of high-performance heterogeneous catalyst in aqueous conditions by use of anion-exchangeable layered rare-earth hydroxides (Grad. Sch. Eng., Chiba Univ.) ○HARA, Takayoshi (11:05~11:30)

4S6-06 Special Program Lecture Synthesis of metal nanoparticles and their unique optical response within the two-dimensional ionic fields (Grad. Sch. Sci. and Technol., Niigata Univ.) ○YUI, Tatsuto (11:30~11:55)

4S6-07 Special Program Lecture Synergistic functions of hybrid materials composed of inorganic nanosheets and enzymes (Grad. Sch. Eng., Nagasaki Univ.) ○KAMADA, Kai (11:55~12:20)

(12:20~12:30)

4S6-08 Special Program Lecture Closing remarks (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○SASAI, Ryo (12:20~12:30)

Room S8

Bldg. 8 813

Luminescence Chemistry Ensemble: Exploring the Future of Luminescence

Saturday, March 16, AM

(9:30~9:45)

1S8-01 Special Program Lecture Opening Remark: Luminescence Chemistry Ensemble –Exploring the Future of Luminescence– (Grad. Sch. Sci., Kitasato Univ.) ○ISHIDA, Hitoshi (09:30~09:45)

Chair: KIYONAKA, Shigeki (9:45~10:15)

1S8-02 Special Program Lecture Chemical biology created by bioluminescence (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAWA, Takeaki (09:45~10:15)

Chair: HASEGAWA, Miki (10:15~10:40)

1S8-03 Special Program Lecture Development of super-photostable fluorescent dyes based on the design of novel fluorophore skeleton and the

studies on the photodecomposition pathways (WPI-iCeMS, Kyoto Univ.) ○FUKAZAWA, Aiko (10:15~10:40)

Chair: TSUGE, Kiyoshi (10:40~11:05)

1S8-04 Special Program Lecture Luminescent Lanthanide Assemblies and their Functions (Fac. Sci., TUS) ○YUASA, Junpei (10:40~11:05)

Chair: KUSAMOTO, Tetsuro (11:05~11:30)

1S8-05 Special Program Lecture Analysis of radiative and vibration-based nonradiative processes from triplet state for efficient persistent room-temperature phosphorescence (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○HIRATA, Shuzo (11:05~11:30)

Chair: YAMAMOTO, Norifumi (11:30~11:55)

1S8-06 Special Program Lecture Theoretical Study on Photoreactivity and Phosphorescence Capabilities: Reaction Path Search of Nonradiative Decay (Fac. Sci., Hokkaido Univ.) ○SAITA, Kenichiro (11:30~11:55)

Chair: SUGIMOTO, Naoki (11:55~12:25)

1S8-07 Special Program Lecture Luminescence Chemistry for Future Society (Grad. Sch. Eng., Nagoya Univ.) ○BABA, Yoshinobu (11:55~12:25)

(12:25~12:30)

1S8-08 Special Program Lecture Closing mark (UNISOKU Co., Ltd.) ○NAKAGAWA, Tatsuo (12:25~12:30)

Innovation and future of Kakenhi

Saturday, March 16, PM

(13:30~13:40)

1S8-09 Special Program Lecture Introduction (Fac. Sci., Gakushuin Univ.) ○AKIYAMA, Takahiko (13:30~13:40)

Chair: AKIYAMA, Takahiko (13:40~14:50)

1S8-10 Special Program Lecture Trends in Reform of the KAKENHI System (RIEC, Tohoku Univ.) ○OTSUJI, Taiichi (13:40~14:15)

1S8-11 Special Program Lecture Writing a proposal of Kakenhi in the field of Chemistry (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TAKAI, Kazuhiko (14:15~14:50)

Chair: KIMIZUKA, Nobuo (14:50~16:30)

1S8-12 Special Program Lecture Current financial conditions of national universities in Japan (Nagoya Univ.) ○WATANABE, Yoshito (14:50~15:25)

1S8-13 Special Program Lecture Importance of basic research and its value in private companies (MEIDENSHA CORP.) ○KYOTO, Michihisa (15:25~16:00)

1S8-14 Special Program Lecture Current state of the KAKENHI (Grants in Aid for Scientific Research) (MEXT) ○MATSUMOTO, Masami (16:00~16:30)

Precise organic synthesis and functional materials based on molecular space

Tuesday, March 19, AM

(9:30~9:35)

4S8-01[#] Special Program Lecture Introduction (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○SHIRAKAWA, Seiji (09:30~09:35)

Chair: TAKASHIMA, Yoshinori (9:35~10:20)

4S8-02[#] Special Program Lecture Design of chiral organosulfur catalysts (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○SHIRAKAWA, Seiji (09:35~09:50)

4S8-03[#] Special Program Lecture Dynamic molecular space for reaction control (Dept. Industrial Chem., TUS) ○IMAHORI, Tatsushi (09:50~10:05)

4S8-04[#] Special Program Lecture Pillar[n]arene-based molecular porous materials (NanoLSI, Kanazawa Univ.) ○OGOSHI, Tomoki (10:05~10:20)

Chair: IMAHORI, Tatsushi (10:30~11:15)

4S8-05[#] Special Program Lecture Chemistry empowered by unique heterocycles (IMC) ○KUMAGAI, Naoya (10:30~10:45)

4S8-06[#] Special Program Lecture Strategies to control chiral environments constructed by molecular catalysts and enzymes (RIKEN CPR) ○SOHTOME, Yoshihiro (10:45~11:00)

4S8-07[#] Special Program Lecture Elucidation of the mechanism of the solvent-dependent helix inversion of poly(quinoxaline-2,3-diyl)s (Grad. Sch. Eng., Kyoto Univ.) ○NAGATA, Yuuya (11:00~11:15)

Chair: SOHTOME, Yoshihiro (11:30~12:30)

- 4S8-08[#] Special Program Lecture** Creation of functional photostimuli responsive supramolecular materials based on host-guest interactions (IACS, Osaka Univ.) ○TAKASHIMA, Yoshinori (11:30~11:45)
- 4S8-09[#] Special Program Lecture** Aniline-type biaryl catalysts for regio-, stereo-, and substrate-selective transformations (Kyoto Pharm. Univ.) ○FURUTA, Takumi (11:45~12:00)
- 4S8-10[#] Special Program Lecture** Functionalization of crystals by using peptide metal complexes (Fac. Core Res., Ochanomizu Univ.; PRESTO, JST) ○MIYAKE, Ryosuke (12:00~12:15)
- 4S8-11[#] Special Program Lecture** Aromatic stacks and skeletal transformations of partially-fluorinated helicenes (Fac. Sci., Yamagata Univ.) ○MURASE, Takashi (12:15~12:30)

Integrated p-Block Chemistry for Materials Function

Tuesday, March 19, PM

(13:30~13:35)

- 4S8-12 Special Program Lecture** Opening remarks (Grad. Sch. Sci., Tohoku Univ.) ○IWAMOTO, Takeaki (13:30~13:35)

Chair: IWAMOTO, Takeaki (13:35~14:30)

- 4S8-13 Special Program Lecture** New Reaction through a simultaneous use of vacant and filled orbitals in group 13 element compound (Grad. Sch. Eng., Nagoya Univ.) ○YAMASHITA, Makoto (13:35~14:00)
- 4S8-14 Special Program Lecture** Reactions utilizing high-energy sulfonium cations (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YORIMITSU, Hideki (14:00~14:25)
- 4S8-15 Special Program Lecture** Control of crystal structures of organic semiconductors by p-block functional groups (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○TAKIMIYA, Kazuo (14:25~14:50)

Chair: YAMAGUCHI, Shigeiro (15:00~16:15)

- 4S8-16 Special Program Lecture** Development of Photoelectric Materials Using p-Block Elements (ICR, Kyoto Univ.) ○WAKAMIYA, Atsushi (15:00~15:25)
- 4S8-17 Special Program Lecture** Innovative bio-imaging technologies with phosphorus-containing fluorescent dyes (WPI-ITbM, Nagoya Univ.) ○TAKI, Masayasu (15:25~15:50)
- 4S8-18 Special Program Lecture** Understanding Reaction Mechanisms through Reaction Path Network (Fac. Sci., Hokkaido Univ.) ○MAEDA, Satoshi (15:50~16:15)

(16:15~16:20)

- 4S8-19 Special Program Lecture** Closing remarks (Sch. Sci., Tokyo Tech.) ○GOTO, Kei (16:15~16:20)

Room S9

Koyu Hall Hall

CSJ Award Presentation

Saturday, March 16, AM

Chair: KUWANO, Ryoichi (11:00~12:00)

- 1S9-01[#] CSJ Award Presentation** Design and Synthesis of New Organometallic Complexes for Novel Chemical Transformations (RIKEN CSRS) ○HOU, Zhaomin (11:00~12:00)

Saturday, March 16, PM

Chair: SAITO, Shinji (13:00~14:00)

- 1S9-02[#] CSJ Award Presentation** Development of novel functional phase-transition materials based on solid state thermodynamics (Grad. Sch. Sci., The Univ. of Tokyo) ○OHKOSHI, Shin-ichi (13:00~14:00)

Chair: MATSUE, Tomokazu (14:30~15:30)

- 1S9-03[#] CSJ Award Presentation** Pioneering of Nanofluidics (Grad. Sch. Eng., The Univ. of Tokyo) ○KITAMORI, Takehiko (14:30~15:30)

Tuesday, March 19, AM

Chair: SUGIYAMA, Hiroshi (11:00~12:00)

- 4S9-01[#] CSJ Award Presentation** Structure/Function Study of Photoreceptive Proteins by FTIR Spectroscopy (Grad. Sch. Eng., Nagoya Inst. of Tech.; OBTRC, Nagoya Inst. of Tech.) ○KANDORI, Hideki (11:00~12:00)

Room A1

Bldg. 1 121

Infrastructure technology to support the Society

Saturday, March 16, AM

Actuator and sensor materials for soft robots in IoT/AI society

(10:20~10:30)

- 1A1-09 Opening Remarks / Closing Remarks** Opening Remark (IFMRI, AIST) ○ASAKA, Kinji (10:20~10:30)

Chair: ASAKA, Kinji (10:30~12:00)

- 1A1-10 ATP Keynote Lecture** Actuator and Sensor Technologies Supporting IoT & AI Society (Grad. Sch. Info. Sci., Nagoya Univ.) ○OHKA, Masahiro; KOMURA, Hiraku (10:30~11:20)
- 1A1-15 ATP Special Invited Lecture** Fiber-, woven fabric-, braided cord- and embroidered material-type piezoelectric sensors using chiral polymer exhibiting large piezoelectricity (Fac. Eng. Sci., Kansai Univ.) ○TAJITSU, Yoshiro (11:20~12:00)

Saturday, March 16, PM

(13:30~14:30)

- 1A1-28 ATP Special Invited Lecture** Development of a PVC gel actuator and its application to soft robots (Fac. Textile Sci. Technol., Shinshu Univ.) ○HASHIMOTO, Minoru (13:30~14:10)
- 1A1-32 ATP Special Invited Lecture** Trend around Robotics and its supporting technologies (NEDO TSC) ○TAKAHASHI, Nobuaki; YAMAMOTO, Tomoyuki; HIRAI, Shigeoki (14:10~14:50)

(14:50~15:00)

- 1A1-36 ATP Incubation Time** (14:50~15:00)

Chair: YAMAMOTO, Masahiro (15:00~16:00)

- 1A1-37 ATP Invited Lecture** Origami Hand Constructed from One Sheet of Paper (TMCIT) ○FUKAYA, Naoki (15:00~15:30)
- 1A1-40 ATP Invited Lecture** The application of e-Rubber (Dielectric actuators and sensors) (TOYODA GOSEI Co., Ltd.) ○TAKEUCHI, Hiromiotsu (15:30~16:00)

(16:00~16:10)

- 1A1-43 ATP Incubation Time** (16:00~16:10)

Chair: IINO, Hiroaki (16:10~17:10)

- 1A1-44 ATP Invited Lecture** Extremely small volume, light-weight and quiet fiber actuator made of polymer filament (Lintec Corp.) ○KAWAHARA, Jun; OHRUI, Tomoo; KONDO, Takeshi (16:10~16:40)
- 1A1-47 ATP Invited Lecture** Ionic Polymer Actuators (IFMRI, AIST) ○ASAKA, Kinji (16:40~17:10)

Sunday, March 17, AM

Chemical synthesis based on informatics

(9:30~9:40)

- 2A1-04 Opening Remarks / Closing Remarks** Opening Remarks (IRC3, AIST) ○SATO, Kazuhiko (09:30~09:40)

Chair: TAKAYA, Hikaru (9:40~10:40)

- 2A1-05 ATP Keynote Lecture** Data driven discovery of new materials (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Isao; SEKO, Atsushi; HAYASHI, Hiroyuki; TOGO, Atsushi (09:40~10:30)
- 2A1-10 ATP Incubation Time** (10:30~10:40)

Chair: HARA, Kenji (10:40~12:00)

- 2A1-11 ATP Special Invited Lecture** Recent trend in catalyst informatics (Inst. for Cat., Hokkaido Univ.) ○SHIMIZU, Kenichi (10:40~11:20)
- 2A1-15 ATP Incubation Time** (11:20~11:30)
- 2A1-16 ATP Invited Lecture** Catalyst Informatics: Prediction of Epoxidation Reaction Yields with Machine Learning (IRC3, AIST) ○YADA, Akira (11:30~12:00)

Sunday, March 17, PM

Chair: TAKAYA, Hikaru (13:00~14:00)

- 2A1-25 ATP Keynote Lecture** Materials Informatics: state-of-the-art and future perspectives (ISM; CMI², NIMS) ○YOSHIDA, Ryo (13:00~13:50)

2A1-30 ATP Incubation Time (13:50~14:00)

Chair: MATSUMOTO, Kazuhiro (14 : 00~15 : 00)

2A1-31 ATP Invited Lecture Liquid electrolyte materials search for Li-ion batteries with data driven science (MaDIS, NIMS) ○SODEYAMA, Keitaro (14:00~14:30)

2A1-34 ATP Invited Lecture Data-driven catalyst design and elucidation of mechanism by automated reaction path search method (IRI, NAIST) ○HATANAKA, Miho (14:30~15:00)

Chair: TSUCHIBUCHI, Tsuyoshi (15 : 00~16 : 10)

2A1-37 ATP Invited Lecture Reaction rule-based predictive synthesis planning in SciFinder-n (JAICI) ○UENO, Kyoko (15:00~15:30)

2A1-40 ATP Incubation Time (15:30~15:40)

2A1-41 ATP Invited Lecture Revolution of NMR analysis by machine learning and quantum chemistry calculations (RIKEN CSRS) ○KIKUCHI, Jun (15:40~16:10)

Chair: IYAMA, Hironobu (16 : 10~17 : 20)

2A1-44 ATP Invited Lecture Data-driven approach for spectroscopy (IIS, The Univ. of Tokyo) ○MIZUGUCHI, Teruyasu; KIYOHARA, Shin (16:10~16:40)

2A1-47 ATP Special Invited Lecture Interaction between data science and theoretical/computational chemistry (Fac. Sci. Eng., Waseda Univ.) ○NAKAI, Hiromi (16:40~17:20)

(17 : 20~17 : 30)

2A1-51 Opening Remarks / Closing Remarks Closing Remarks (IRC3, AIST) ○SATO, Kazuhiko (17:20~17:30)

Monday, March 18, AM

State-of-the-art membrane technology 2019

(9 : 30 ~9 : 40)

3A1-04 Opening Remarks / Closing Remarks Introduction of Session mission (Grad. Sch. Eng., Kobe Univ.) ○MATSUYAMA, Hideto (09:30~09:40)

Chair: MATSUYAMA, Hideto (9 : 40 ~12 : 00)

3A1-05 ATP Keynote Lecture Reverse osmosis membranes using nanocarbon (ICCR, Shinshu Univ.) ○ENDO, Morinobu; TAKEUCHI, Kenji; HAYASHI, Takuya (09:40~10:30)

3A1-10 ATP Incubation Time (10:30~10:40)

3A1-11 ATP Special Invited Lecture Recent trend of the sewage works (MLIT) ○MORIOKA, Yasuhiro (10:40~11:20)

3A1-15 ATP Invited Lecture Control techniques of membrane fouling for water reclamation (ORGANO Corporation R&D center) OE, Taro; ○NAKAMURA, Yuki (11:20~11:50)

3A1-18 ATP Incubation Time (11:50~12:00)

Monday, March 18, PM

Chair: NAKAGAWA, Keizo (13 : 00~15 : 10)

3A1-25# ATP Keynote Lecture Membrane technologies for removal of ions from wastewater and waste streams (National Taiwan Univ.) ○DAMING, Wang (13:00~13:50)

3A1-30 ATP Special Invited Lecture Molecular simulation of water permeation in water channel membranes (Grad. Sch. Sci. Tech. & Innovation, Kobe Univ.) ○YOSHIOKA, Tomohisa (13:50~14:30)

3A1-34 ATP Invited Lecture Outline of PTFE hollow fiber membrane module and its application to wastewater treatment (Sumitomo Electric Industries, Ltd.) ○IKEDA, Keiichi (14:30~15:00)

3A1-37 ATP Incubation Time (15:00~15:10)

Chair: SHINTANI, Takuji (15 : 10~16 : 50)

3A1-38 ATP Special Invited Lecture "Magical Toilet" to Solve Water Pollution Problems and Food Shortages (RCEQM, Kyoto Univ.) ○SHIMIZU, Yoshihisa (15:10~15:50)

3A1-42 ATP Invited Lecture MBR technology and case studies of domestic application (Kubota Corp.) ○NAGAE, Shinya (15:50~16:20)

3A1-45 ATP Invited Lecture A development trend of MBR (Membrane Bio Reactor) for municipal wastewater and industrial wastewater treatment (Mitsubishi Chemical Aqua Solutions Co., Ltd.) ○KOBAYASHI, Masumi (16:20~16:50)

(16 : 50~17 : 00)

3A1-48 Opening Remarks / Closing Remarks Closing remarks (Grad. Sch. Eng., Kobe Univ.) ○MATSUYAMA, Hideto (16:50~17:00)

Tuesday, March 19, AM

Research frontier of cellulose nanofibers for social implementation

Chair: ERIYAMA, Yuichi (9 : 30 ~10 : 50)

4A1-04 ATP Special Invited Lecture Efforts to practical implementation of cellulose nanofibers (MIB., METI) ○NUMADATE, Takeru (09:30~10:10)

4A1-08 ATP Special Invited Lecture Structures and functions of cellulose nanofibers (CNFs) (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○ISOGAI, Akira (10:10~10:50)

Tuesday, March 19, PM

Chair: WATANABE, Eiji (13 : 00~15 : 10)

4A1-25 ATP Invited Lecture Stereoselective Organocatalysis by Structural Polysaccharides (Grad. Sch. Agri., Kyushu Univ.) ○KITAOKA, Takuya (13:00~13:30)

4A1-28 ATP Invited Lecture Preparation of nanocellulose using a bacterium and its utilization (Grad. Sch. Eng., Hokkaido Univ.) ○TAJIMA, Kenji (13:30~14:00)

4A1-31 ATP Invited Lecture Optimization of cellulose nanofiber structure for composing with resin (Kao Corp.) ○FUKUI, Shunsuke; YOSHIDA, Yutaka; YAMATO, Kyohei; KUMAMOTO, Yoshiaki; ISOGAI, Akira (14:00~14:30)

4A1-34 ATP Invited Lecture Characteristics and Mechanism of Cellulose Nanofibers in Emulsifying and Dispersing (DKS Co. Ltd.) ○GOI, Yohsuke; FUJISAWA, Shuji; SAITO, Tsuguyuki; ISOGAI, Akira (14:30~15:00)

4A1-37 ATP Incubation Time (15:00~15:10)

Chair: KUBO, Nobuo (15 : 10~16 : 40)

4A1-38 ATP Invited Lecture Physical property modification through CNF with plastics and rubber (Shinshu Univ.) ○NOGUCHI, Toru; NIHARA, Kenichi; MAEKAWA, Koji; ISOGAI, Akira (15:10~15:40)

4A1-41 ATP Invited Lecture Fabrication of Engineered Tissues by Cell Culture in Cellulose Nanofiber Hydrogel (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKEDA, Naoya (15:40~16:10)

4A1-44 ATP Invited Lecture High Performance Air Filter Media and All Cellulose Materials Prepared from Cellulose Nanofibers (Hokuetsu Corp.) ○NEMOTO, Jyunji (16:10~16:40)

Room A2

Bldg. 1 122

Energy chemistry for future sustainable society

Saturday, March 16, AM

New aspects in organic and perovskite solar cells

(9 : 00 ~9 : 10)

1A2-01 Opening Remarks / Closing Remarks Opening Remarks (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (09:00~09:10)

Chair: SEGAWA, Hiroshi (9 : 10 ~10 : 40)

1A2-02 ATP Special Invited Lecture Efficiency and durability enhancement for perovskite solar cells (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (09:10~09:50)

1A2-06 ATP Special Invited Lecture Perovskite solar cells consisting of Sn - Reseach trend for narrow-gap-perovskite solar cells and Ph-free solar cells- (Grad. Sch. Life Sci. Sys. Eng., KIT) ○HAYASE, Shuzi (09:50~10:30)

1A2-10 ATP Incubation Time (10:30~10:40)

Chair: HAYASE, Shuzi (10 : 40~12 : 10)

1A2-11 ATP Invited Lecture Interface engineering for highly durable and efficient Perovskite solar cells ○SHIRAI, Yasuhiro; KHADKA, Dhruva B.; ISLAM, Md. Bodiul; YANAGIDA, Masatoshi; NODA, Takeshi; MIYANO, Kenjiro (10:40~11:10)

1A2-14 ATP Keynote Lecture Organometal Halide Perovskite Solar Cells Getting Closer to Practical Use (Grad. Sch. Arts and Sci., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○SEGAWA, Hiroshi (11:10~12:00)

1A2-19 ATP Incubation Time (12:00~12:10)

Saturday, March 16, PM

Chair: MATSUO, Yutaka (13:00~15:10)

- 1A2-25[#] ATP Keynote Lecture** High Performance Polymer/oligomer Based Solar Cells (Nankai Univ.) ○CHEN, Yongsheng (13:00~13:50)
1A2-30[#] ATP Invited Lecture Hybrid Organic Semiconductor Materials for Perovskite Solar Cells (Grad. Sch. Sci., The Univ. of Tokyo) ○SHANG, Rui; NAKAMURA, Eiichi (13:50~14:20)
1A2-33 ATP Special Invited Lecture Materials Science toward Practical Application of Perovskite Solar Cells (ICR, Kyoto Univ.) ○WAKAMIYA, Atsushi (14:20~15:00)
1A2-37 ATP Incubation Time (15:00~15:10)

Chair: MIYASAKA, Tsutomu (15:10~16:30)

- 1A2-38 ATP Special Invited Lecture** Development of the perovskite Photovoltaic module (TOSHIBA CORP.) ○TODORI, Kenji (15:10~15:50)
1A2-42 ATP Special Invited Lecture Dye-sensitized solar cell for IoT Devices (RICOH Company, Ltd.) ○KINO, Tokushige; HORIUCHI, Tamotsu; TANAKA, Yuji; KANEL, Naomichi; SHIMOMURA, Hiroyoshi (15:50~16:30)

Chair: IKEDA, Shigeru (16:30~17:30)

- 1A2-46 ATP Invited Lecture** Controlling energy level alignment at the interface in organic solar cells (MMS, IMS) ○IZAWA, Seichiro; HIRAMOTO, Masahiro (16:30~17:00)
1A2-49 ATP Invited Lecture Creation of Stable and Flexible Organic and Perovskite Solar Cells Utilizing Nanocarbon Materials (Grad. Sch. Eng., The Univ. of Tokyo) ○MATSUO, Yutaka (17:00~17:30)

Sunday, March 17, AM

State-of-the-art green hydrogen production and carbon dioxide utilization for low-carbon society

(9:30~9:40)

- 2A2-04 Opening Remarks / Closing Remarks** Opening Remarks (RCPV, AIST) ○SAYAMA, Kazuhiro (09:30~09:40)

Chair: SUNADA, Yusuke (9:40~11:10)

- 2A2-05 ATP Special Invited Lecture** Conversion of CO₂ by H₂O as an electron donor using all-solid-state photocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○TERAMURA, Kentaro; HORI, Kazuki; HASEGAWA, Yudai; TERAOKA, Yosuke; TATSUMI, Hiroyuki; PANG, Rui; HUANG, Zeai; IGUCHI, Shoji; WANG, Zheng; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro (09:40~10:20)
2A2-09 ATP Special Invited Lecture Direct synthesis of polycarbonates from CO₂ and diols (Grad. Sch. Eng., Tohoku Univ.) ○TAMURA, Masazumi (10:20~11:00)
2A2-13 ATP Incubation Time (11:00~11:10)

Chair: SAYAMA, Kazuhiro (11:10~12:00)

- 2A2-14 ATP Keynote Lecture** Prospect of R & D for realization of hydrogen society (ERCA) ○KAMEYAMA, Hideo (11:10~12:00)

Sunday, March 17, PM

Chair: IKEDA, Shigeru (13:00~14:20)

- 2A2-25 ATP Invited Lecture** Activation and Transformation of Small Molecules by Multimetallic Hydride Clusters (RIKEN CSRS) ○SHIMA, Takanori (13:00~13:30)
2A2-28 ATP Special Invited Lecture Technology to convert renewable energy into methane. -Towards Low Carbon Societies, Hitachi Zosen's Efforts- (Hitachi Zosen Co.) ○KUMAGAI, Naokazu; IZUMIYA, Koichi; TAKANO, Hiroyuki; HASHIMOTO, Koji (13:30~14:10)
2A2-32 ATP Incubation Time (14:10~14:20)

Chair: YAMADA, Yusuke (14:20~15:50)

- 2A2-33 ATP Special Invited Lecture** Development of Efficient Systems for Hydrogen Production and Hydrogen Storage Based on Catalytic Activity of Iridium Complexes in Dehydrogenative Reactions (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○FUJITA, Kenichi (14:20~15:00)
2A2-37 ATP Special Invited Lecture Development of ammonia synthesis catalyst with high density hydride ions (MCES, Tokyo Tech.) ○KITANO, Masaaki (15:00~15:40)
2A2-41 ATP Incubation Time (15:40~15:50)

Chair: AMAO, Yutaka (15:50~17:10)

- 2A2-42 ATP Special Invited Lecture** Long-term vision of CO₂-free hydrogen society (IAE) ○HIDA, Shigeki (15:50~16:30)
2A2-46 ATP Special Invited Lecture Utilization of hydrogen peroxide as a promising energy carrier (Grad. Sch. Eng., Osaka City Univ.) ○YAMADA, Yusuke (16:30~17:10)

(17:10~17:20)

- 2A2-50 Opening Remarks / Closing Remarks** Closing Remarks (OCARINA) ○AMAOKI, Yutaka (17:10~17:20)

Monday, March 18, AM

Innovative technologies for low-carbon society based on green hydrogen

(10:00~10:10)

- 3A2-07 Opening Remarks / Closing Remarks** Opening Remarks (RENRC, AIST) ○FURUTANI, Hirohide (10:00~10:10)

Chair: FURUTANI, Hirohide (10:10~12:00)

- 3A2-08 ATP Keynote Lecture** Challenges and future prospect toward wide spreading of hydrogen energy utilization (IIR, Tokyo Tech.) ○OKAZAKI, Ken (10:10~11:00)
3A2-13 ATP Incubation Time (11:00~11:10)
3A2-14 ATP Special Invited Lecture Implementation of the Hydrogen Smart City Kobe Initiative (Environment Bureau, Kobe City Government) ○NANBU, Noriyuki (11:10~11:50)
3A2-18 ATP Incubation Time (11:50~12:00)

Monday, March 18, PM

Chair: MITSUSHIMA, Shigenori (13:00~13:50)

- 3A2-25 ATP Special Invited Lecture** Energy flow optimization for automobile plant zero emission (Toyota Central R&D Labs., Inc.) ○SHICHI, Akira (13:00~13:40)
3A2-29 ATP Incubation Time (13:40~13:50)

Chair: SHICHI, Akira (13:50~15:10)

- 3A2-30 ATP Special Invited Lecture** Issue and solution of the development of alkaline water electrolysis using renewable energies (Grad. Fac. Eng., Yokohama Natl. Univ.; IAS, Yokohama Natl. Univ.) ○MITSUSHIMA, Shigenori; NAGASAWA, Kensaku; KURODA, Yoshiyuki (13:50~14:30)
3A2-34 ATP Invited Lecture Approach of Kobelco-Eco Solutions towards Realization of Hydrogen-based Society (Kobelco Eco-Solutions Co., Ltd.) ○ISHII, Yutaka (14:30~15:00)
3A2-37 ATP Incubation Time (15:00~15:10)

Chair: HIMEDA, Yuichiro (15:10~16:30)

- 3A2-38 ATP Special Invited Lecture** Current status and issues of recovery and purification of H₂ and CO₂ (Sch. Adv. Eng., Kogakuin Univ.) ○NAKAO, Shin-ichi (15:10~15:50)
3A2-42 ATP Invited Lecture High Performance CO₂ Capture System by Chemical Absorption (NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.) HAGI, Daisuke; HAYASHI, Mikihiro; MIMURA, Tomohiro; ○IGARASHI, Masayuki (15:50~16:20)
3A2-45 ATP Incubation Time (16:20~16:30)

Chair: AMAO, Yutaka (16:30~17:40)

- 3A2-46 ATP Special Invited Lecture** Synthesis of biomass-derived diols and the reaction of the diols with carbon dioxide (Grad. Sch. Eng., Tohoku Univ.) ○TOMISHIGE, Keiichi (16:30~17:10)
3A2-50 ATP Invited Lecture Development of Catalyst for Hydrogenation of Carbon Dioxide to Formic Acid and Methanol (RENRC, AIST) ○HIMEDA, Yuichiro (17:10~17:40)

(17:40~17:50)

- 3A2-53 Opening Remarks / Closing Remarks** Closing Remarks (RENRC, AIST) ○FURUTANI, Hirohide (17:40~17:50)

Room A4

Bldg. 1 132

Innovative healthcare technologies

Saturday, March 16, PM

Diagnostic technology for the future of healthcare

(13:00~13:10)

- 1A4-25 Opening Remarks / Closing Remarks** Opening Remarks (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAWA, Takeaki (13:00~13:10)

Chair: OZAWA, Takeaki (13:10~15:20)

- 1A4-26 ATP Special Invited Lecture** Nanotechnology-Based Diagnosis for Cancer and Common Diseases (Grad. Sch. Eng., Nagoya Univ.; ImPACT Res. Cen. Adv. Nanobiodevices, Nagoya Univ.) ○BABA,

Yoshinobu (13:10~13:50)

- 1A4-30 ATP Special Invited Lecture** Assessing clinical significance using fingertip skin autofluorescence (SHARP Life Science corporation) ○YAMANAKA, Mikihiro (13:50~14:30)
- 1A4-34 ATP Special Invited Lecture** Mass spectrometry for the early detection of Alzheimer's disease (Shimadzu Corp.) ○KANEKO, Naoki (14:30~15:10)
- 1A4-38 ATP Incubation Time** (15:10~15:20)

Chair: SAKURAI, Kaori (15:20~16:40)

- 1A4-39 ATP Special Invited Lecture** Development of nanobiosensors and biomedical applications (Grad. Sch. Eng., Osaka Univ.) ○TAMIYA, Eiichi (15:20~16:00)
- 1A4-43 ATP Special Invited Lecture** Sulfur index as a new evaluation technique on medical region (Grad. Sch. Life and Env. Sci., Univ. of Tsukuba) ○OHTSU, Iwao (16:00~16:40)

Sunday, March 17, AM

Polymer biomaterials bringing about medical innovation

(9:30~9:40)

- 2A4-04 Opening Remarks / Closing Remarks** Opening Remarks (IMCE, Kyushu Univ.) ○TANAKA, Masaru (09:30~09:40)
- Chair: AOI, Keigo (9:40~11:00)
- 2A4-05 ATP Special Invited Lecture** Biointerfacial Control Inspired by Biomolecular Mechanism (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SERIZAWA, Takeshi (09:40~10:20)
- 2A4-09 ATP Special Invited Lecture** Application of "Nanoadhesive Plaster" and "Electro-nanoadhesive Plaster" in Healthcare Fields (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKEOKA, Shinji (10:20~11:00)

Chair: TANAKA, Masaru (11:00~12:00)

- 2A4-13 ATP Keynote Lecture** Structure and Properties of Polymer Brushes at Aqueous Interfaces (IMCE, Kyushu Univ.) ○TAKAHARA, Atsushi (11:00~11:50)
- 2A4-18 ATP Incubation Time** (11:50~12:00)

Sunday, March 17, PM

Chair: ONISHI, Tomoyuki (13:00~15:10)

- 2A4-25 ATP Special Invited Lecture** Bio-interfaces to control non-specific interactions and applications for medical devices (IMCE, Kyushu Univ.) ○TANAKA, Masaru (13:00~13:40)
- 2A4-29 ATP Special Invited Lecture** Materials design of nanostructured interface for medical devices (Grad. Sch. Eng., The Univ. of Tokyo) ○TAKAI, Madoka (13:40~14:20)
- 2A4-33 ATP Special Invited Lecture** Polymer Materials for Medical Devices (TERUMO CORP.) ○KAWANISHI, Tetsuro (14:20~15:00)
- 2A4-37 ATP Incubation Time** (15:00~15:10)

Chair: OHASHI, Hidekazu (15:10~17:20)

- 2A4-38 ATP Special Invited Lecture** Analysis of molecular processes at biointerfaces by combining techniques of surface science and informatics (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAYASHI, Tomohiro (15:10~15:50)
- 2A4-42 ATP Special Invited Lecture** Introduction of 3D cell culture media "FCeM series" (Nissan Chemical Corp.) ○HORIKAWA, Masato (15:50~16:30)
- 2A4-46 ATP Special Invited Lecture** Surface design and spheroid formation rate control by novel polymers (Toyo Ink SC Holdings Co., Ltd.) ○OGIWARA, Naoto (16:30~17:10)
- 2A4-50 ATP Incubation Time** (17:10~17:20)

Energy chemistry for future sustainable society

Monday, March 18, AM

Technological innovations of rechargeable batteries

(10:30~10:40)

- 3A4-10 Opening Remarks / Closing Remarks** Opening Remarks (Grad. Fac. Eng., Yokohama Natl. Univ.) ○YABUUCHI, Naoaki (10:30~10:40)

Chair: HOSONO, Eiji (10:40~12:00)

- 3A4-11 ATP Special Invited Lecture** Sodium secondary batteries utilizing ionic liquid electrolytes (Grad. Sch. Energy Sci., Kyoto Univ.) ○MATSUMOTO, Kazuhiko; NOHIRA, Toshiyuki; HAGIWARA, Rika (10:40~11:20)
- 3A4-15 ATP Invited Lecture** Fast-charging and Safety Rechargeable Lithium-ion Battery Using Titanium Oxide Anode (TOSHIBA CORP.) ○HOSHINA, Keigo; HARADA, Yasuhiro; TAKAMI, Norio (11:20~11:50)

- 3A4-18 ATP Incubation Time** (11:50~12:00)

Monday, March 18, PM

Chair: YABUUCHI, Naoaki (13:30~15:00)

- 3A4-28 ATP Keynote Lecture** Materials chemistry of rechargeable batteries based upon abundant alkaline elements (Fac. Sci., TUS; ESICB, Kyoto Univ.) ○KOMABA, Shinichi; KUBATA, Kei; HOSAKA, Tomooki (13:30~14:20)
- 3A4-33 ATP Invited Lecture** Development of lithium ion conductive oxide-based solid electrolyte and its applications (OHARA INC.) ○OGASA, Kazuhito; SATO, Ryouhei; OONO, Tomoimi; KATOH, Takashi (14:20~14:50)
- 3A4-36 ATP Incubation Time** (14:50~15:00)

Chair: HOSHINA, Keigo (15:00~16:50)

- 3A4-37 ATP Special Invited Lecture** Comprehensive Calculation Search and Characterization of Oxide Electrode for Na⁺ ion Battery (Dept. Life Sci. & Appl. Chem., Nagoya Inst. of Tech.) ○TANIBATA, Naoto; MAEDA, Masaki; KONDO, Yuki; YAMADA, Shohei; TAKEDA, Hayami; NAKAYAMA, Masanobu (15:00~15:40)
- 3A4-41 ATP Invited Lecture** Current status and issues in safety standards for battery energy storage (JET) ○HONDA, Keizoh (15:40~16:10)
- 3A4-44 ATP Special Invited Lecture** Development of novel solid electrolyte and electrode active material aiming for innovative all-solid-state battery (Grad. Sch. Eng., Osaka Pref. Univ.) ○SAKUDA, Atsushi; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro (16:10~16:50)

(16:50~17:00)

- 3A4-48 Opening Remarks / Closing Remarks** Closing Remarks (Grad. Fac. Eng., Yokohama Natl. Univ.) ○YABUUCHI, Naoaki (16:50~17:00)

Tuesday, March 19, AM

Frontiers in thermoelectric conversion technologies

(10:20~10:30)

- 4A4-09 Opening Remarks / Closing Remarks** Opening Remarks (iECO, AIST) ○YAMAMOTO, Atsushi (10:20~10:30)

Chair: HOSONO, Eiji (10:30~11:10)

- 4A4-10 ATP Special Invited Lecture** Development of a printable thermoelectric energy harvester (Sch. Eng., KIT) ○MIYAZAKI, Koji (10:30~11:10)

Chair: YAMAMOTO, Atsushi (11:10~12:10)

- 4A4-14 ATP Keynote Lecture** Thermoelectrics: Beyond the conventional design rules (Grad. Sch. Sci., Nagoya Univ.) ○TERASAKI, Ichiro (11:10~12:00)
- 4A4-19 ATP Incubation Time** (12:00~12:10)

Tuesday, March 19, PM

Chair: HOSONO, Eiji (13:30~14:00)

- 4A4-28 ATP Invited Lecture** Structure and Thermoelectric Properties of Ge-Sb-Te Materials (Grad. Sch. Sci., Osaka Pref. Univ.; PRESTO, JST) ○KOSUGA, Atsuko (13:30~14:00)

Chair: YAMAMOTO, Atsushi (14:00~15:10)

- 4A4-31 ATP Invited Lecture** Evaluation method of thermoelectric material and module (ADVANCE RIKO, Inc.) ○IKEUCHI, Satoaki (14:00~14:30)
- 4A4-34 ATP Incubation Time** (14:30~14:40)
- 4A4-35 ATP Keynote Lecture** Developing Novel Principles to Enhance Performance of Thermoelectric Materials (RCFM, NIMS) ○MORI, Takao (14:40~15:30)

Chair: HOSONO, Eiji (15:30~16:10)

- 4A4-40 ATP Special Invited Lecture** Thermoelectrics for Waste Heat Recovery: Enhancement of Conversion Efficiency and Development of Alternative Materials (iECO, AIST) ○OHTA, Michihiro (15:30~16:10)

(16:10~16:20)

- 4A4-44 Opening Remarks / Closing Remarks** Closing Remarks (iECO, AIST) ○YAMAMOTO, Atsushi (16:10~16:20)

Room A5

Bldg. 1 133

Co-creation of seeds - The future of collaboration among industry, universities and government -**Sunday, March 17, PM**

(12 : 50~13 : 00)

2A5-24 Opening Remarks / Closing Remarks Opening Remarks (Mitsubishi Chemical Holdings Corporation) ○URATA, Hisao (12:50~13:00)

Chair: TSUJI, Ryotaro (13 : 00~14 : 30)

2A5-25 ATP Special Invited Lecture The problem and solution of open innovation (HUB) ○NISHINO, Kazumi (13:00~13:40)**2A5-29 ATP Special Invited Lecture** R&D-strategy of materials science and nanotechnology (JST) ○NAKAYAMA, Tomohiro (13:40~14:20)**2A5-33 ATP Incubation Time** (14:20~14:30)

Chair: ABE, Ryu (14 : 30~17 : 40)

2A5-34 ATP Special Invited Lecture Graduate School for Industry-University-Government Co-Creation - Approach to Acceleration of Open Innovation - (Grad. Sch. Eng., Osaka Univ.) ○KURASHIKI, Tetsuei (14:30~15:10)**2A5-38 ATP Special Invited Lecture** Chemistry, Connecting Diversity towards the New Innovation (JACI) ○KATAOKA, Masaki (15:10~15:50)**2A5-42 ATP Incubation Time** (15:50~16:00)**2A5-43 ATP Special Invited Lecture** Amazing Creativity in Diversity-Oriented Japanese Way ○DOMEN, Kay (16:00~16:40)**2A5-47 Panel Discussion** Co-creation of seeds — The future of collaboration in chemistry — (Mitsubishi Chemical Holdings Corporation; Showa Denko K.K.; Yushisozu; Grad. Sch. Eng., Osaka Univ.; ICR, Kyoto Univ.; Hiroshima Univ.) (16:40~17:40)**Innovative healthcare technologies****Monday, March 18, PM****Bioventures based on new modalities**

(13 : 00~13 : 10)

3A5-25 Opening Remarks / Closing Remarks Opening Remarks (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (13:00~13:10)

Chair: OHNO, Osamu (13 : 10~15 : 00)

3A5-26 ATP Special Invited Lecture Aptamer as a therapeutic middle molecule and its development to clinical trials (RIBOMIC) ○NAKAMURA, Yoshikazu (13:10~13:50)**3A5-30 ATP Invited Lecture** Peptide Therapeutics and Antibody inducing Peptide (FunPep) ○HIRAI, Akimitsu (13:50~14:20)**3A5-33 ATP Incubation Time** (14:20~14:30)**3A5-34 ATP Invited Lecture** Development of an Unnatural Peptide Drug Candidate CBP501 and Recent Paradigm Shifts in Oncology Drug Development (CanBas Co., Ltd.) ○KAWABE, Takumi (14:30~15:00)

Chair: YUNOMURA, Shuichi (15 : 00~16 : 50)

3A5-37 ATP Invited Lecture Development of Telomelysin[®], Telomerase dependent oncolytic virus (Oncolys BioPharma Inc.) ○URATA, Yasuo (15:00~15:30)**3A5-40 ATP Incubation Time** (15:30~15:40)**3A5-41 ATP Invited Lecture** Expectations and Challenges of New Modality Medicinal Products from Pharmaceutical Business Point of View (Daiichi Sankyo Co., LTD.) ○KUBO, Yuichi (15:40~16:10)**3A5-44 ATP Invited Lecture** Modulus Discovery: Networked drug discovery leveraging large-scale simulation technology ○KIMURA, Roy, Suguru (16:10~16:40)**3A5-47 ATP Incubation Time** (16:40~16:50)**Room P**

Gymnasium and Auditorium Arena

Saturday, March 16, PM

(15 : 00~16 : 30)

Energy**Energy****1PC-001** Dye Sensitized Solar Cells by use of Supramolecules of Phthalocyanines and Porphyrins (Food Technology, Shimane Institute for Industrial Technology; FINE CHEMICAL DIVISION, KNC Laboratories Co., Ltd.) ○MATSUBAYASHI, Kazuhiko; ODA, Yukiko; TANAKA, Kouichi; YAMAMOTO, Yutaka; AKAZAWA, Masako**1PC-002** Crystal structures of self-assembled supramolecules comprising phthalocyanine derivatives and tetra-phenyl porphyrins (Shimane institute for industrial technology, JASRI/Spring-8) ○MAKINO, Masatomo; MATSUBAYASHI, Kazuhiko; ODA, Yukiko; IMAWAKA, Naoto; MIZUNO, Nobuhiro; KUMASAKA, Takashi; YOSHINO, Katsumi**1PC-003[#]** Development of Sulfurized Polyacrylonitrile (SPAN) Anode for Lithium-Ion Secondary Batteries (ADEKA Corp.) ○KAKIAGE, Kenji; AOYAMA, Yohei; KIMIJIMA, Kouichi**1PC-004[#]** Highly efficient photon upconversion based on the control of dimensional nanostructures in chromophoric ionic liquids (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.) ○HISAMITSU, Shota; SHIMIZU, Karina; LOPES, José Nuno Canongia; MAGOME, Eisuke; YANAI, Nobuhiro; KIMIZUKA, Nobuo**1PC-005[#]** The Role of Solvent Charge Donation in the Stabilization of Metal Ions in Aqueous Solution (Dept. of Mech. Eng., Nat. Univ. of Singapore) ○KOCH, Daniel Michael; MANZHOS, Sergei**1PC-006** Development of novel proton conducting coordination polymer for intermediate temperature electrochemical devices (DENSO CORP.; WPI-iCeMS, Kyoto Univ.; MCES, Tokyo Tech.) ○TAKAHASHI, Kazuki; ITAKURA, Tomoya; KAMI, Kenichirou; HORIKE, Satoshi; TADA, Tomofumi; KITAGAWA, Susumu**1PC-007[#]** Creation of solution-processed intermediate-band solar cells with PbS quantum dots and perovskites (Kao Corp.; RCAST, The Univ. of Tokyo; Grad. Sch. Life Sci. Sys. Eng., KIT) ○OKONOGI, Akinori; HOSOKAWA, Hiroji; TAMAKI, Ryo; SAWADA, Takuya; SATO, Haruyuki; OGOMI, Yuhei; HAYASE, Shuzi; OKADA, Yoshitaka; YANO, Toshihiro**1PC-008** Hydrogen generation from the reaction between H₂O and mechano-synthesized Si particles (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○OHTA, Haruhisa; SAITOW, Ken-ichi**1PC-009[#]** Hydrogen synthesized from reaction between metal and water: mechanism of extraordinary amount of hydrogen generation (Fac. Sci., Hiroshima Univ.) ○YAMAMOTO, Takuya; SAITOW, Ken-ichi**1PC-010[#]** Synthesis of visible-light-responsive Sillén-Aurivillius triple-layered perovskite oxyhalide and their photocatalytic activity (Grad. Sch. Eng., Kyoto Univ.) ○OZAKI, Daichi; NAKADA, Akinobu; HIGASHI, Masanobu; TOMITA, Osamu; ABE, Ryu**1PC-011[#]** Cation Affinities throughout the Periodic Table (Fac. Sci., Vrije Univ. of Amsterdam) ○BOUGHLALA, Zakaria; FONSECA GUERRA, Celia; BICKELHAUPT, F Matthias**1PC-012** Molecular Dynamics Simulation Analysis of Electrode Electrolyte Interface using Amorphous Carbon Electrode Model (Grad. Sch. Info., Nagoya Univ.) ○FUJIE, Takuya; TAKENAKA, Norio; INAGAKI, Taichi; NAGAOKA, Masataka**1PC-013** High Se Thermocells consisting of thermo-responsive molecular technologies (Grad. Sch. Eng., Kyushu Univ.) ○YAMADA, Teppei; KOBAYASHI, Takashi; HAYASHI, Keisuke; INOUE, Hirotaka; IWAMI, Risa; LIANG, Yimin; KIMIZUKA, Nobuo**1PC-014[#]** Electrochemical Deposition of Gold Nanowires Coated with Ruthenium Oxide for High-performance Supercapacitors (Department of Applied Chemistry) ○LIU, Chao-hua; CHIU, Hsin-tien**1PC-015[#]** Hydrothermal syntheses of SnO₂ nanosheets for sodium-ion battery application (Department of Applied Chemistry) ○SU, Ching-hua; CHIU, Hsin-tien**1PC-016** Development of suitable membranes for biofuel cells and their applications (AISIN COSMOS R&D CO.,LTD.) ○ISEZAKI, Yuka; SAWA, Haruo; NAKAOKI, Yuichiro**1PC-017** Scale up demonstration of cellulosic ethanol production process from woody biomass (JXTG Nippon Oil & Energy Corp.; Oji Holdings Co.) ○KANEZAWA, Miyuki; IDE, Kohei; FUKUDA, Akira; NAKAGAWA, Kojiro; SEKIZAWA, Shingo; TSUKAMOTO, Akira; AZUMI, Naoya; FURUJO, Atsushi**1PC-018[#]** Fabrication and evaluation of phosphorescent materials modified with gold nanoparticles (Sch. Eng., The Univ. of Shiga Pref.) ○MATSUMIYA, Yusuke; AKIYAMA, Tsuyoshi; OKU, Takeo**1PC-019** Evaluation of the Material Balance in the Ammonia Formation

Process from Iron Nitride (Grad. Sch. Integrat. Eng. Sci., Tokyo City Univ.)
 ○MASUZOE, Yuki; EBA, Hiromi

Resources/Environment/Green sustainable chemistry

Resources/Environment/Green sustainable chemistry

- 1PC-020** A Flow Microreactor Approach to Diels-Alder Reaction with Electrogenerated o-Quinone (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TANAKA, Kenta; YOSHIZAWA, Hirona; ATOBE, Mahito
- 1PC-021** Synthesis and thermal properties of *N*--salicylidene pyrenes containing fatty acid ester (HITec) ○ACHIRA, Hiroto
- 1PC-022[#]** Property control of poly(methyl methacrylate) by metal salt addition (JAIST) ○ITO, Asae; YAMAGUCHI, Masayuki; MAENO, Ryota; MIYAGAWA, Azusa
- 1PC-023** Improvement of current density in CO₂ reduction cell with Au nanoparticles (TOSHIBA CORP.) ○KOFUJI, Yusuke; ONO, Akihiko; KUDO, Yuki; SUGANO, Yoshitsune; MIKOSHIBA, Satoshi; KITAGAWA, Ryota
- 1PC-024** Highly Efficient Electrooxidation of Benzyl Alcohol in a Flow Electrolytic Column Cell Modified with TEMPO Mediator (Sch. Eng., Yokohama Natl. Univ.) ○SUGA, Tatsuya; TANAKA, Kenta; ATOBE, Mahito
- 1PC-025** Synthesis and molecular weight control of poly(para-phenylene) using electro-oxidative polymerization in a flow microreactor (Sch. Eng., Yokohama Natl. Univ.) ○NAKAMURA, Yuto; TANAKA, Kenta; ATOBE, Mahito
- 1PC-026** Electrocatalytic Oxidation of Cyclohexene Using a PEM Reactor with Gold Nanoparticle Catalysts (Sch. Eng., Yokohama Natl. Univ.) ○IDO, Yuto; SHIMIZU, Yutaro; MINOSHIMA, Juri; FUKAZAWA, Atsushi; TANAKA, Kenta
- 1PC-027** Oxidative H₂O₂ production from H₂O on Cu-based composite metal oxide modified FTO anode (Grad. Sch. Fac. Sci. Technol., TUS; RCPV, AIST) ○MIYASE, Yuta; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 1PC-028** Selective dissolution of cellulose with liquid zwitterion (Coll. Sci. Eng., Kanazawa Univ.) ○KADOKAWA, Riki; KURODA, Kosuke; NINOMIYA, Kazuaki; TAKAHASHI, Kenji
- 1PC-029** Pretreatment Process for Electroless Plating on Plastics using Photooxidation Method (Grad. Sch. Eng., Osaka Univ.) ○ASAHARA, Haruyasu; JIA, Yankun; ASOH, Taka-aki; OHKUBO, Kei; UYAMA, Hiroshi; INOUE, Tsuyoshi
- 1PC-030** Resin-metal joining by nanometer structure design (Toyota Central R&D Labs., Inc.) ○SAKAKURA, Natsu; TAKEUCHI, Hisato; TSUKIGASE, Azusa; UMEMOTO, Kazuhiko
- 1PC-031** Porous Network Structures formed by the Intermolecular Hydrogen Bond of Bis(benzimidazole)-coordinated Metal Dichloride Complexes and Their Functions. (Grad. Sch. Sci. Tech., Hirosaki Univ.; Fac. Sci. Tech., Hirosaki Univ.) ○OHTA, Shun; IWABUCHI, Yurika; OKAZAKI, Masaaki
- 1PC-032** Precise Synthesis of Macrocyclic Polysiloxanes with Si-H Group (IRC3, AIST) ○KAWATSU, Takahiro; MATSUMOTO, Kazuhiro; CHOI, Jun-chul; SATO, Kazuhiko
- 1PC-033[#]** Surface Plasmon Effect of Core-Shell Ag-TiO₂ for Photocatalytic CO₂ Reduction (IRC3, AIST) ○HONG, Dachao; LYU, Lian-ming; KON, Yoshihiro
- 1PC-034** CO₂ utilization reactions using formate catalyst and silicon based reductants (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAKAGAWA, Chihiro; PRAMUDITA, Ria Ayu; MANAKA, Yuichi; MOTOKURA, Ken
- 1PC-035[#]** Synthesis of α -Trifluoromethylated Ketones using Trifluoromethanesulfonic Acid or Anhydride (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KAWAMOTO, Takuji; SASAKI, Rio; TAKATA, Ryotaro; NOGUCHI, Kohki; MOCHIMIZO, Keisuke; KAMIMURA, Akio
- 1PC-036[#]** Aggregation-induced emission properties of 2-vinylpyrrole derivatives and their applications (NIT, Kitakyushu College) ○OKAWARA, Toru; MATSUFUJI, Yurina; MIZUNO, Kohei; TAKEHARA, Kenji
- 1PC-037** Study of safe and continuous mixing process of solid rocket propellant using peristaltic artificial muscle mixer and its technical demonstration by rocket firing test (JAXA; Chuo Univ.; Japan Carlit) ○IWASAKI, Akihiro; ASHIGAKI, Kyota; HAGIWARA, Daiki; TAGAMI, Kengo; NOZOE, Katsuhiko; YAMADA, Yasuyuki; NAKAMURA, Taro; HABU, Hiroto
- 1PC-038[#]** Efficient Mineralization of Poly(vinylidene fluoride) and Related Copolymers in Low-temperature Subcritical Water in the Presence of Manganese Compound (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○HONMA, Ryo; HORI, Hisao
- 1PC-039[#]** Rapid, low temperature formation of covalent organic frameworks catalyzed by Lewis acids and their applications for water purification (MANA, NIMS; Dept. Chem., Northwestern Univ.) ○MATSUMOTO, Michio; DICHTTEL, William
- 1PC-040** Molecular species analysis of light gas oil in hydrodesulfurization (Grad. Sch. Eng. Sci., Kyushu Univ.) ○MASHIO, Takashi; WATANABE, Hironori; NAKABAYASHI, Koji; MIYAWAKI, Jin; YOON, Seong-ho; MOCHIDO, Isao

- 1PC-041** Catalytic ammonium carbamate conversion into urea aimed at utilization of environmental ammonium ion (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAGATSUKA, Yuki; MOTOKURA, Ken; MANAKA, Yuichi
- 1PC-042[#]** Visible-light-emitting Si quantum dots synthesized from rice husks: surface passivation and solvent dispersion (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○TERADA, Shihō; SAITOW, Ken-ichi
- 1PC-043** Development of biomimetic reverse osmosis membranes using gramicidin A (Fac. Eng., Shinshu Univ.; Grad. Sch. Eng., Kobe Univ.; Kurita Water Industries Ltd.) ○SAEKI, Daisuke; OKUNO, Kenta; KAWAKATSU, Takahiro; FUJIMURA, Yu; MATSUYAMA, Hideto
- 1PC-044[#]** Withdrawn
- 1PC-045[#]** Study on dynamic adsorption behaviors of metal scavenger using DualPore silica aiming to remove of metals to ppt level (DPS Inc.) BAI, Honzhi; ○RIICHI, Miyamoto
- 1PC-046[#]** Aldol condensation of ketone using Micro Flow Reactor (M.F.R.) (JNC CORP. Production Tech. Dept., Minamata) ○FURUSATO, Shinichi; KAWANABE, Toshiyuki; TACHIBANA, Kohei
- 1PC-047[#]** Continuous process development using Micro Flow Reactor (JNC) ○KAWANABE, Toshiyuki; FURUSATO, Shinichi
- 1PC-048** Esterification using microplant for continuous-flow synthesis (RigakuKobo, LLC; MAK Engineering Co.; Ind. Res. Ctr. Shiga Pref.) ○NAKAYAMA, Nobuyuki; KOTANI, Isao; KOTANI, Kentaro; NAKAI, Naohiro
- 1PC-049** Fouling Resistant PVDF Hollow Fiber Membrane for Municipal Wastewater Reclamation Process (Toray Industries, Inc.) ○IWAI, Kenta; KOBAYASHI, Kentaro; HANAKAWA, Masayuki
- 1PC-050[#]** Scalable Continuous Flow Synthesis of Pt NPs with Narrow Size Distribution for Pt@Carbon Catalysts (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○SINGH, Ankit; MIYABAYASHI, Keiko
- 1PC-051** Influence of Oxygen in the Polymerization Media on the Polymerization Initiated with R-Alpine-Borane (Tohoku Seikatsu Bunka Univ.) ○KANNO, Shuichi
- 1PC-052** Photo-Imprinting and Subsequent Photo-Thermal Patterning of Reworkable Resin (Grad. Sch. Eng., Osaka Pref. Univ.) ○OKAMURA, Haruyuki; TACHI, Hideki
- 1PC-053** Study on solidifying and molding techniques of seeding soil with a biomass-derived polymer (Kanazawa Inst. of Tech.) SUZUKI, Tomoya; YOSHIMURA, Osamu; OHNISHI, Asumi; SHIMIZU, Kazushi; NAGASAWA, Norio; SERIZAWA, Hiroaki; ○TSUKEGI, Takayuki
- 1PC-054[#]** Fabrication of Nano-Fibers using Electro-spinning Method for Efficient Separation of Different Surface tension (Fac. Sci. Tech., Keio Univ.) ○KWON, Soonil; SUZUKI, Ryuki; KYUNG, Kyuhong; WENG, Wei; SHIRATORI, Seimei
- 1PC-055[#]** Enhanced Photocatalysis from Truncated Octahedral Bipyramids of Anatase TiO₂ with Exposed {001}/1101 Facets (Department of Applied Chemistry) ○LEE, Tsu-yuan; CHIU, Hsin-tien
- 1PC-056** Development of flow type microwave reactor using solid state microwave generator (RYOWA ELECTRONICS CO.,LTD.) ○ITAGAKI, Atsushi
- 1PC-057[#]** Degradation of polyester fiber or polyester-cotton mixed fiber by microwave heating (Fac. Eng., Sojo Univ.) ○IKENAGA, Kazutoshi; KINJO, Taichi
- 1PC-058** Development of trace moisture analyzer with metal organic frameworks (Taiyo Nippon Sanso Corp.) ○ENDO, Masaaki; NAKAMURA, Nao; MIKI, Yusuke; ABE, Toyohiko; HIROSE, Yasuo; OHIRA, Shin-ichi; TODA, Kei
- 1PC-059** Preparation of powder cellulose nanocrystal (CNC) from offcut cotton textile for novel sustainable nanofiller (R&D Department, FillerBank Ltd.; IMRAM, Tohoku Univ.) ○ARITA, Toshihiko; IKEMOTO, Hiroyuki; TAKEMOTO, Kenji; KAWAGUCHI, Ryota; KATSUNO, Harutaka
- 1PC-060[#]** Process Development for Scalable Synthesis of a Chiral α -Arylpropionic Acid (MTPC SC Process) ○YAMAGAMI, Takafumi

New materials

New materials

- 1PC-061** Assembly of binary microgels during the evaporation of aqueous droplet. (Fac. Textile Sci. Technol., Shinshu Univ.; IFES, Shinshu Univ.) ○HONDA, Kenshiro; TAKIZAWA, Masaya; WATANABE, Takumi; SUZUKI, Daisuke
- 1PC-062** Cellulose nanofibers effect on sustained release behavior of fragrance components (Industrial Research Institute of Shizuoka Prefecture) ○ISHIBASHI, Kana
- 1PC-063[#]** Rapid Self-healing materials consisting of polyrotaxane cross-linked by host-guest interactions (Grad. Sch. Sci., Osaka Univ.) ○KOBAYASHI, Yuichiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PC-064[#]** Inclusion of Metal Ions by Tiara-like Platinum-Thiolate Complexes (Lab. Chem. Life Sci., Tokyo Tech.) ○AKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1PC-065** Synthesis of Liquid Crystalline Polymer with Ligands and Their Phase Transition Behavior (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TANAKA, Hiroki; MAJIMA, Kenya; KAWAMURA, Akifumi;

- MIYATA, Takashi
- 1PC-066** Fabrication and characterization of insulation materials consisting of carbon nanotube, cellulose nanofiber and porous silica (Grad. Sch. Eng., Nagoya Univ.) ○SHIOURA, Naoto; MATSUSHIMA, Kazuki; OSATO, Tomoki; UENO, Tomonaga; ISU, Norifumi; HASHIMOTO, Tsuyoshi; YANA, Takumi
- 1PC-067[#]** Functionalization of phosphine-protected gold clusters by ligand modification (Grad. Sch. Sci., TMU) ○CHUDATEMIYA, Vorakit; MATSUYAMA, Tomoki; TAKAYA, Hikaru; YASUDA, Nobuhiro; YAMAZOE, Seiji
- 1PC-068[#]** Mechano optical properties of cholesteric-liquid-crystal elastomers: strain induced change in reflection color (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KU, Kyosun; KIMURA, Seiya; AKAMATSU, Norihisa; SHISHIDO, Atsushi; HISANO, Kyohei; TSUTSUMI, Osamu
- 1PC-069[#]** Photophysical evaluation of mechanofluorochromic pyrene derivatives (ENS Paris-Saclay, CNRS) ○HIRAI, Yuichi; WRONAPLOTROWICZ, Anna; ZAKRZEWSKI, Janusz; MÉTIVIER, Rémi; ALLAIN, Clémence
- 1PC-070** Crystal Size Dependence of Multicolor Luminescence of Trinuclear Gold Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KURODA, Yuki; ITO, Fuyuki; HISANO, Kyohei; TSUTSUMI, Osamu
- 1PC-071** Effects of Alkyl Chain Length on Luminescence Behavior of Gold(I) Complexes Based on Aliphatic Cyclic Hydrocarbons (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○OZAKI, Kazuhisa; HISANO, Kyohei; TSUTSUMI, Osamu
- 1PC-072** Odd-Even Effect of Substituted Alkyl Chain Length on Organic Semiconducting Properties of Tetrathienonaphthalenes (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○TANIGUCHI, Kimiya; YAMAMOTO, Atsushi; KUMEDA, Motoki; SUENAGA, Yu; MATSUI, Yasunori; ASADA, Toshio; OHTA, Eisuke; KOSEKI, Shiro; NAITO, Hiroyoshi; IKEDA, Hiroshi
- 1PC-073[#]** Interface imaging of cobalt stearate LB films (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ZHAO, Wenyang; SAKURAI, Kenji
- 1PC-074[#]** Physically deposited Nylon 6 thin film and the temperature response (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○LIU, Yuwei; SAKURAI, Kenji
- 1PC-075[#]** Synthesis of cyclic compounds and polymers via dynamic covalent chemistry-based topology transformation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○AOKI, Daisuke; TSURUMI, Nao; OTSUKA, Hideyuki
- 1PC-076[#]** Dynamic Photonic Crystals Mainly Composed of Water: Sensitive Changes of Structural Colors Exhibited by Thermoresponsive Phospholipid Bilayers (RIKEN CEMS) ○UCHIDA, Noriyuki; KENNY LOW, Zhi Wei; ISHIDA, Yasuhiro
- 1PC-077** Coinage-Metal-Free Plasmonic Nanoalloys in the Visible (ICR, Kyoto Univ.; TCMS, IMS) ○SATO, Ryota; IIDA, Kenji; KAWAWAKI, Tokuhisa; TERANISHI, Toshiharu
- 1PC-078[#]** Proposal of the revised sequence rule of P-94.2 of the IUPAC Rules for Nomenclature of Organic Chemistry for informatics (AIST) ○IZUMI, Hiroshi
- 1PC-079** Adsorption Dynamics at Air/Water Interface of Cationic Gemini Surfactants with Various Spacer Structures (Grad. Sch. Human. Sci., Nara Women's Univ.) ○MORITA, Tsukasa; YOSHIMURA, Tomokazu
- 1PC-080** Adhesive Properties of Cellulose Nanofibers added Poly(vinyl acetate) (Industrial Research Institute of Shizuoka Prefecture) ○KENJI, Maeda; SATOSHI, Sakuragawa; MASAOKI, Yamada
- 1PC-081** Synthesis of 2-Phenyl-2H-benzotriazole Derivatives Bearing Amino Groups and Their Excited-State Intramolecular Proton Transfer Properties (SHIPRO KASEI KAISHA, LTD.; Grad. Sch. Eng., Osaka Pref. Univ.) ○UESAKA, Toshiyuki; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-082** Computational analysis of relationship between molecular structure and properties of epoxy resin in coarse-grained models (Nippon Steel Chemical & Material Co., Ltd.) ○SHOJI, Naoyuki; YAMASHITA, Takefumi
- 1PC-083[#]** Synthesis and photo-luminescent properties of iridium complexes doped polymer dots (ISIR, Osaka Univ.) ○LIU, Zuoyue; OSAKADA, Yasuko
- 1PC-084[#]** Silver-Free Direct Synthesis of Alkynylphosphine Oxides via sp²-H/P(O)-H Dehydrogenative Coupling Catalyzed by Palladium (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○ZHANG, Jian-qiu; HAN, Li-biao
- 1PC-085[#]** Nucleophilic Substitution of Stereogenic Chlorophosphines and Stereoselective Conversions of Diastereomeric Secondary Phosphine Oxides to Tertiary Phosphine (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○YE, Jing-jing; HAN, Li-biao
- 1PC-086** Withdrawn
- 1PC-087** Properties of self-doped conductive polymers bearing phosphonic acid moieties (DAIHACHI CHEMICAL INDUSTRY CO., LTD.; Grad. Sch. Eng., Osaka Univ.; Fac. Mater. Sci. and Eng., KIT; ISIR, Osaka Univ.; CRM, Osaka Univ.; KFTRAL, KANEKA CORP.) ○DAIJO, Masato; ABE, Yasushi; DAO, Quang-duy; HANEOKA, Hitoshi; MURAKAMI, Yosuke; EGUCHI, Nao; INADA, Yuh; AMAYA, Toru; SUZUKI, Takeyuki; TSUJI, Ryotaro; HIRAO, Toshikazu
- 1PC-088** Synthesis of Poly(ionic liquid) Gels Containing Photoreactive Sandwich-Type Ruthenium Complexes (Grad. Sch. Sci., Kobe Univ.) ○SUMITANI, Ryo; MOCHIDA, Tomoyuki
- 1PC-089** Formation of Coordination Polymers by Photoreaction of Mixed Solutions Containing Ionic Liquids (Grad. Sch. Sci., Kobe Univ.) ○KUSAKABE, Takuya; MOCHIDA, Tomoyuki
- 1PC-090** One-shot desilylation and Glaser coupling of 9,10-bis(trimethylsilyl)anthracene on Cu(111) (Fac. of Eng., Okayama Univ. of Sci.) ○ORITA, Akihiro; KAWAI, Shigeki; FOSTER, Adam S.; OKUDA, Yasuhiro; MEYER, Ernst
- 1PC-091** Improvement of intermolecular interaction parameters for highly accurate molecular dynamics simulations (Nippon Steel Chemical and Material Co., Ltd.; RCAST, The Univ. of Tokyo) ○KOHEI, Sasaki; YAMASHITA, Takefumi

Electro-communications/Electronics

Electro-communications/Electronics

- 1PC-092** High Performance and Flexible Fluorescent Waveguide based on Elastic Organic Crystals (Dept. Appl. Chem., Nat. Def. Acad.) ○HAYASHI, Shotaro; MIKAGE, Syohei
- 1PC-093[#]** Synthesis and property of dinuclear organometallic molecular wires with higher acene linkers (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWANO, Reo; TANAKA, Yuya; AKITA, Munetaka
- 1PC-094[#]** Development of Dinuclear Organoplatinum(II) Complexes towards Control of Excimer Photoluminescence (Grad. Sch. Eng., Osaka Pref. Univ.) ○HOTEL, Junichi; YAMASHITA, Kouhei; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-095[#]** Novel Thermally Activated Delayed Fluorescent Material Having Arylsulfonyl Groups: Synthesis and iOLED Fabrication (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○YOKOYAMA, Yudai; ISHIHARAGUCHI, Kenta; MATSUI, Yasunori; OHTA, Eisuke; NAITO, Hiroyoshi; IKEDA, Hiroshi
- 1PC-096** Visualization of cascade reaction between enzyme and electroless plating (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ISHIKAWA, Shumpei; AKAMATSU, Naohide; ISLAM MD., Sirajul; OHYA, Yuichi; KUZUYA, Akinori
- 1PC-097** Development of Powder EL Using Invisible Silver-Grid Electrode (Fac. Eng., Tokyo Polytechnic Univ.) ○YANAGAWA, Kazuki; TAKEDA, Naoki; HASHIMOTO, Natsuki; OSAWA, Masato; TSUNEYASU, Shota; SATOH, Toshifumi
- 1PC-098** Optical, electrochemical properties of electrochromic device using invisible silver-grid electrode (Fac. Eng., Tokyo Polytechnic Univ.) ○KAWABUCHI, Miyuki; OKABE, Ayaka; HASHIMOTO, Natsuki; OSAWA, Masato; TSUNEYASU, Shota; SATOH, Toshifumi

Medical care/Health care/Biotechnology

Medical care/Health care/Biotechnology

- 1PC-099[#]** Synthesis and Properties of A-D-A-Type Bridged Bithiophene Dimers Showing Photosensitization of Singlet Oxygen Generation (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○HAYASHI, Yuichiro; GOTO, Yusuke; MAEDA, Takeshi; YAGI, Shigeyuki; ENOKI, Toshiaki; OYAMA, Yousuke; OHSHITA, Joji
- 1PC-100[#]** A-D-A-Type Dithienosilole Dimers Exhibiting Light Absorption and Emission in the First Biological Window (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○MORIMOTO, Ami; HAYASHI, Yuichiro; YAGI, Shigeyuki; MAEDA, Takeshi; ENOKI, Toshiaki; OYAMA, Yousuke; OHSHITA, Joji
- 1PC-101[#]** Development of gold nanoparticle-based affinity labeling probes for target protein analysis (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUTO, Nanako; UMEZAWA, Takumi; SAKURAI, Kaori
- 1PC-102[#]** Development of gold nanoparticle-based click-photocapture agents for target protein identification (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MORI, Kanna; KOBAYASHI, Naohiro
- 1PC-103** Development of highly pliable biodegradable polymer and its application to small-diameter vascular graft (Toray Industries, Inc.) ○KOGAWA, Taisuke; KADOWAKI, Koji; FUJITA, Masaki; SAKAGUCHI, Yuka; SAKAGUCHI, Hirokazu; TANAHASHI, Kazuhiro; MIWA, Keishi
- 1PC-104** Exploration of selective cytotoxic molecules under nutrient starvation conditions from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○NAGAYA, Yuki; MUKOUHATA, Issei; MATSUNO, Kenji; OHNO, Osamu
- 1PC-105** Dynamic nuclear polarization in water using photo-excited triplet electrons (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○NISHIMURA, Koki; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 1PC-106** Screening for inhibitors of ER stress-mediated apoptosis from marine organisms. (Sch. Adv. Eng., Kogakuin Univ.) ○KEIGO, Sato; RYO, Honma; KENJI, Matsuno; OSAMU, Ohno
- 1PC-107** Structural Analysis of Foams of Amine Acid-Type Surfactant by Small Angle Neutron Scattering (Grad. Sch. Human. Sci., Nara Women's

- Univ.; NOF CORPORATION; Kracie Home Products, Ltd.; Grad. Sch. Sci. Eng., Ibaraki Univ.) ○YADA, Shihō; YOSHIMURA, Tomokazu; SHIMOSEGAWA, Hiroshi; FUJITA, Hiroya; MATSUE, Yukako; KOIZUMI, Satoshi
- 1PC-108[#]** Rapid analysis of the differences of the separation profiles based on mAb's glycoforms at each cell culturing day with new FcR-Column (Tosoh) ○TERAO, Yosuke; Otake, Ryoko; YAMANAKA, Naoki
- 1PC-109[#]** Surface coating on cotton fabric: super absorbent, non-adsorbing cell, high stability (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Ryuki; WANG, Jian; MUTO, Jun; SHIRATORI, Seimei
- 1PC-110[#]** Process monitoring in Cell Culture using Ultrasonic-assisted Spectroscopy (Research & Development Group, Hitachi, Ltd.) ○NOJIMA, Akihiro; KONOI, Shunsuke; NOGUCHI, Toshimitsu; KAMBAYASHI, Takuya
- 1PC-111** Enhancing nuclear spin polarization of water using triplet-DNP based on new polarizing agents (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○KAWASHIMA, Yusuke; FUJIWARA, Saiya; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 1PC-112** Design of Temperature-responsive Self-assemblies Composed of Amphiphilic Liquid Crystalline Polymers and Their Drug Release Behavior (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HIRANO, Yuki; INOUE, Yasuaki; KAWAMURA, Akiyumi; MIYATA, Takashi
- 1PC-113** Synthesis of Stimuli-Responsive Sol-Gel Phase Transition Polymers with Metal Complexes as Dynamic Crosslinks and Their Applications as Cell Culture Scaffolds (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○IDE, Ayaka; KAWAMURA, Akiyumi; MIYATA, Takashi
- 1PC-114[#]** Comprehensive Determination of the Absolute Configurations of a Series of Novel Bitter Compounds Derived from Hop (*Humulus lupulus* L.) by the Crystalline Sponge Method (Cent. Lab. for Key Tech., Kirin Co. Ltd.; App. Lab., Rigaku Corp.; Grad. Sch. Eng., The Univ. of Tokyo; IMS) ○TANIGUCHI, Yoshimasa; KIKUCHI, Takashi; FUJITA, Makoto
- 1PC-115[#]** Development of spontaneously blinking fluorophores based on nucleophilic addition of intracellular glutathione for super-resolution imaging (Grad. Sch. Pharm., The Univ. of Tokyo) ○MOROZUMI, Akihiko; KAMIYA, Mako; UNO, Shin-nosuke; UMEZAWA, Keitaro; YOSHIHARA, Toshitada; TOBITA, Seiji; URANO, Yasuteru
- 1PC-116** Synthesis and biological functions of immunomodulatory complex-lipid middle molecules (Grad. Sch. Sci. Tech., Keio Univ.) ○ARAI, Yohei; AIBA, Toshihiko; SAITO, Ryota; HIRATA, Natsumi; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
- 1PC-117[#]** Chiral recognition of carboxylic acids using an achiral Ni(II) complex of pyridine-benzimidazole-based ligand (Grad. Sch. Sci., Eng., Yamagata Univ.) ○KUBOTA, Atsuko; ABE, Chihiro; HOSHINO, Nanami; KATAGIRI, Hiroshi
- 1PC-118[#]** Coating and Functionalization of DNA-origami Nanostructure for Biomedical Applications (Grad. Sch. Eng., The Univ. of Tokyo) ○P.K. Hashim; KOHATA, Ai; STEPHANOPOULOS, Nicholas
- 1PC-119[#]** Text-Displaying Competitive Lateral Flow Immunoassay Enabling Naked-Eye Semiquantitative Analysis (Grad. Sch. Sci. Tech., Keio Univ.; Techno Medica Co., Ltd.) ○MISAWA, Kazushi; WATANABE, Daiki; YAMAMOTO, Tomohiro; HIRUTA, Yuki; YAMAZAKI, Hiroki; CITTERIO, Daniel
- 1PC-120** Preparation of Blood Compatible Polymer brushes with Controlled Grafting Density and Evaluation of Functionality (Grad. Sch. Eng., Kyushu Univ.) ○UEDA, Tomoya; MURAKAMI, Daiki; KOBAYASHI, Shingo; TANAKA, Masaru
- 1PC-121[#]** Development of Aminoacetylene Derivatives for Effective Synthesis of Organonitrogen Bioactive Compounds (Fac. of Eng., Okayama Univ. of Sci.) ○OKUDA, Yasuhiro; SEO, Tomoyo; SHIGEZANE, Yuki; ORITA, Akihiro
- 1PC-122** Development of 2' -β Seleno Nucleoside Analogs as Irreversible Inhibitors for Viral Reverse Transcriptase (Grad. Sch. Sci., Nagoya Univ.) ○KIMURA, Yasuaki; NIIMI, Yushi; KATAKURA, Hideo; TOMOIKE, Fumiaki; SUZUKI, Tetsuro; MURAKAMI, Tsutomu; KODAMA, Eiichi; ABE, Hiroshi
- 1PC-123[#]** Cancer Specific Fluorescence Imaging by the Development of Fluorescent Probes for Glycosidase Activities (Grad. Sch. Med., The Univ. of Tokyo) ○FUJITA, Kyohhei; KAMIYA, Mako; YOSHIOKA, Takafusa; NAKAJIMA, Jun; UEO, Hiroaki; URANO, Yasuteru
- 1PC-124[#]** Development of ultrafast DNA/RNA photo-cross-linker and its biological application (Sch. Mat. Sci., JAIST) ○MIHARA, Junichi; SASAGO, Shinobu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 1PC-125[#]** Drug efficacy estimation based on dynamic ligand-receptor-G protein interactions (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIGUCHI, Tomoki; YOSHIMURA, Hideaki; OZAWA, Takeaki
- 1PC-126[#]** Highly sensitive antibody-associated fluorescence sensing materials capable of intact exosomes recognition for cancer diagnosis (Grad. Sch. Eng., Kobe Univ.) ○MORI, Kisho; KATAYAMA, Wataru; SHIMIZU, Taku; MINAMOTO, Kazuaki; MORISHIGE, Takahiro; TAKANO, Eri; KITAYAMA, Yukiya; TAKEUCHI, Toshihumi
- 1PC-127** Development of a DNA origami DDS carrier (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MANO, Yuki; ISHIKAWA, Shumpei; YAMASAKI, Yuta; OHYA, Yuichi; KUZUYA, Akinori
- 1PC-128[#]** Studies on synthesis and evaluation of peptide-polyamine conjugate from marine origin (Grad. Sch. Nanobiosci., Yokohama City Univ.) MIYAHARA, Masayoshi; ○IRIE, Raku; OIKAWA, Masato
- 1PC-129** Spectral properties of silver-phthalocyanine adsorbed on smectite in aqueous media (GREEN, NIMS) ○ISAGO, Hiroaki; FUJITA, Harumi; SUGIMORI, Tamotsu
- 1PC-130** Development of Metal (Au, Pt) Nanoparticle-Latex Nanocomposites as Detection Probes with Enhanced Sensitivity for Immunochromatographic Test Strips (NIPPON STEEL Chemical & Material Co., Ltd.) ○MATSUMURA, Yasufumi; ENOMOTO, Yasushi; TAKAHASHI, Mari; MAENOSONO, Shinya
- 1PC-131[#]** Protein synthesis control in cell-free system (Hitachi, Ltd. R & D Group) ○SENDA, Naoko; ZHANG, Roulan; NISHIDA, Hirokazu
- 1PC-132** The therapeutic effect of low molecular weight whey protein against bovine mastitis (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○IZUCHI, Yuka; TASAKA, Toru; NISHIGAWA, Ryohei; NAKAMURA, Yuta; BANDO, Kohei; YAMADA, Hisatsugu; MAEHASHI, Katsuhiko; UNUMA, Hideki; TOKUNAGA, Ken; HAYAKAWA, Akio; GO, Akiteru; GO, Kikyo; UTO, Yoshihiro
- 1PC-133** Synthesis and Mechanical Property Evaluation of High Elasticity and Insoluble Gelatin Gels (Fac. Eng., FIT) KUWAHARA, Junko; ○TASHIRO, Akihiro; KOBAYASHI, Keisuke; HASHIGUCHI, Fumiyu
- 1PC-134** Moment Analysis of Solute Permeation Kinetics at Interface of Spherical Molecular Aggregates (Coll. Sci., Rikkyo Univ.) ○SENOO, Shiori; OKAYASU, Nanami; MIYABE, Kanji; SUZUKI, Nozomu
- 1PC-135** Thermal properties of organogel prepared by a rice bran wax using polarizing microscopy, rheology measurements and DSC, and its application in cosmetics. (Milbon Co., Ltd.) ○IGUCHI, Ryo; TAKINO, Yusuke; HORIUCHI, Teruo
- 1PC-136** Synthetic Study of Funiculosin Analogues for Development of Innate Immune Receptor TLR4/MD-2 Agonist (Grad. Sch. Sci. Tech., Keio Univ.) ○YAMAGUCHI, Ryosuke; ZUI, Naoto; SATO, Keisuke; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
- 1PC-137[#]** Development of a rapid magnetic immunostaining method using antibody-coated fluorescence magnetic beads (Sch. Life Sci. Tech., Tokyo Tech.; Sch. Med., Keio Univ.; Grad. Sch. Eng., The Univ. of Tokyo; Matrix Cell Res. Institute Inc.; Dpt. Nanoparticle Trans. Res., Tokyo Med. Univ.) ○SAKAMOTO, Satoshi; MATSUDA, Sachiko; TSURUMA, Akinori; ONISHI, Tatsuya; KUWAHATA, Akihiro; SEKINO, Masaki; KUSAKABE, Moriaki; KITAGAWA, Yuku; HANDA, Hiroshi
- 1PC-138** Fabrication of densely-packed silver nanoparticle ultra thin-films by liquid-liquid interfacial precipitation method and their photochemical properties (Sch. Eng., The Univ. of Shiga Pref.) ○KOYAMA, Natsuki; AKIYAMA, Tsuyoshi; OKU, Takeo
- 1PC-139[#]** Synthesis and evaluation of artificial glutamate analogs (Grad. Sch. Nanobiosci., Yokohama City Univ.) TSUKAMOTO, Shuntaro; IRIE, Raku; ○OIKAWA, Masato
- 1PC-140** Synthetic study of N-linked oligosaccharide with lactam structure (Sch. Sci., Osaka Univ.) ○MORIGUCHI, Tatsuya; MATSUNO, Tsuyoshi; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Featured topic: New frontiers in catalysis

Featured topic: New frontiers in catalysis

- 1PC-141** Field Effect Control of Catalytic Activity via Ionic Liquid Gating (NIMS) ○KAWASAKI, Seiji; ABE, Hideki; ABHJIT, Chatterjee
- 1PC-142[#]** NH₃ combustion properties of CuOx/3Al₂O₃ · 2SiO₂ catalysts (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○HINOKUMA, Satoshi; KIRITOSHI, Saaya; ARAKI, Kento; MACHIDA, Masato
- 1PC-143** Fabrication of a highly visible light responsive titanium dioxide by separated the photogenerated carriers trap site by controlled the valence states of metal ions (ISIR, Osaka Univ.) ○NISHIYAMA, Naoto; FUJITSUKA, Mamoru; MAJIMA, Tetsuro; YAMAZAKI, Suzuki
- 1PC-144** Solar-driven CO₂ reduction coupling with H₂O oxidation by earth-abundant Mn complex and Fe oxyhydroxide catalysts (Toyota Central R&D Labs., Inc.) ○SEKIZAWA, Keita; ARAI, Takeo; SATO, Shunsuke; SUZUKI, Tomiko; MORIKAWA, Takeshi
- 1PC-145[#]** Aerobic Toluene Oxidation by Subnanocatalysts (IIR, Tokyo Tech.) ○HUDA, Miftakul; MINAMISAWA, Keigo; TSUKAMOTO, Takamasa; TANABE, Makoto; YAMAMOTO, Kimihisa
- 1PC-146[#]** Factors Affecting the Catalytic Performance for NO Direct Decomposition on Several Cu-Zeolite Catalysts (IIS, The Univ. of Tokyo) ○OHATA, Yusuke; MOTTEKI, Takahiko; OGURA, Masaru
- 1PC-147[#]** New Insight into Propylene Formation on MTO Reaction over ZSM-5 via Transient Kinetic Analysis (Grad. Sch. Eng., The Univ. of Tokyo) ○HIDAKA, Kai; MOTTEKI, Takahiko; OGURA, Masaru
- 1PC-148** Highly Efficient Water Splitting over AgTaO₃ of a Valence Band Controlled Photocatalyst (Fac. Sci., TUS) ○WATANABE, Kenta; IWASE, Akihiko; KUDO, Akihiko
- 1PC-149** Ionic liquid catalysts for efficient synthesis of esters under mild conditions (RCPT, AIST) ○KOHNO, Yuki; MAKINO, Takashi; KANAKUBO, Mitsuhiro
- 1PC-150** Development of ligand-free Suzuki-Miyaura coupling reaction of aryl chlorides using glass-supported Pd nanoparticle catalyst under continuous

Room A3

Bldg. 1 131

Physical Chemistry -Structure-

Saturday, March 16, AM

Magnetic Resonance

Chair: MORISAWA, Yusuke (9 : 10 ~ 10 : 10)

* 9:00-9:10: interval for laptop PC connection.(1A3-02, 1A3-03, 1A3-04, 1A3-05, 1A3-06, 1A3-07)

- microwave irradiation (Grad. Sch. Pharm. Sci., Osaka Univ.) OYAMADA, Makito; AKIYAMA, Toshiki; OHKI, Yuta; TAKAHASHI, Naoyuki; HONNMA, Tetsuo; MURAI, Kenichi; ARISAWA, Mitsuhiro
- 1PC-151** Precise synthesis of metal oxide-protected gold cluster catalysts (Fac. Sci., TMU) OSHIBUSAWA, Kazuki; NEGISHI, Yuichi; TSUKUDA, Tatsuya; YAMAZOE, Seiji
- 1PC-152** Catalytic Application of Metal-Metal Oxide Cluster $M_4-Mo_4O_{16}$ ($M = Ru, Rh$) (Fac. Sci., TMU) OKOJIMA, Taku; MIURA, Hiroki; SHISHIDO, Tetsuya; TAKAYA, Hikaru; YAMAZOE, Seiji
- 1PC-153** Acceleration of aromatic C-H borylation reaction by concerted catalysis of silica immobilized Ir catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) OMAEDA, Kyogo; UEMURA, Youhei; CHUN, Wang-jae; MANAKA, Yuichi; MOTOKURA, Ken
- 1PC-154** Dry reforming of methane at low temperature under visible light (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) OTAKAMI, Daichi; ITO, Yoji; YAMAMOTO, Akira; YOSHIDA, Hisao
- 1PC-155** Rh complex and tertiary amine co-immobilized on mesoporous silica for efficient 1,4-addition reaction of phenylboronic acid (Sch. Mater. & Chem. Tech., Tokyo Tech.) HASHIGUCHI, Kohei; MAEDA, Kyogo; CHUN, Wang-jae; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken
- 1PC-156** Oxygen Evolution under Visible Light Irradiation using $BiVO_4$ Photocatalyst Powder and Photoelectrode prepared from Exfoliated Vanadate Nanosheets (Fac. Sci., TUS) SOONTORNCHAIYAKUL, Wasusate; IWASE, Akihiko; KUDO, Akihiko
- 1PC-157** Solid Acid Catalysis of Montmorillonite for Direct Aromatic Alkylation with Alkane (Sch. Mater. & Chem. Tech., Tokyo Tech.) OTAKABATAKE, Moe; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken
- 1PC-158[#]** Organophotoredox and Chiral Chromium Hybrid Catalysis for Catalytic Asymmetric Allylation of Aldehydes with Unactivated Alkenes (Grad. Sch. Pharm., The Univ. of Tokyo) OMITSUNUMA, Harunobu; TANABE, Syun; FUSE, Hiromu; OHKUBO, Kei; KANAI, Motomu
- 1PC-159** Hydrosilylation of allyl chloride catalyzed by a Rh complex bearing a bidentate-phosphine ligand (IRC3, AIST) OINOMATA, Koya; SATO, Kazuhiko; NAKAJIMA, Yumiko
- 1PC-160** Development of nickel-catalyzed cross coupling of chlorosilanes with organoaluminum reagents (IRC3, AIST) ONAGANAWA, Yuki; GUO, Haiqing; SAKAMOTO, Kei; NAKAJIMA, Yumiko
- 1PC-161** Catalysis of supported Pd complex and base additive for allylation of nucleophiles producing water as sole byproduct (Sch. Mater. & Chem. Tech., Tokyo Tech.) OKAWASHIMA, Sae; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken
- 1PC-162** Z-schematic Water Splitting under Visible Light Irradiation Using Metal Complex Electron Shuttles Prepared at Various Conditions (Fac. Sci., TUS) ONATSUME, Shuhei; YOSHINO, Shunya; IWASE, Akihiko; KUDO, Akihiko
- 1PC-163** Investigation on the Support Structure Design and Chemical Environmental Response of Polymer-Supported Half-Metalocene Catalysts (Sch. Adv. Sci. Tech., JAIST) OMIZUTANI, Yuta; THAKUR, Ashutosh; WADA, Toru; TANIKE, Toshiaki
- 1PC-164** Polystyrene-supported Metal Free Catalyst for Transesterification (IRC3, AIST) OTANAKA, Shinji; OGAWA, Atsuko; NAKASHIMA, Takuya; KON, Yoshihiro; TAMURA, Masanori; SATO, Kazuhiko
- 1PC-165** Improvement of CO_2 recycling reaction using water as a reductant by semiconductor/metal complex hybrid photoelectrode (Sch. Sci., Tokyo Tech.) OKAMATA, Ryutaru; KUMAGAI, Hiromu; YAMAZAKI, Yasuomi; IWASE, Yukari; HIGASHI, Masanobu; ABE, Ryu; ISHITANI, Osamu
- 1PC-166[#]** Reaction mechanisms on CO_2 addition to cyclic ether and unsaturated alcohol over methylated nitrogen-substituted SBA-15 revealed by kinetic analysis (IIS, The Univ. of Tokyo) OYAMAZAKI, Kiyoyuki; MOTEKI, Takahiko; OGURA, Masaru
- 1PC-167[#]** New Amino Alcohol Organocatalyst for Asymmetric Michael Addition of β -Keto Ester with Nitroolefin (Grad. Sch. of Eng., Muroran Inst. of Tech.) OBHUSSE, Manmath; SEKI, Chigusa; UWAI, Koji; NAKANO, Hiroto
- 1PC-168[#]** β -amino alcohol organocatalyst for asymmetric hetero-Diels Alder reaction of isatins and enones (Grad. Sch. of Eng., Muroran Inst. of Tech.) OPARASURAMAN, Perumalsamy; SEKI, Chigusa; UWAI, Koji; NAKANO, Hiroto
- 1PC-169[#]** Sugar based γ -amino alcohol organocatalyst for the enantioselective Michael addition of β -keto esters with nitroolefins (Grad. Sch. of Eng., Muroran Inst. of Tech.) OGANESAN, Divakar; SEKI, Chigusa; UWAI, Koji; HIROTO, Nakano
- 1PC-170** Creation of artificial proteins having novel function by introducing functional molecules in the vicinity of active sites in enzymes (Appl. Chem. KIT) OTAMURA, Kazuhiko; HATAKEYAMA, Takahiro; KOGA, Masato; KURODA, Hirofumi; OYAMA, Hiroshi; ONO, Shin

- 1A3-02** An electronic structure of a nitroxide diradical with a ferrocen-1,1'-diyl-substituted 1,3-diazetidino-2,4-diimine coupler as studied by multi-frequency ESR spectroscopy (Grad. Sch. Sci., Osaka City Univ.) OTANAKA, Koudai; MATSUOKA, Hideto; SUGISAKI, Kenji; BAGRYANSKAYA, Irina; GURSKAYA, Larisa; TRETYAKOV, Evgeny; TAKUI, Takeji; SATO, Kazunobu
- 1A3-03** High resolution solid-state NMR under high pressure gas atmosphere (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) OINUKAI, Munehiro; KURIHARA, Takuya; NODA, Yasuto; KIKKAWA, Akira; NAKAMURA, Koichi
- 1A3-04** Molecular spin manipulation by pulsed ESR technique with arbitrary waveform pulse (Grad. Sch. Sci., Osaka City Univ.; International Tomography Center) OSATO, Kazunobu; HIRAO, Rei; YAMAMOTO, Satoru; IVANOV, Konstantin; TAKUI, Takeji
- 1A3-05** Molecular Orientation and Dynamics of Large TEMPO Derivatives in CLPOT Nanochannels (Dep. Arts and Sci., Showa Univ.) OKOBAYASHI, Hirokazu
- 1A3-06** Comparison of tetramethylbenzobis(dioxole) derivatives on triplet state via photo-excitation or electrolytic redox reaction (KIT) OMIYAKE, Yusuke; HIROSE, Naoto; FAN, Xinyu; KANAORI, Kenji; TAJIMA, Kunihiko
- 1A3-07** First Principles Calculation on Zero-Field-Splitting of O₂-Encapsulated Fullerene Type Molecules (Sch. Mater. & Chem. Tech., Tokyo Tech.) OYAMADA, Shusuke; FUTAGOISHI, Tsukasa; MURATA, Yasujiro; TADA, Tomofumi

Electronic Spectroscopy, Electron Spectroscopy, Electronic States

Chair: KOBAYASHI, Hirokazu (10 : 20 ~ 11 : 20)

* 10:10-10:20: interval for laptop PC connection.(1A3-09, 1A3-10, 1A3-12, 1A3-13, 1A3-14)

- 1A3-09** Spectroscopic investigations for long-chain alcohol (Fac. Sci. Eng., Kindai Univ.) OMORISAWA, Yusuke; KOBAYASHI, Misa
- 1A3-10^{**}** Changes in electronic states of PEG in PEG-Alkaly metal complex by kinds of anions (Grad. Sch. Sci. Eng., Kindai Univ.) OUENO, Nami; MORISAWA, Yusuke; WAKABAYASHI, Tomonori; SATO, Harumi
- 1A3-12** Determination of pH Dependent Structure of Thymol Blue (Fac. Edu., Hirosaki Univ.) OSHIMADA, Toru; TOCHINAI, Kurumi; HASEGAWA, Takeshi
- 1A3-13** Theoretical study on relationship between open-shell character and nonlinear optical properties of carbazole oligomers in the neutral and electron oxidation states (Sch. Eng. Sci., Osaka Univ.) OKADA, Saki; KISHI, Ryohei; NAKANO, Masayoshi
- 1A3-14** Two-photon absorption spectra of chlorodiphenylacetylenes by optical-probing photoacoustic spectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) OISHII, Tetsuro; ANDO, Saki; ISOZAKI, Tasuku; KASHIHARA, Wataru; SUZUKI, Tadashi

Chair: SHIMADA, Toru (11 : 30 ~ 12 : 30)

* 11:20-11:30: interval for laptop PC connection.(1A3-16, 1A3-17, 1A3-19, 1A3-20, 1A3-21)

- 1A3-16** Theoretical study on the conformational dependence of open-shell characters, charge asymmetry and nonlinear optical properties of asymmetric bianthrone derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) OKITANO, Shoma; KISHI, Ryohei; HIRAO, Yasukazu; KUBO, Takashi; NAKANO, Masayoshi
- 1A3-17^{**}** Photoionization of excited states of rare gas atoms prepared by electron impact excitation (Grad. Sch. Sci., The Univ. of Tokyo) OHIROI, Takashi; MORIMOTO, Yuya; KANYA, Reika; YAMANOUCHI, Kaoru
- 1A3-19[#]** Sub-micron focusing of soft x-ray high-order harmonics for time-resolved measurements of two-photon double ionization processes (Grad. Sch. Sci., The Univ. of Tokyo) OMOTOYAMA, Hiroto; IWASAKI, Atsushi; SATO, Takahiro; TAKEI, Yoshinori; KUME, Takehiro; EGAWA, Satoru; MIMURA, Hidekazu; YAMANOUCHI, Kaoru
- 1A3-20** Surface electronic structure of $Fe_2P(0001)$ (Grad. Sch. Sci., Rikkyo Univ.) OYOSHIDA, Tomoya; SUGIZAKI, Yuichi; SHIMATO, Yuki; MAEJIMA, Naoyuki; EDAMOTO, Kazuyuki
- 1A3-21** Effect of P segregation on the surface electronic structure of $Fe_2P(10-10)$ (Grad. Sch. Sci., Rikkyo Univ.) OSHIMATO, Yuki; SUGIZAKI,

Yuichi; YOSHIDA, Tomoya; MAEJIMA, Naoyuki; EDAMOTO, Kazuyuki

Saturday, March 16, PM

Surface and Interface

Chair: SASAHARA, Akira (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1A3-29, 1A3-32, 1A3-34)
- 1A3-29[#]** Young Scholar Lectures of CSJ In-situ Spectroscopic Observation of Electrochemical Reactions Triggered by Interfacial Restructuring in Ionic Liquids (Grad. Sch. Eng., Nagoya Inst. of Tech.)
○MOTOBAYASHI, Kenta
- 1A3-32^{**}** Ion species dependence of hysteresis behavior at the interfaces of Pt electrode and ionic liquids (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○IWAHASHI, Takashi; ZHOU, Sei; KIM, Doseok; OUCHI, Yukio
- 1A3-34** Analysis of local structure and dynamics of interfacial ionic liquid close to the edge of graphite by molecular dynamics calculation (Grad. Sch. Eng. Sci., Osaka Univ.) ○YONEKAWA, Masaki; TANABE, Ichiro; FUKUI, Ken-ichi; MORIKAWA, Yoshitada; INAGAKI, Kouji
- Chair: WATANABE, Kazuya (14 : 50~16 : 00)
- * 14:40-14:50: interval for laptop PC connection.(1A3-36, 1A3-37, 1A3-38, 1A3-39, 1A3-41)
- 1A3-36** Structure and dynamics of ionic liquid facing to the charged organic semiconductors analyzed by MD simulation (Grad. Sch. Eng. Sci., Osaka Univ.) ○SATO, Taiki; MIYAMOTO, Hiroo; TANABE, Ichiro; INAGAKI, Kouji; MORIKAWA, Yoshitada; FUKUI, Ken-ichi
- 1A3-37** Frequency Modulation AFM Analysis of Fe₂O₃(0001) Surfaces in Solvents (Grad. Sch. Sci., Kobe Univ.) ○SASAHARA, Akira; MORIGUCHI, Shiho; KOKAWA, Ryohei; TSUJIMOTO, Teppei; ONISHI, Hiroshi
- 1A3-38** Diffusion of Mg²⁺ ion in ionic liquid thin films studied by depth analysis using X-ray photoelectron spectroscopy (Grad. Sch. Eng. Sci., Osaka Univ.) ○KATAYAMA, Chiaki; TAKAHASHI, Akihiro; TANABE, Ichiro; IMANISHI, Akihito; FUKUI, Ken-ichi
- 1A3-39^{**}** Heterogeneity at Amorphous Silica/Water Interface: Molecular Dynamics Simulations of Sum Frequency Generation Spectroscopy (Coll. Eng., Ibaraki Univ.) ○JOUTSUKA, Tatsuya; MORITA, Akihiro
- 1A3-41^{**}** Surface segregation of P on Fe₂P(0001) by annealing process with valence band electronic structure changes (Coll. Sci., Rikkyo Univ.)
○MAEJIMA, Naoyuki; SHIMATO, Yuki; SUGIZAKI, Yuichi; YOSHIDA, Tomoya; EDAMOTO, Kazuyuki

Chair: IWAHASHI, Takashi (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1A3-44, 1A3-45, 1A3-46, 1A3-48, 1A3-49)
- 1A3-44[#]** Mechanism of Water Bending Bands at the Charged Interfaces Observed by Heterodyne-Detected Sum Frequency Generation: Quadrupole Contribution (Molecular Spectroscopy Lab., RIKEN) ○MOHAMMED, Ahmed; NIHONYANAGI, Satoshi; TAHARA, Tahei
- 1A3-45[#]** Vibrational relaxation dynamics of OH stretch of water at air/H₂O interface investigated by time-resolved heterodyne-detected vibrational sum-frequency generation spectroscopy (Molecular Spectroscopy Lab., RIKEN; RIKEN RAP) ○SUNG, Woongmo; INOUE, Ken-ichi; NIHONYANAGI, Satoshi; TAHARA, Tahei
- 1A3-46^{*}** Thickness dependence of ice surface structure grown on Rh(111) (Dep. Chem., Sch. Sci., Kyoto Univ.; Center for Mesoscopic Sci., IMS; PRESTO, JST; The Toyota Physical and Chemical Research Institute) ○OTSUKI, Yuji; ○WATANABE, Kazuya; SUGIMOTO, Toshiki; MATSUMOTO, Yoshiyasu
- 1A3-48** Amorphous ice surfaces observed with heterodyne-detected sum frequency generation spectroscopy (Grad. Sch. Sci., Eng., Saitama Univ.; AMCP, NIMS) ○YAMAMOTO, Kouta; NOJIMA, Yuki; SUZUKI, Yoshiharu; YAMAGUCHI, Shoichi
- 1A3-49** Total reflection high energy positron diffraction study of the structure of the VO film on Ag(100) (Grad. Sch. Sci., Rikkyo Univ.) ○SUGIMOTO, Riki; SUGIZAKI, Yuichi; EDAMOTO, Kazuyuki; MAEJIMA, Naoyuki; MOCHIZUKI, Izumi

Sunday, March 17, PM

Gas Phase Spectroscopy

Chair: HIROTA, Eizi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2A3-25, 2A3-26, 2A3-28, 2A3-30)
- 2A3-25** Laser spectroscopic study on jet-cooled 7, 7, 8, 8-tetracyanoquinodimethane (TCNQ) (Grad. Sch. Sci., Hiroshima Univ.) ○CHAKI, Nobumasa; IIDA, Yuji; KENJO, Seiya; MURAMATSU, Satoru; INOKUCHI, Yoshiya; IIMORI, Toshifumi; EBATA, Takayuki
- 2A3-26^{**}** Rotationally-resolved high-resolution laser spectroscopy of S₁-S₀ transition of fluorene: Perturbation in the S₁ state (MPRC, Kobe Univ.)
○KASAHARA, Shunji; KURODA, Shinji
- 2A3-28^{*}** Jet spectroscopy of metal containing free radicals (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○FUKUSHIMA, Masaru; ISHIWATA, Takashi

- 2A3-30** Two-dimensional correlation IR spectroscopy of acetylene large clusters (Fac. Sci., Shizuoka Univ.) RYO, Suzuki; NOMA, Souta;
○MATSUMOTO, Yoshiteru

Chair: KASAHARA, Shunji (14 : 10~15 : 00)

- * 14:00-14:10: interval for laptop PC connection.(2A3-32, 2A3-34, 2A3-35)
- 2A3-32^{**}** Local structure analysis of heme protein by resonance Raman spectroscopy in the gas phase (Fac. Sci., Gakushuin Univ.) ○ASAMI, Hiroya; KAWAUCHI, Norishi; KAWABATA, Rina; KOHNO, Jun-ya
- 2A3-34** Gas phase CD spectroscopy of albumin ion by using IR-laser ablation of droplet beam (Fac. Sci., Gakushuin Univ.) ○KITAZAKI, Akihiro; ASAMI, Hiroya; KOHNO, Jun-ya
- 2A3-35^{**}** Double-minimum potential in molecular chirality (SOKENDAI)
○HIROTA, Eizi

Chair: MATSUMOTO, Yoshiteru (15 : 10~16 : 00)

- * 15:00-15:10: interval for laptop PC connection.(2A3-38, 2A3-40, 2A3-41, 2A3-42)
- 2A3-38^{**}** Collision-induced absorption of oxygen molecule as studied by highly sensitive absorption spectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.)
○KASHIHARA, Wataru; KAWAI, Akio
- 2A3-40[#]** Development of laser-induced molecular alignment and orientation simulator (LIMAO) and its application to field-free alignment of polyatomic molecules (Grad. Sch. Sci., The Univ. of Tokyo) ○MAHO, Jono; TAMAS, Sdzidarovszky; ATUSHI, Iwasaki; KAORU, Yamanouchi
- 2A3-41** Solvation-structural influence on stability of benzoxazole clusters (Fac. Sci., Fukuoka Univ.) ○YAMADA, Yuji; NIBU, Yoshinori
- 2A3-42[#]** Production of cryogenic molecular ions in superfluid He droplets (RIKEN) ○IGUCHI, Arisa; KUMA, Susumu; AZUMA, Toshiyuki

International Symposium on Molecular Science - Physical Chemistry / Theoretical Chemistry, Chemoinformatics, Computational Chemistry - Cosponsored by Japan Society for Molecular Science
Monday, March 18, AM

(9 : 00 ~ 9 : 10)

- 3A3-01[#]** Opening Remarks / Closing Remarks Opening address (RIKEN) ○Tahara, Tahei (09:00~09:10)

Chair: Ohshima, Yasuhiro (9 : 10~10 : 30)

- 3A3-02[#]** Invited Lecture Frequency and time-domain study on cold gas-phase functional molecules (Hiroshima Univ.) ○Ebata, Takayuki (09:10~09:50)
- 3A3-06[#]** Asia Special Lecture Conformation-specific circular dichroism spectroscopy of jet-cooled molecules and clusters (Chungbuk National Univ.) ○Kim, Nam Joon (09:50~10:30)

Chair: Fujii, Masaaki (10 : 40~12 : 00)

- 3A3-11[#]** Asia Special Lecture Photoisomerization of biochromophores in the gas phase (Univ. of Melbourne) ○Bieske, Evan J. (10:40~11:20)
- 3A3-15[#]** Invited Lecture Crown ether complexes studied by cold, gas-phase spectroscopy: relationship between structures and functions (Hiroshima Univ.) ○Inokuchi, Yoshiya (11:20~11:40)
- 3A3-17[#]** Invited Lecture Ultrafast time-domain vibrational spectroscopy of complex molecular systems (RIKEN; PRESTO, JST) ○Kuramochi, Hikaru (11:40~12:00)

Monday, March 18, PM

Chair: Tachikawa, Masanori (13 : 00~14 : 20)

- 3A3-25[#]** Asia Special Lecture Learning vibrational coupling in protonated species from the dark states in IRPD (Academia Sinica) ○Kuo, Jer-Lai (13:00~13:40)
- 3A3-29[#]** Invited Lecture Promotion of homogeneous ice nucleation by soluble molecules (Shinshu Univ.) ○Mochizuki, Kenji (13:40~14:00)
- 3A3-31[#]** Invited Lecture Ab initio molecular dynamics study of hydration structure of trimethylamine N-oxide and urea (Osaka Univ.) ○Ohto, Tatsuhiko (14:00~14:20)

Chair: Hishikawa, Akiyoshi (14 : 30~15 : 50)

- 3A3-34[#]** Keynote Lecture Ultrafast radiation chemistry: Femtosecond electronic relaxation and coherent vibrational dynamics of ionized aqueous solutions (Nanyang Technological Univ.) ○Loh, Zhi-Heng (14:30~15:10)
- 3A3-38[#]** Invited Lecture Probing ultrafast dynamics during and after passing through conical intersections (Kyoto Univ.) ○Adachi, Shunsuke (15:10~15:30)
- 3A3-40[#]** Invited Lecture Water migration dynamics in hydrated clusters -Real-time observation by time-resolved IR spectroscopy- (Tokyo Inst. of Technology) ○Miyazaki, Mitsuhiro (15:30~15:50)

Chair: Saito, Shinji (16 : 00~17 : 20)

- 3A3-43[#]** Asia Special Lecture Nonadiabatic Molecular Dynamics The-

Room B1

Bldg. 2 221

Catalysts and Catalysis

Sunday, March 17, AM

Chair: ABE, Ryu (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2B1-07)

2B1-07[#] CSJ Award for Creative Works Investigation of heterogeneous catalysis using surface ion hopping and its utilization (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○SEKINE, Yasushi

Chair: MURATSUGU, Satoshi (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2B1-14, 2B1-15, 2B1-16, 2B1-18)

2B1-14 Promotion of methane reforming reaction via perovskite type oxide using microwave heating (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ITO, Kotaro; MATSUHISA, Masayuki; TSUBAKI, Shuntaro; FUJI, Satoshi; SUZUKI, Eiichi; FUKUSHIMA, Jun; TAKIZAWA, Hirotosugu; WADA, Yuji

2B1-15 Electrochemical monitoring of surface state using perovskite type metal oxide under microwave irradiation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MATSUHISA, Masayuki; FUJII, Satoshi; TSUBAKI, Shuntaro; SHIMIZU, Ryota; SUZUKI, Eiichi; HITOSUGI, Taro; WADA, Yuji

2B1-16[#] Field Effect Control of Catalytic Activity via Ionic Liquid Gating (NIMS) ○KAWASAKI, Seiji; ABE, Hideki; CHATTERJEE, Abhijit

2B1-18[#] Adsorption and Activation of Methane on Metal Oxide Surface (IMCE, Kyushu Univ.) ○TSUJI, Yuta; YOSHIZAWA, Kazunari

Sunday, March 17, PM

Chair: TSUBAKI, Shuntaro (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2B1-27, 2B1-28, 2B1-30, 2B1-31, 2B1-32)

2B1-27[#] Low-temperature Redox Behavior and Selective Oxidation Performance of Ceria-based Mixed Oxides with Cr and Rh (Grad. Sch. Sci., Nagoya Univ.) ○IKEMOTO, Satoru; MATSUI, Hirosuke; MURATSUGU, Satoshi; TADA, Mizuki

2B1-28[#] Oxygen-evolution-reaction (OER) abilities of metal-ion species on carbon paper (Fac. Sci., Yamagata Univ.) ○ISHIZAKI, Manabu; TANNO, Hiroya; SUTOH, Hikaru; KURIHARA, Masato

2B1-30 Development of TiO₂ Supported Non-equilibrium RhCu Bimetallic Alloy Catalyst and its Catalysis (Sch. Eng., Osaka Univ.) ○SHUN, Kazuki; MASUDA, Shinya; MORI, Kohsuke; YAMASHITA, Hiromi

2B1-31 Properties and behaviors of several amino acids-Au complexes as a precursor of supported gold nanoparticles (Fac. Sci., Kyushu Univ.) ○TAKAKI, Mayu; MURAYAMA, Haruno; HONMA, Tetsuo; OHASHI, Hironori; YAMAMOTO, Eiji; TOKUNAGA, Makoto

2B1-32[#] Gas-phased Oxidation Reactions Using Subnano Copper Oxide Particles (Lab. Chem. Life Sci., Tokyo Tech.) ○FUKATSU, Tomoya; SONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa

Chair: SHIMIZU, Kenichi (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2B1-34, 2B1-36, 2B1-38)

2B1-34[#] Novel, Highly Stable Gold Nanoclusters Modified by Bidentate N-Heterocyclic Carbene Ligands (WPI-ITbM, Nagoya Univ.) ○MAN, Renee; NAMBO, Masakazu; CRUDDEN, Cathleen

2B1-36[#] N-Heterocyclic Carbene-Functionalized Gold Nanoclusters (WPI-ITbM, Nagoya Univ.) ○OSTEN, Kimberly; NAROUZ, Mina R.; MAN, Renee; TAKANO, Shinjiro; NAMBO, Masakazu; TSUKUDA, Tatsuya; CRUDDEN, Cathleen M.

2B1-38[#] Preparation of Nanoparticle Assembly of Cyano-Bridged Polynuclear Metal Complexes for Adsorption and Catalytic Hydrolysis of Organophosphates (Grad. Sch. Eng., Osaka City Univ.; OCARINA) ○TABE, Hiroyasu; TERASHIMA, Chihiro; YAMANE, Mari; YOROZU, Shoma; YAMADA, Yusuke

Chair: TSUJI, Yuta (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(2B1-41, 2B1-42, 2B1-44, 2B1-45)

2B1-41 Activation of oxygen reduction reaction in Cu-added Pt/TiN electrocatalyst (Grad. Sch. Sci., Nagoya Univ.) ○SHOJI, Asako; MATSUI, Hirosuke; ISHIGURO, Nozomu; URUGA, Tomoya; TADA, Mizuki

2B1-42[#] Theoretical study of surface protonation and water oxidation on small IrO_x clusters (Sch. Sci., Tokyo Tech.) ○JUHASZ, Gergely

2B1-44 Reaction mechanism analysis of water-splitting on MOF photocatalysts based on first-principle calculation (Grad. Sch. Eng., Osaka Pref. Univ.; Inst. for Cat., Hokkaido Univ.) ○MINE, Shinya; TATEWAKI, Kenta; TOYAO, Takashi; HORIUCHI, Yu; IKENO, Hidekazu; MATSUOKA, Masaya

2B1-45 A DFT study of methane activation over transition metal-doped CeO₂

ory and Simulations: Azobenzene Photoisomerization Mechanisms on Multistate Potential Energy Surfaces (National Chiao Tung Univ.) ○Zhu, Chaoyuan (16:00~16:40)

3A3-47[#] Invited Lecture Ultrafast internal conversion cascade and subsequent photofragmentation of XUV excited caffeine molecule (Tohoku Univ.) ○Yamazaki, Kaoru (16:40~17:00)

3A3-49[#] Invited Lecture Exploring potential crossings: Understanding nonadiabatic decay processes (Hokkaido Univ.) ○Saita, Kenichiro (17:00~17:20)

(17 : 20~17 : 30)

3A3-51[#] Opening Remarks / Closing Remarks Closing remarks (Shizuoka Univ.) ○Torii, Hajime (17:20~17:30)

Physical Chemistry -Structure-

Tuesday, March 19, AM

IR/Raman Spectroscopy

Chair: SHIGETO, Shinsuke (9 : 10 ~10 : 10)

* 9:00-9:10: interval for laptop PC connection.(4A3-02, 4A3-03, 4A3-04, 4A3-05, 4A3-06)

4A3-02 Infrared spectra of perfluoroalkane monolayers on water surface (ICR, Kyoto Univ.) ○FUKUMI, Aki; SHIMOAKA, Takafumi; SHIOYA, Nobutaka; HASEGAWA, Takeshi

4A3-03 Solvent dependence of hydrogen bond energy of methanol-pyridine complex and absorption intensity of fundamental and overtone of OH stretching vibration of methanol monomer (NIT, Kumamoto College; Fac. Sci., Josai Univ.; Sch. Sci. Tech., Kwansai Gakuin Univ.) ○FUTAMI, Yoshisuke; OZAKI, Yasushi; OZAKI, Yukihiko

4A3-04 Chromophore structure of a novel type of photoreceptor protein, heliorhodopsins (Sch. Sci., Osaka Univ.) ○OTOMO, Akihiro; MIZUNO, Misao; SINGH, Manish; SHIOYA, Wataru; INOUE, Keiichi; NUREKI, Osamu; BÉJÁ, Oded; KANDORI, Hideki; MIZUTANI, Yasuhisa

4A3-05 Infrared study of the Ca²⁺-coordination structures of EF-hand motif proteins in combination with the specific ¹³C-labeled synthetic peptide analogs (Tokyo Med. and Dental Univ.) ○NARA, Masayuki; MORII, Hisayuki; SAKAMOTO, Akira; MIYAKAWA, Takuya; TANOKURA, Masaru

4A3-06[#] Fifth-order impulsive stimulated Raman spectroscopy for visualizing vibrational coupling in reactive excited states (Molecular Spectroscopy Lab., RIKEN) ○KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; KAMIKUBO, Hironari; KATAOKA, Mikio; TAHARA, Tahei

Chair: FUTAMI, Yoshisuke (10 : 20~11 : 20)

* 10:10-10:20: interval for laptop PC connection.(4A3-09, 4A3-10, 4A3-11, 4A3-12, 4A3-13)

4A3-09 Quantitative Analysis of Thermal Conversion Reaction of Pentacene Precursor in a Thin Film Using pMAIRS-CLS Technique (ICR, Kyoto Univ.) ○FUJIWARA, Ryoi; SHIOYA, Nobutaka; TOMITA, Kazutaka; SHIOAKA, Takafumi; HASEGAWA, Takeshi

4A3-10 Understanding of structure-controlling factors of a tetraphenylporphyrin thin film using the pMAIRS-GIXD technique (ICR, Kyoto Univ.) ○TOMITA, Kazutaka; SHIOYA, Nobutaka; SHIMOAKA, Takafumi; HASEGAWA, Takeshi

4A3-11 Keto-Enol Tautomerism of Acetylacetone as Studied by Infrared Electroabsorption Spectroscopy (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HIRAOKA, Takayuki; SHIGETO, Shinsuke

4A3-12 Complex quantitative analysis of solution mixing process in micro-reactor by Raman microspectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○OKAJIMA, Hajime; TERADA, Tomomi; YAMADA, Shiori; SAKAMOTO, Akira

4A3-13[#] Effects of Anion Species on Temperature-Dependent Low-Frequency Spectral Features of Pyrrolidinium-Based Ionic Liquids (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○KAKINUMA, Shohei; SHIROTA, Hideaki

Crystal Structure

Chair: MIZUNO, Misao (11 : 30~12 : 10)

* 11:20-11:30: interval for laptop PC connection.(4A3-16, 4A3-18)

4A3-16[#] Sorption of Channel-type Macrocyclic Molecular Crystals with Structural Flexibility (IMRAM, Tohoku Univ.) ○YUAN, Guohao; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

4A3-18[#] Controlling Chirality of Triglycine sulfate Crystals doped with a tiny amount of Alanine (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TERASAWA, Yukana; ISHIKAWA, Kazuhiko; ICHIKI, Masaaki; ASahi, Toru

catalyst (Inst. for Cat., Hokkaido Univ.) ○ISEKA, Masahiro; NAKAYAMA, Akira; HASEGAWA, Jun-ya

Chair: TERAMURA, Kentaro (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2B1-47, 2B1-48, 2B1-49, 2B1-51)
- 2B1-47[#]** Selective catalytic reduction of NO over Cu-Cr/Al₂O₃ catalysts (Grad. Sch. Urban Envr. Sci., TMU; ESICB, Kyoto Univ.) ○PIAO, Shengyan; MIURA, Hiroki; SHISHIDO, Tetsuya
- 2B1-48** Development of new fabrication method of ceria-based oxides and evaluation of their thermal stabilities (Grad. Sch. Sci. Technol., Shinshu Univ.; IMR, Tohoku Univ.; ACRC, Nagoya Inst. of Tech.) ○KUWAHARA, Takashi; SANO, Kaori; UMETSU, Rie; KATO, Hidemi; HANEDA, Masaaki; ASAO, Naoki
- 2B1-49[#]** Enhancement of electrocatalytic oxygen reduction performance for Pt-based nanoparticle catalysts prepared from Pt and lanthanide complex (Grad. Sch. Sci., Nagoya Univ.) ○MURATSUGU, Satoshi; ICHIHASHI, Kentaro; TADA, Mizuki
- 2B1-51[#]** NH₃ combustion properties of CuOx/3Al₂O₃ · 2SiO₂ catalysts (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○HINOKUMA, Satoshi; KIRITOSHI, Saaya; ARAKI, Kento; MACHIDA, Masato

Monday, March 18, AM

Chair: MIURA, Hiroki (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(3B1-07, 3B1-09, 3B1-10, 3B1-11, 3B1-12)
- 3B1-07^{*}** Hollow Silica Catalyst Encapsulating Aminopolymer and Pd Nanoparticles for Semihydrogenation of Alkynes (Grad. Sch. Eng., Osaka Univ.) ○KUWAHARA, Yasutaka; KANGO, Hiroto; YAMASHITA, Hiromi
- 3B1-09[#]** Design of Ag-based Plasmonic Nanocatalysts for Hydrogen Production under Visible Light Irradiation (Grad. Sch. Eng., Osaka Univ.) ○VERMA, Priyanka; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
- 3B1-10** Preparation of metal nanoparticles on SBA-15 with immobilized ionic liquids: Characterization and application to catalytic reactions (Grad. Sch. Frontier Sci., The Univ. of Tokyo) KUSUMAWATI, Ety Nurlia; ○SASAKI, Takehiko
- 3B1-11[#]** Nanostructure control of IrO_x catalysts for highly efficient water oxidation anodes (Grad. Sch. Sci. and Technol., Niigata Univ.) ○SATO, Tetsuya; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 3B1-12** High Catalytic Stability of Ir(OH)₃ for Photocatalytic Water Oxidation Obtained by Supporting on Bottom-Up Mesoporous Silica (Grad. Sch. Eng., Osaka City Univ.) ○SAKAMOTO, Gentaro; TUBE, Hiroyasu; YAMADA, Yusuke

Chair: KUWAHARA, Yasutaka (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(3B1-14, 3B1-16, 3B1-17, 3B1-18, 3B1-19)
- 3B1-14[#]** Practical Synthesis of Zeolite Nanosheets with High Anisotropic Lamellar Building Unit (Grad. Sch. Eng., Hiroshima Univ.) ○TSUNOJI, Nao; SADAKANE, Masahiro; SANO, Tsuneji
- 3B1-16** Synthesis of [Ga]-MFI by using mechanochemical method and its application for methane conversion (Sch. Eng., Tohoku Univ.) ○YOSHIDA, Motohiro; MUTO, Humiya; HORIE, Mami; YABUSHITA, Mizuho; MAKI, Sachiko; KANIE, Kiyoshi; YOKOI, Toshiyuki; MURAMATSU, Atsushi
- 3B1-17** V-modified Mo/H-MFI for methane dehydroaromatization catalysts with durable activity (Saitama Inst. of Tech.) OGASAWARA, Keto; MOGI, Subaru; UCHINO, Keigo; ○ARITANI, Hirofumi
- 3B1-18** New Insight into Propylene Formation on MTO Reaction over ZSM-5 via Transient Kinetic Analysis (Grad. Sch. Eng., The Univ. of Tokyo) ○HIDAKA, Kai; MOTOKI, Takahiko; OGURA, Masaru
- 3B1-19** QM/MM ONIOM calculations on methane activation by coinage metal containing ZSM-5 zeolites (KIT) ○NAGAHISA, Tomo; YUMURA, Takashi

Monday, March 18, PM

Chair: KITA, Yusuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3B1-35, 3B1-36, 3B1-37, 3B1-38, 3B1-39, 3B1-40)
- 3B1-35** Pathway of coupling reaction between chloroarene and phenylboronic acid through formation of triphenylborane (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○FUKUDA, Takuma; MANAKA, Yuichi; MOTOKURA, Ken
- 3B1-36** One-pot synthesis of terminal silylated alkyl carbonate using supported Rh complex-quaternary ammonium salt catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.; Multidisciplinary Eng. Course, NIT, Numazu College) ○MIYASHITA, Koudai; MAEDA, Kyogo; INAZU, Koji; MANAKA, Yuichi; MOTOKURA, Ken
- 3B1-37** Promotion of Pd-catalyzed allylation reaction of nucleophiles in silica mesopore with base additives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWASHIMA, Sae; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken

- 3B1-38** Concerted Catalysis by Immobilized Ir Complex and Organic Functional Group on a Same Silica Surface for Efficient C-H Borylation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MAEDA, Kyogo; UEMURA, Youhei; CHUN, Wang-jae; MANAKA, Yuichi; MOTOKURA, Ken
- 3B1-39** Concerted catalysis of mesoporous silica-immobilized Rh complex for 1,4-addition reaction of phenylboronic acid (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HASHIGUCHI, Kohei; MAEDA, Kyogo; CHUN, Wang-jae; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken
- 3B1-40** Immobilization of a Zinc Complex on Bipyridine-Based Periodic Mesoporous Organosilica and Its Catalytic Activity (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; IRC3, AIST; Toyota Central R&D Labs., Inc.) ○LIN, Xiaotao; MATSUMOTO, Kazuhiro; MAEGAWA, Yoshifumi; INAGAKI, Shinji; CHOI, Jun-chul

Chair: MITSUDOME, Takato (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(3B1-42, 3B1-44, 3B1-45, 3B1-46)
- 3B1-42[#]** Nb₂O₅·nH₂O catalyst for low-temperature production of primary amines by reductive amination (IIR, Tokyo Tech.) ○DENG, Dian; KITA, Yusuke; KAMATA, Keigo; HARA, Michikazu
- 3B1-44[#]** 1,3-Rearrangement of allylic Esters with Metal-Oxide Supported Noble Metal Catalysts (Grad. Sch. Sci., Kyushu Univ.) ○HUANG, Qian; MURAYAMA, Haruno; HARUTA, Asahi; KUMAMOTO, Yuhya; HASHIGUCHI, Taishin; YAMAMOTO, Eiji; HONMA, Tetsuo; ISHIDA, Tamao; TANIGUCHI, Shouhei; IZAWA, Yusuke; TOKUNAGA, Makoto
- 3B1-45** Investigation on the Support Structure Design and Chemical Environmental Response of Polymer-Supported Half-Metallocene Catalysts (Sch. Adv. Sci. Tech., JAIST) ○MIZUTANI, Yuta; THAKUR, Ashutosh; WADA, Toru; TANIKE, Toshiaki
- 3B1-46** Hydrosilylation of Alkynes over Supported NiAu Catalysts: Enhancing Activity by the Incorporation of Nickel into Gold Nanoparticles (Fac. Urban Envr. Sci., TMU; ESICB, Kyoto Univ.) ○FUKUDA, Yohei; OGAWA, Ryoichi; MIURA, Hiroki; SHISHIDO, Tetsuya

Tuesday, March 19, AM

Chair: KAMATA, Keigo (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(4B1-07, 4B1-08, 4B1-09, 4B1-10, 4B1-11)
- 4B1-07** Selective Carbon-Carbon Bond Cleavage of Primary Alcohols Using Cerium Oxide-Supported Pd Catalyst (Grad. Sch. Eng. Sci., Osaka Univ.) ○KONDO, Hiroki; MITSUDOME, Takato; MIZUGAKI, Tomoo; ZITSUKAWA, Koichiro
- 4B1-08** Development of Highly Efficient Rh-Mo Bimetallic Nanoparticle Catalyst for Mild Hydrogenation of Amides to Amines (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKAHASHI, Kazuhiro; KIMURA, Miho; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro
- 4B1-09** Development of Titanium Dioxide-supported Cobalt Oxide Nanoparticle Catalyst for Selective Hydrosilylation of Alkenes (Grad. Sch. Eng. Sci., Osaka Univ.) ○SHENG, Min; FUJITA, Shu; MITSUDOME, Takato; MIZUGAKI, Tomoo; JITSUKAWA, Koichiro
- 4B1-10** Dehydrogenative cyanomethylation of benzene with a mixture of titanium oxide photocatalyst and supported Pd catalyst (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) YOSHIDA, Hisao; YAMAMOTO, Akira; ○SAITO, Yuta
- 4B1-11** Functionalization reaction of benzene using silica modified titanium oxide photocatalyst (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○IMAMURA, Hitomi; NANIWA, Shimpei; YAMAMOTO, Akira; YOSHIDA, Hisao

Chair: IKEDA, Shigeru (11 : 00~11 : 40)

- * 10:50-11:00: interval for laptop PC connection.(4B1-13)
- 4B1-13** CSJ Award for Technical Development Development of Ammoxidation Catalyst for Propane and Acrylonitrile Production Technology from Propane in the presence of above-mentioned Catalyst (Asahi Kasei Corp.; Asahi Kasei Corp.; Asahi Kasei Corp.; Asahi Kasei Corp.) ○HINAGO, Hidenori; KOMADA, Satoru; KATOU, Takaaki; WATANABE, Haruhiko; KIRINO, Syunya

Tuesday, March 19, PM

Chair: YAMAGUCHI, Kazuya (13 : 00~13 : 50)

- * 12:50-13:00: interval for laptop PC connection.(4B1-25, 4B1-26, 4B1-27, 4B1-29)
- 4B1-25** Sulfonfylamido Iron(II) Complex-Catalyzed Oxidative Degradation of Lignin (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○SHANOH, Takafumi; TAKAYA, Hikaru; ITO, Masato; NAKAMURA, Masaharu
- 4B1-26** X-ray Micro-Tomography Imaging and Analysis of Degradation of Cedar Wood under Iron-Catalyzed Oxidation (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) TAKAYA, Hikaru; ○SHANOH, Takafumi; TAKEDA, Yoshihiro; NAKATANI, Yuuya; NAKAMURA, Masaharu
- 4B1-27[#]** Aerobic Toluene Oxidation by Subnanocatalysts (IIR, Tokyo Tech.) ○HUDA, Miftakhu; MINAMISAWA, Keigo; TSUKAMOTO, Takamasa; TANABE, Makoto; YAMAMOTO, Kimihisa

4B1-29 Catalytic Oxidation from Cyclohexane to Dicarboxylic Acid by Subnanocatalysts (Lab. Chem. Life Sci., Tokyo Tech.) ○MATSURA, Kodai; MIFTAKHUL, Huda; TANABE, Makoto; YAMAMOTO, Kimihisa

Chair: TAKAYA, Hikaru (14 : 00~14 : 40)

* 13:50-14:00: interval for laptop PC connection.(4B1-31, 4B1-32, 4B1-33, 4B1-34)

4B1-31 Copper/N-oxyl-catalyzed highly regioselective α -oxygenation of N-methyl amines (Grad. Sch. Eng., The Univ. of Tokyo) ○NAKAI, Satoru; SUZUKI, Kosuke; SASANO, Yusuke; IWABUCHI, Yoshiharu; MIZUNO, Noritaka; YAMAGUCHI, Kazuya

4B1-32 Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid by Manganese Dioxide Catalysts with Various Crystal Structures (IIR, Tokyo Tech.) ○HAYASHI, Eri; YAMAGUCHI, Yui; KAMATA, Keigo; TSUNODA, Naoki; KUMAGAI, Yu; OBA, Fumiyasu; HARA, Michikazu

4B1-33 Synthesis and Characterization of High-surface-area β -MnO₂ for Aerobic Oxidation of 5-Hydroxymethylfurfural (IIR, Tokyo Tech.) ○YAMAGUCHI, Yui; HAYASHI, Eri; KAMATA, Keigo; HARA, Michikazu

4B1-34 Selective Oxidation of Alkanes with Molecular Oxygen Catalyzed by High Valent Iron-based Perovskite Oxide (IIR, Tokyo Tech.) ○SHIBATA, Satomi; KAMATA, Keigo; HARA, Michikazu

Chair: OGO, Shuhei (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(4B1-36, 4B1-38, 4B1-39, 4B1-40, 4B1-41)

4B1-36** A study on cryogenic hydrogen oxidation reaction of Pd-perovskite catalyst using oxygen isotope (Sch. Sci. Tech., Kansai Univ.) ○TANAKA, Hirohisa; TAKENAKA, Keisuke; ONO, Hitomi; KITA, Tomoaki; TANIGUCHI, Masashi; MATSUMURA, Daiju

4B1-38 Synthesis of Mn hydrotalcite catalyst and study of catalytic ability (Kindai Univ.) ○TOMOTAKI, Takuya; ASHIDA, Toshihumi; OKADA, Yoshiharu

4B1-39 Development of iron-typed layered double hydroxide for effective degradation of organic pollutants (Fac. Env. Urban Eng., Kansai Univ.) ○TODOROKI, Masanobu; KANAI, Honami; IWAMURA, Kazushi; FUKU, Kojiro; IKENAGA, Naoki

4B1-40 Efficient olefin oxidation reaction using BiVO₄ photocatalyst and hydrogen peroxide (Grad. Sch. Sci. and Eng., Kansai Univ.) ○ODAGIRI, Daichi; FUKU, Kojiro; IKENAGA, Naoki

4B1-41 Direct Alkylation Reaction of Benzene with Alkane over Montmorillonite Catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKABATAKE, Moe; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken

Room B2

Bldg. 2 222

Polymer

Saturday, March 16, AM

Chair: ISHIFUNE, Manabu (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1B2-01, 1B2-03, 1B2-05, 1B2-06)

1B2-01** Study on Artificial Catalytic Function of Vanadium Coordinated with Dendritic Molecules for in situ Anticancer Drug Synthesis (Grad. Sch. Eng., Kobe Univ.) ○OOYA, Tooru; KOZONO, Yudai

1B2-03** Multi-functional supramolecular materials by mixing hydrophobic cyclodextrin based host polymer and guest polymer: recycle, healing, and toughening (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.; PRC, Osaka Univ.) ○PARK, Junsu; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu

1B2-05 Formation of cholesteric superstructures of achiral poly(quinoxaline-2,3-diyl)s based on the screw-sense induction by the exposure of vapor of chiral solvents (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○ASHIKAGA, Shunsuke; SUGINOME, Michinori

1B2-06 An Efficient Screw-sense Induction of Poly(quinoxaline-2,3-diyl)s Bearing Achiral Carboxyl Acid Side Chains through Ionic Interactions with Chiral Amines (Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○YAMAWAKI, Tomonori; KURODA, Takuma; SUGINOME, Michinori

Chair: HIROSE, Daisuke (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1B2-08, 1B2-09, 1B2-10, 1B2-11, 1B2-12, 1B2-13)

1B2-08 Chirality Transfer from Natural Amino Acid Derivatives to Achiral Poly(quinoxaline-2,3-diyl)s and Its Application for Catalytic Asymmetric Synthesis (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○IKEDA, Shoma; SUGINOME, Michinori

1B2-09# Tuning of Chirality-Switchable Helical Polymer Ligand Based on the

Modification of *o*-Phenylene Linker of Phosphine Pendants (Grad. Sch. Eng., Kyoto Univ.) ○FUJIE, Takaya; YAMAMOTO, Takeshi; SUGINOME, Michinori

1B2-10 Diels-Alder reaction in the hydrophobic field generated by the optically active thermoresponsive block-type polyacrylamides (Grad. Sch. Sci. Eng., Kindai Univ.) ○MIYAKITA, Soki; ISHIFUNE, Manabu

1B2-11 Synthesis of optically active thermoresponsive polymer containing lanthanide complex (Fac. Sci. Eng., Kindai Univ.) ○KITA, Manami; ISHIFUNE, Manabu

1B2-12 Aggregation Behavior and Reaction Field Formation in Water of Thermoresponsive Polymer Containing of Lewis Acid Point (Fac. Sci. Eng., Kindai Univ.) ○MORIMOTO, Hiroki; ISHIFUNE, Manabu

1B2-13 Synthesis of pH- and thermo-responsive chiral block copolymers and their application for asymmetric recognition (Fac. Sci. Eng., Kindai Univ.) ○NISHIYAMA, Naoko; ISHIFUNE, Manabu

Chair: NAGATA, Yuuya (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(1B2-15, 1B2-16, 1B2-17, 1B2-18, 1B2-19)

1B2-15 Polymerization and characterization of cyanate ether resin using low viscosity additives (Adv. Tech. R&D Center, Mitsubishi Electric Co.) ○SATO, Satoru; MABUCHI, Takahiro

1B2-16 Synthesis of Helical Polyacetylenes Bearing Organocatalytically Active Pendants and Their Application (Grad. Sch. Eng., Nagoya Univ.) ○ANDO, Mitsuka; ISHIDATE, Ryoma; MAEDA, Katsuhiro; YASHIMA, Eiji

1B2-17 Colorimetric Detection of Enantiomeric Ratios of Chiral Amines by Using Optically Inactive Poly(diphenylacetylene) as a Probe (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NOZAKI, Mai; HIROSE, Daisuke; ISHIBASHI, Hidetaka; NISHIMURA, Tatsuya; IKAI, Tomoyuki; MAEDA, Katsuhiro

1B2-18 Helicity Control of Poly(biphenylacetylene) Derivatives Using a Single Enantiomer and Their Application as a Chiral Stationary Phase for HPLC (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MORI, Taro; HIROSE, Daisuke; IKAI, Tomoyuki; YASHIMA, Eiji; MAEDA, Katsuhiro

1B2-19 Optical resolution of dl-menthol by enantiomer-selective helix-sense-selective polymerization followed by helix-sense selective highly selective photocyclic aromatization (Grad. Sch. Sci. and Technol., Niigata Univ.) ○SUZUKI, Jumpei; TERAGHI, Masahiro; KANEKO, Takashi; AOKI, Toshiaki

Saturday, March 16, PM

Chair: SUGA, Takeo (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1B2-34, 1B2-36, 1B2-37, 1B2-38, 1B2-39)

1B2-34** Synthesis of Solvatochromic Tetraphenylethene Polymer Binding with Methylene Units (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KAKUTA, Takahiro; NAKANISHI, Ryota; OGOSHI, Tomoki; YAMAGISHI, Tada-aki

1B2-36 Synthesis and catalytic reaction of solid-supported macrocyclic Pd catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAMEKI, Riku; NAKAZONO, Kazuko; UCHIDA, Satoshi; TAKATA, Toshikazu

1B2-37 Strengthening toughness of hydrophobic polymer by introduction of movable cross-linking points (Sch. Sci., Osaka Univ.) ○IKURA, Ryohei; OSAKI, Motofumi; YAMAGUCHI, Hiroyasu; HARADA, Akira; TAKASHIMA, Yoshinori

1B2-38 Preparation of photo-stimuli responsive polymeric materials based on host-guest interactions. (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.) ○OKANO, Nanami; YAMAGUCHI, Hiroyasu; HARADA, Akira; TAKASHIMA, Yoshinori

1B2-39 Development of luminescent gels that exhibit photo-responsiveness in coexistence of nucleophiles (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○RUSSELL, Go Martin; MASAI, Hiroshi; TAMAKI, Takashi; TERAU, Jun

Chair: OGOSHI, Tomoki (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1B2-41, 1B2-43, 1B2-44, 1B2-45, 1B2-46)

1B2-41** Supramolecular Polymers Rotaxane-Cross-Linked through Hydrogen Bonding Interactions of Ureido Pyrimidine Groups (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○RAO, Sijia; NAKAZONO, Kazuko; TAKATA, Toshikazu

1B2-43 Hydrogels Created by the Self-Assembly and Dynamic Crosslinking of Amphiphilic Random Copolymers: Self-Healing and Selectively Adhesive Materials (Grad. Sch. Eng., Kyoto Univ.) ○AGATA, Kenichi; ITO, Daiki; OUCHI, Makoto; TERASHIMA, Takaya

1B2-44 Synthesis of Poly(diazaanthraquinone) Derivatives and Application to Organic Cathode-Active Materials (Sch. Advanced Sci. Eng., Waseda Univ.) ○GO, Choitsu; AKAHANE, Tomoki; SUZUKI, Miyu; OYAIZU, Kenichi

1B2-45 Thiol-ene Synthesis of Polyether with Highly Dissociative Ionic Group and Application for Lithium Sulfur Battery as an Electrolyte Membrane (Sch. Advanced Sci. Eng., Waseda Univ.) ○KIMURA, Satoshi; SAKAMOTO, Masaki; OYAIZU, Kenichi

1B2-46# Redox-active Polyethers and Polyimidazolium electrolyte for a Totally Organic-based, Solid-state Secondary Battery (Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUMOTO, Satoshi; HATAKEYAMA, Kan;

OYAIZU, Kenichi

Chair: TERASHIMA, Takaya (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(1B2-48, 1B2-50, 1B2-51, 1B2-52, 1B2-53)
- 1B2-48[#]** Synthesis of Lithium-ion conducting polyethers assisted by machine learning (Sch. Advanced Sci. Eng., Waseda Univ.) ○HATAKEYAMA, Kan; TEZUKA, Toshiki; NISHIKITANI, Yoshinori; NISHIDE, Hiroyuki; OYAIZU, Kenichi
- 1B2-50** Synthesis of Poly(vinyl quinoxaline) and Its Hydrogenation and Dehydrogenation (Sch. Advanced Sci. Eng., Waseda Univ.) ○KAIWA, Yusuke; OKA, Kouki; NISHIDE, Hiroyuki; OYAIZU, Kenichi
- 1B2-51** Hydrogenation and Dehydrogenation of Poly(vinyl fluorenone) Particles (Sch. Advanced Sci. Eng., Waseda Univ.) ○MURAO, Saki; FURUKAWA, Shuhei; OKA, Kouki; NISHIDE, Hiroyuki; OYAIZU, Kenichi
- 1B2-52** Polymer/Perovskite Ink: Preparation and One-Step Bar Coating Process for Perovskite Layer Formation (Sch. Advanced Sci. Eng., Waseda Univ.) ○OWADA, Marika; OKADA, Akihiro; SHIROGANE, Yuta; SUGA, Takeo; OYAIZU, Kenichi; SEGAWA, Hiroshi; NISHIDE, Hiroyuki
- 1B2-53** Surface Passivation of Perovskite Layers and Photovoltaic Performance of the Device Fabricated with Polytriarylamine as a Hole-transporting Layer (Sch. Advanced Sci. Eng., Waseda Univ.) ○KAMIMORI, Koichiro; OKADA, Wataru; SUGA, Takeo; OYAIZU, Kenichi; SEGAWA, Hiroshi; NISHIDE, Hiroyuki

Chair: UBE, Toru (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(1B2-55, 1B2-56, 1B2-57, 1B2-58, 1B2-59)
- 1B2-55** Synthesis of Highly Conductive PEDOT:PSS (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○OZAWA, Takumi; KATSUYAMA, Naoya; OKUZAKI, Hidenori
- 1B2-56** Fabrication of Conductive Filaments and Application to 3D Printing (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○KATO, Yuki; KUDO, Kazuki; YANO, Hirokazu; OKUZAKI, Hidenori
- 1B2-57** Control of Internal Free Volume for Water-permeable Parylene Films (Fac. Textile Sci. Technol., Shinshu Univ.) ○GOTO, Mizuki; KIMURA, Mutsumi
- 1B2-58** Synthesis and optical properties of conjugated polymers consisting of 9,9-bifluorenylidene skeleton (Fac. Textile Sci. Technol., Shinshu Univ.) ○YOSHII, Tatsuya; KIMURA, Mutsumi
- 1B2-59** Synthesis and application of poly(ortho-phenylene) having long chain alkyl group (Fac. Textile Sci. Technol., Shinshu Univ.) ○SONOBE, Masahiro; KIMURA, Mutsumi

Sunday, March 17, AM

Chair: KAKUTA, Takahiro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-02, 2B2-03, 2B2-04, 2B2-05, 2B2-06)
- 2B2-01** The control of catalytic activity of a thermoresponsive polymer-supported catalyst by the conformational change. (Sch. Sci., Hokkaido Univ.) ○MISHIMA, Kota; FUKAYA, Naoki; KUROSHIMA, Yoshiki; KOKADO, Kenta; SADA, Kazuki
- 2B2-02** Evaluation of association degree for thermoresponsive phase transition behavior of polymer solution of polymer having Charge transfer interaction site and hydrogen bonding site (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○FUKAYA, Naoki; KUROSHIMA, Yoshiki; KOKADO, Kenta; SADA, Kazuki
- 2B2-03** Preparation of Photomobile Materials Composed of Multilayer Constructions (Fac. Sci. Eng., Chuo Univ.) ○NAITO, Keigo; UBE, Toru; IKEDA, Tomiki
- 2B2-04** Effects of Molecular Structure of Monomers on Photomobile Behavior of Crosslinked Liquid-Crystalline Polymers at Cryogenic Temperature (Grad. Sch. Sci. Eng., Chuo Univ.; Research and Development Initiative, Chuo Univ.; CIMoS, IMS) ○OGIKUBO, Shunya; HASHIMOTO, Gaku; UBE, Toru; SUDA, Masayuki; YAMAMOTO, Hiroshi; IKEDA, Tomiki
- 2B2-05** Evaluation of Photoresponsive Behavior of Crosslinked Liquid-Crystalline Polymers with Exchangeable Covalent Bonds in a Main Chain (Grad. Sch. Sci. Eng., Chuo Univ.) ○MATSUSHITA, Masaya; KAWASAKI, Kyohei; UBE, Toru; IKEDA, Tomiki
- 2B2-06** Light-Scattering Properties of Polymer/Liquid Crystal Composite Materials Containing Photochromic Molecules (Fac. Sci. Eng., Chuo Univ.) ○IMAI, Junpei; SUZUKI, Takaya; UBE, Toru; FUJISAWA, Toru; HASEBE, Hiroshi; TAKATSU, Haruyoshi; IKEDA, Tomiki

Chair: KOKADO, Kenta (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2B2-08, 2B2-09, 2B2-10, 2B2-11, 2B2-12, 2B2-13)
- 2B2-08** Photoresponsive Behavior of Side Chain Azobenzene Homopolymers with Different Main Chain Structures (Fac. Sci. Eng., Chuo Univ.) ○URAZOE, Naoki; UBE, Toru; IKEDA, Tomiki
- 2B2-09** Photoresponsive Behavior of Copolymers with Liquid-Crystalline Azobenzene (Fac. Sci. Eng., Chuo Univ.) ○MIYAZAKI, Shotaro; UBE, Toru; IKEDA, Tomiki

- 2B2-10** Development and Photoresponsive Behavior of Azobenzene-Containing Films Based on Polyurethane Matrix (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAKAYAMA, Romu; UBE, Toru; KATAYAMA, Kenji; IKEDA, Tomiki
- 2B2-11** Synthesis of UCST polymer in response to photothermal conversion probe (Grad. Sch. Eng., The Univ. of Tokyo) AKAGI, Yuki; ANRAKU, Yasutaka; GOSHO, Suguru; OYAMAMOTO, Hirotaka
- 2B2-12** Sensing of biomolecules using cationic π -conjugated polymers (III) -Effect of copolymerization ratio of diblock copolymer - (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SHIMADA, Yui; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 2B2-13** Microstructure of DNA/Ru(bpy)₃²⁺ hybrid film and its fast electrochemiluminescent response. (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○ABE, Yusei; MINAMI, Haruki; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Chair: OOYA, Tooru (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2B2-15, 2B2-16, 2B2-17, 2B2-18, 2B2-19, 2B2-20)
- 2B2-15** Synthesis and Properties of Amphiphilic Block Copolymers Bearing Porphyrin Unit as Side Chain (Grad. Sch. Sys. Eng., Wakayama Univ.) ○KODAMA, Yuki; OSUGA, Hideji; SAKAMOTO, Hidehumi
- 2B2-16** Modification of Polyethyleneimine with N,N'-Disubstituted Guanidino Group and Its Function (SUMS) ○SOMA, Daiki; FURUSHO, Yoshio; NAKAE, Yuki; TERASHIMA, Tomoya; KOJIMA, Hideto
- 2B2-17** Development of deep eutectic solvents which dissolve and swell chitin (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○IDENOUE, Satoshi; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2B2-18** Synthesis of α -glucans having novel higher-order structures by phosphorylase-catalyzed enzymatic polymerization (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○NAKAMURA, Shota; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2B2-19** Enzymatic synthesis of maltooligosaccharide having carboxylate groups at both ends (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○CHIGITA, Hirotaka; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi
- 2B2-20** Preparation of Semi-crystalline Film by Acylation on Self-assembled Chitin Nanofibers (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KADOKAWA, Jun-ichi; KAWANO, Akito; YAMAMOTO, Kazuya

Sunday, March 17, PM

Chair: KADOKAWA, Jun-ichi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2B2-28, 2B2-31, 2B2-32, 2B2-33)
- 2B2-28** Young Scholar Lectures of CSJ Construction and functionalization of filamentous virus-based soft materials (Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○SAWADA, Toshiki
- 2B2-31** Preparation and Characterization of Virus-based Nanocomposite Films (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KISHIDA, Takashi; SAWADA, Toshiki; SERIZAWA, Takeshi
- 2B2-32** Chemical Surface-Modification of Filamentous Virus and its Development into Thermally Conductive Materials (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSURUOKA, Taiki; SAWADA, Toshiki; SERIZAWA, Takeshi
- 2B2-33** Synthesis of guanidinylated chitosan (Grad. Sch. Eng., Tottori Univ.) ○IZAWA, Hironori; KINAI, Mizuki; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

Chair: IFUKU, Shinsuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2B2-35, 2B2-37, 2B2-39)
- 2B2-35[#]** Supramolecular Polymerization of GroEL Protein and siRNA for 'Artificial Viruses' (Grad. Sch. Eng., The Univ. of Tokyo) ○P.K, Hashim; SEUNGHYUN, Sim; OKURO, Kou; AIDA, Takuzo
- 2B2-37[#]** Affinity-based partitioning of proteins fused with polymer-binding peptides in aqueous two-phase systems (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Seigo; KOJIMA, Taisuke; SAWADA, Toshiki; TAKAYAMA, Shuichi; SERIZAWA, Takeshi
- 2B2-39[#]** Evaluation of Permeability of Middle-Size Molecules Across Polysaccharide Composite Films (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○YATAKA, Yusuke; SATO, Ryo; IJIMA, Kazutoshi; HASHIZUME, Mineo

Chair: SAWADA, Toshiki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2B2-42, 2B2-44, 2B2-45, 2B2-46, 2B2-47)
- 2B2-42[#]** Designing Covalent Organic Frameworks for Light emitting and Anion Sensing (Sch. Mat. Sci., JAIST) ○LI, Zhongping; NAGAO, Yuki; JIANG, Donglin
- 2B2-44** Chirality induction in polythiophene using a chiral metal-organic framework (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○NAGASAKA, Yujiro; KITAO, Takashi; UEMURA, Takashi
- 2B2-45** Polymerization of norbornene derivatives by phosphine-sulfonamide ligated nickel catalyst (Grad. Sch. Eng., KUT) ○KOMATSU, Kento; SUGIMOTO, Ryuichi
- 2B2-46** Graft polymerization of polar monomer onto polyolefin using Tri-n-butylborane (TBB) (Sch. Env. Sci. Eng., KUT) ○NISHIMURA, Yuki;

SUGIMOTO, Ryuichi

- 2B2-47** Chemical modification of Chitin and Chitosan via Ring-Opening Graft Polymerization. (Sch. Env. Sci. Eng., KUT) ○MATSUMOTO, Yuri; SUGIMOTO, Ryuichi

Chair: SUGIMOTO, Ryuichi (17:00~17:40)

- * 16:50-17:00: interval for laptop PC connection.(2B2-49, 2B2-51, 2B2-52)
2B2-49[#] Designing Stable Covalent Organic Frameworks for Proton Conduction (Sch. Mat. Sci., JAIST) ○TAO, Shanshan; NAGAO, Yuki; JIANG, Donglin
2B2-51 Creation of Thermo-responsive Magnetic Nanoparticles Based on Living Coordination Polymerization of Allenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ASAMI, Rina; NISHIYAMA, Hiroki; INAGI, Shinsuke; WAKIYA, Takeshi; TOMITA, Ikuyoshi
2B2-52 XPS studies on antistatic ability and surface characteristic of polymers with ionic liquids (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KATO, Naoto; REN, Jie; IWAHASHI, Takashi; AOYAGI, Hiroki; SAITO, Yuta; SHIMAMURA, Hiroto; HORI, Tetsuya; OUCHI, Yukio

Monday, March 18, AM

Chair: MIYATA, Takashi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3B2-01, 3B2-02, 3B2-03, 3B2-04, 3B2-05, 3B2-06)
3B2-01 Synthesis of alkylated poly(arbutin) and the micelle properties (Grad. Sch. Eng., Iwate Univ.) ○SETO, Ayaka; KOFUJITA, Hisayoshi; OISHI, Yoshiyuki; SHIBASAKI, Yuji
3B2-02 Antimicrobial properties of poly(arbutin) and its derivatives (Grad. Sch. Eng., Iwate Univ.) ○KAJIWARA, Rika; KOFUJITA, Hisayoshi; OISHI, Yoshiyuki; SHIBASAKI, Yuji
3B2-03[#] Inhibit cancer metastasis via integrin-targeted polymer-assembly (OIST) ○YUKAWA, Sachie; ZHANG, Ye
3B2-04 Preparation of Polysaccharide Composite Films Loading Two Different Model Drugs and Evaluation of Their Release Behaviors (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○MISHIMA, Shiori; OTSUKA, Yusuke; SHIBATA, Tomonori; YATAKA, Yusuke; HASHIZUME, Mineo
3B2-05 Physical Property Control of Hyaluronic Acid/Chitosan Composite Gels by Salt Treatments (Fac. Eng., TUS; Grad. Sch. Eng., U) ○IWAKI, Haruna; SAKAKIBARA, Minami; KONDO, Tetsuhei; YATAKA, Yusuke; HASHIZUME, Mineo
3B2-06 Preparation and Evaluation of Protein Adsorption Abilities of Porous Films Made of Polysaccharide Polyion Complexes (Fac. Eng., TUS) ○KADOWAKI, Keisuke; IIZUKA, Ayako; YATAKA, Yusuke; HASHIZUME, Mineo

Chair: IHARA, Eiji (10:10~10:50)

- * 10:00-10:10: interval for laptop PC connection.(3B2-08)
3B2-08 CSJ Award for Technical Development Development of Novel Polyolefin-Silicone Block Copolymer (Mitsui Chemicals, Inc.; Mitsui Chemicals, Inc.; Mitsui Chemicals, Inc.; Mitsui Chemicals America, Inc.) ○OKABE, Akihiro; TOMOSHIGE, Naoki; NAGAI, Naoshi; MATSUURA, Sadahiko; HARADA, Tamotsu

Chair: SHIBASAKI, Yuji (11:00~11:50)

- * 10:50-11:00: interval for laptop PC connection.(3B2-13, 3B2-14, 3B2-15, 3B2-16, 3B2-17)
3B2-13 Preparation of Photo-Responsive Polymer Films with Easily Micropatternable Surfaces and Their Applications to Cell Patterning (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HIGASHINO, Misato; KAWAMURA, Akifumi; MIYATA, Takashi
3B2-14 Design of PEG-modified Nanoparticles That Exhibit Selective Cellular Uptake to Cancer Cells (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○UOZUMI, Aoi; KAWAMURA, Akifumi; MIYATA, Takashi
3B2-15 Synthesis of glycopolymers using polymers bearing water-soluble activated esters and their assay (KIT) ○TSUJI, Sotaro; TANAKA, Tomonari
3B2-16[#] Protein Cyborgization by Main Chain Substitution (Sch. Life Sci. Tech., Tokyo Tech.) ○AOKI, Yusuke; UI, Mihoko; MATSUI, Takashi; TANAKA, Yoshikazu; MURAOKA, Takahiro; SATO, Kohei; KINBARA, Kazushi
3B2-17[#] Preparation of porous materials using biodegradable polymers and application to scaffold materials (III) -Biodegradability of poly(L-lactic acid) monolith- (Grad. Sch. of Sci. Technol., Sophia Univ.) ○MUKAI, Marika; FUJITA, Masahiro; TAKEOKA, Yoko; RIKUKAWA, Masahiro

Asian International Symposium - Polymer -

Monday, March 18, PM

Chair: Kadokawa, Jun-ichi (13:00~14:10)

- 3B2-25[#] Invited Lecture** Design of hydrogels for biomedical application (The Univ. of Tokyo) ○Sakai, Takamasa (13:00~13:20)
3B2-27[#] Invited Lecture Development of low-toxic cellulose solvents and their medical application as an Asian researcher (Kanazawa Univ.)

○Kuroda, Kosuke (13:20~13:40)

- 3B2-29[#] Keynote Lecture** Preservation and separation of bio-molecules using green solvent systems (Central Salt and Marine Chemicals Research Inst.) ○Prasad, Kamallesh (13:40~14:10)

Chair: Naka, Kensuke (14:20~15:00)

- 3B2-33[#] Invited Lecture** Protonic conduction in europium(III)-based metallo-supramolecular polymers (NIMS) ○Yemeni, S. L. V. Narayana (14:20~14:40)
3B2-35[#] Invited Lecture Development of hybrid polymer nanosheets (Tohoku Univ.) ○Yamamoto, Shunsuke (14:40~15:00)

Chair: Ihara, Eiji (15:00~15:50)

- 3B2-37[#] Invited Lecture** Ion Conductive Polymer Nanofibers: Fabrication, Characterization, and Application (Tokyo Metropolitan Univ.) ○Tanaka, Manabu (15:00~15:20)
3B2-39[#] Keynote Lecture Installing/uninstalling functional groups by postpolymerization modification (Korea Advanced Inst. of Science and Technology) ○Seo, Myungeun (15:20~15:50)

Chair: Hashidzume, Akihiro (16:00~16:40)

- 3B2-43[#] Invited Lecture** Cationic Terpolymerization of Vinyl, Cyclic, and Carbonyl Monomers via Selective Crossover Reactions (Osaka Univ.) ○Kanazawa, Arihiro (16:00~16:20)
3B2-45[#] Invited Lecture Designed Monomers for Polymers Leading Backbone Destruction and Reconstruction Reactions (Shinshu Univ.) ○Kohsaka, Yasuhiro (16:20~16:40)

Chair: Satoh, Kotaro (16:40~17:30)

- 3B2-47[#] Invited Lecture** Controlled Self-Assembly of Amphiphilic Copolymers for Functional Nanomaterials (Kyoto Univ.) ○Terashima, Takaya (16:40~17:00)
3B2-49[#] Keynote Lecture Sequence-regulated Polymers Based on Malimide Chemistry (Soochow Univ.) ○Zhang, Zhengbiao (17:00~17:30)

Room B3

Bldg. 2 223

Polymer

Saturday, March 16, AM

Chair: NISHIYAMA, Hiroki (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(1B3-01, 1B3-02, 1B3-03, 1B3-04, 1B3-05, 1B3-06)
1B3-01 Introduction of Various Substituents into the Side Chain of Optically Active Polymer Bearing Rigid Phthalimide Backbone (Grad. Sch. Sci., Osaka Univ.) ○SAEGUSA, Marina; KANBAYASHI, Naoya; ISHIDO, Yuki; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka
1B3-02 Helical π -conjugated poly(arylsocyanide) grafted from silicon substrate (KIT) ○OOMURA, Emika; ASAOKA, Sadayuki
1B3-03 Development of nanofilms with highly ordered one-dimensional mesochannels having metal complexes on inner wall (KIT) ○KOMODA, Maki; ASAOKA, Sadayuki; NAKAO, Keita
1B3-04 Photovoltaic property of circularly arranged multilayer porphyrin array film (KIT) ○AOKI, Shigeya; ASAOKA, Sadayuki; OKAZAKI, Ryouhei
1B3-05 Amphiphilic diblock copolymer having liquid crystalline BTBT mesogens in the side chains (KIT) ○YAMAGUCHI, Naohiro; ASAOKA, Sadayuki
1B3-06 Syntheses and properties of carbazole-containing incompletely-condensed caged silsesquioxane derivatives (KIT) ○UEDA, Yukiho; SATO, Yuri; IMOTO, Hiroaki; NAKA, Kensuke

Chair: KANBAYASHI, Naoya (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(1B3-08, 1B3-09, 1B3-11, 1B3-12, 1B3-13)
1B3-08 Synthesis of soluble network polymers using incompletely condensed cage-silsesquioxanes (KIT) ○ISHIDA, Ayano; HASHIMOTO, Mari; IMOTO, Hiroaki; NAKA, Kensuke
1B3-09[#] Synthesis and Characterization of Segmented Polyurethane with Rotaxane Structure (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAWADA, Jun; AKAE, Yousuke; TSUKAMOTO, Tadashi; TAKATA, Toshikazu
1B3-11 Synthesis and characterization of two-tail-tadpole-type polymer via polymer topology transformation utilizing rotaxane dimer (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○AIBARA, Gouta; NAKAZONO, Kazuko; UCHIDA, Satoshi; TAKATA, Toshikazu
1B3-12 Synthesis of Phosphole-containing π -Conjugated Polymers Possessing Interelement Bonds via Reactive Polymers Containing Phosphoryl Anion Units (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAYASHI, Yumiko

AOTA, Hirokazu; NISIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

1B3-13 Creation of Functional Porous Polymer Particles Based on Living Dispersion Coordination Block Copolymerization of Allene Derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MIYASAKA, Naoto; NISHIYAMA, Hiroki; INAGI, Shinsuke; WAKIYA, Takeshi; TOMITA, Ikuyoshi

Chair: IMOTO, Hiroaki (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(1B3-15, 1B3-16, 1B3-17, 1B3-18)

1B3-15 Photo-controlled Radical Polymerization in Dispersion Polymerization : Unique Microphase Separation in Micro-Particles (Sch. Advanced Sci. Eng., Waseda Univ.) ○HAYAKAWA, Masahiro; SUMIDA, Hiroyo; TAKATA, Kaname; SUGA, Takeo; OYAIZU, Kenichi

1B3-16 Synthesis and Property of Flexible and Symmetrical Ladder Polymers Featuring Diazacyclooctane Skeleton in the Main Chain (Lab. Chem. Life Sci., Tokyo Tech.) ○INOUE, Keiki; ISHIWARI, Fumitaka; FUKUSHIMA, Takanori

1B3-17 Reversible switching of the conformational flexibility of a diazacyclooctane-containing ladder polymer by coordination/elimination of a Lewis acid (Lab. Chem. Life Sci., Tokyo Tech.) ○OFUCHI, Momoko; ISHIWARI, Fumitaka; FUKUSHIMA, Takanori

1B3-18 Facile synthesis and thermal property of supramolecular graft polymer via complexation of self-assembled capsule possessing polystyrene side chains and guest polymers (Grad. Sch. Sci., Hiroshima Univ.) ○NITTA, Natsumi; TAKATSUKA, Mei; KIHARA, Shin-ichi; HAINO, Takeharu

Saturday, March 16, PM

Chair: WAKIOKA, Masayuki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1B3-34, 1B3-35, 1B3-36, 1B3-37, 1B3-38)

1B3-34 A novel preparation method of methylaluminoxane from CO₂ (Grad. Sch. Eng., Hiroshima Univ.) ○TANAKA, Ryo; OKAJIMA, Yuuya; NAKAYAMA, Yuushou; SHIONO, Takeshi

1B3-35 Additive Effects on Telomerization of Alternating Copolymerization of Epoxides with Carbon Dioxide Catalyzed by Cerium Complexes bearing Trizinc Crown Ether Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○AKUTAGAWA, Shin-nosuke; NAGAE, Haruki; SCHINDLER, Tobias; SPANIOL, Thomas P.; OKUDA, Jun; MASHIMA, Kazushi

1B3-36[#] Copolymerization of ethylene and aniline-functionalized propylenes by a scandium catalyst (RIKEN CSRS) ○WU, Xia; WANG, Haobing; NISHIURA, Masayoshi; HOU, Zhaomin

1B3-37 Rare Earth-Catalyzed Copolymerization of Anisyl-contained Butadiene with Ethylene (RIKEN CSRS) ○SAITO, Yusuke; NISHIURA, Masayoshi; HOU, Zhaomin

1B3-38^{#*} Synthesis of self-healing polymers by scandium-catalysed copolymerization of ethylene and anisylpropylenes (RIKEN CSRS) ○WANG, Haobing; YANG, Yang; NISHIURA, Masayoshi; HOU, Zhaomin

Chair: TANAKA, Ryo (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1B3-41, 1B3-43, 1B3-44, 1B3-45, 1B3-46)

1B3-41^{#*} Copolymerization of ethylene and polar monomers using a cobalt complex with tethered cyclopentadienyl ligand (Grad. Sch. Eng., The Univ. of Tokyo) ○JUNG, Jin; NOZAKI, Kyoko

1B3-43 Synthesis and structure of optically active polyquinolylene methylene bearing amino acid as the side chain (Grad. Sch. Sci., Osaka Univ.) ○KATAOKA, Yuki; KANBAYASHI, Naoya; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

1B3-44 Synthesis and fluorescence properties of polydiphenylacetylene having dimethylboryl group in the side chain (Grad. Sch. Sci. and Technol., Niigata Univ.) ○ARAKI, Daichi; TERAGUCHI, Masahiro; AOKI, Toshiki; KANEKO, Takashi

1B3-45 Synthesis and fluorescence properties of poly(1,3-phenyleneethynylene) having tetraphenylethylene moiety (Grad. Sch. Sci. and Technol., Niigata Univ.) ○BANBA, Nozomi; TERAGUCHI, Masahiro; AOKI, Toshiki; KANEKO, Takashi

1B3-46 Synthesis of Allene-containing Polymers through Palladium-catalyzed Cross-coupling Polycondensation. (Dept. Appl. Chem., Nat. Def. Acad.) ○SAITO, Hironori; MIYAHARA, Satoshi; HAYASHI, Shotaro; KOIZUMI, Toshio; YAMAMOTO, Shin-ichi

Chair: NAKAYAMA, Yuushou (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1B3-48, 1B3-49, 1B3-50, 1B3-52, 1B3-53)

1B3-48 Highly Selective Direct Arylation Polymerization of Benzodithiophene Derivatives Using Palladium Catalysts (ICR, Kyoto Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○TORII, Naohiro; WAKIOKA, Masayuki; SAITO, Masahiko; OSAKA, Itaru; OZAWA, Fumiuyuki

1B3-49 The study of synthetic optimization of the azine based conjugated polymer to create a new semi-conducting material (TREMS, Univ. of Tsukuba) ○SUZUKI, Keita; KUWABARA, Junpei; KANBARA, Takaki

1B3-50^{#*} Asymmetric Polycondensations Composed of Tandem reactions of α -

(Halomethyl)acryl monomers (Fac. Textile Sci. Technol., Shinshu Univ.) ○HAGIWARA, Keito; KOHSAKA, Yasuhiro

1B3-52 Synthesis of Macrocycles Consisting of Benzoxazaborine Unit under Polycondensation Conditions: Optimization of Reaction Conditions (Fac. Sci. and Technol., Seikei Univ.) ○FUKAI, Ryoichi; OHISHI, Tomoyuki; YOKOYAMA, Akihiro

1B3-53 Alternative approach to tagging functional groups on cyclic carbonates towards various applications to degradable functional materials (Fac. Eng., Yamagata Univ.) ○WATANABE, Yuya; TAKAOKA, Shunya; HAGA, Yuta; FUKUSHIMA, Kazuki; NARUMI, Atsushi

Chair: ISHIWARI, Fumitaka (18 : 00~18 : 50)

* 17:50-18:00: interval for laptop PC connection.(1B3-55, 1B3-57, 1B3-58, 1B3-59)

1B3-55^{#*} Synthesis of a dithienoarsole polymer using electropolymerization (KIT; Dept. Appl. Chem., Nat. Def. Acad.) ○YAMAZAWA, Chieko; HAYASHI, Shotaro; IMOTO, Hiroaki; NAKA, Kensuke

1B3-57 Synthesis and properties of ABC type periodic copolymer consisting of L-lactic acid, ethylene glycol, and terephthalic acid (Grad. Sch. Eng., Hiroshima Univ.) ○NAKAYAMA, Yuushou; AKIYAMA, Koichi; TANAKA, Ryo; SHIONO, Takeshi; KAWASAKI, Norioki; YAMANO, Naoko; NAKAYAMA, Atsuyoshi

1B3-58 Synthesis and Properties of Methyl-Substituted Poly(phenylene sulfide) and Their Copolymers by Oxidative Polymerization of diaryl disulfide (Sch. Advanced Sci. Eng., Waseda Univ.) ○WATANABE, Seigo; HIRAI, Motoyasu; OYAIZU, Kenichi

1B3-59 Synthesis and Properties of High Refractive Index Aromatic Polythioethers by Oxidative Polymerization (Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUSHIMA, Kanta; SUN, Yushun; OYAIZU, Kenichi

Sunday, March 17, AM

Chair: YAMAGUCHI, Hiroyasu (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2B3-01, 2B3-02, 2B3-03, 2B3-05, 2B3-06)

2B3-01 Side-Chain Lengths and Grafting Densities Dependences on Water Adsorption/Desorption Capability in Graft Copolymers of Thermoresponsive Polymer (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○KATAGIRI, Shunpei; HONDA, Hisashi

2B3-02[#] Well-Structured Random Copolymers Bearing Anionic and Cationic Pendants and Their Tunable Thermo-responsive Behavior in Aqueous Solution (Grad. Sch. Eng., Univ. of Hyogo) ○SHARKER, Komol Kanta; OHARA, Yuki; SHIGETA, Yusuke; YUSA, Shin-ichi

2B3-03^{#*} Adhesion and Thermo-Responsive Behaviors of Alternating Peptides (Fac. Eng., Toyama Pref. Univ.) ○KOYAMA, Yasuhiro; IHSAN, Abu Bin

2B3-05 Self-organization of hydrophilic-hydrophobic π -conjugated diblock copolymers (III) - Investigation of solvent effect - (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SASAKI, Hazuki; RIKUKAWA, Masahiro

2B3-06 Synthesis of hydrophilic-hydrophobic diblock copolymers and evaluation of surface properties on solid substrates (II) - Evaluation of particle morphology - (Grad. Sch. of Sci. Technol., Sophia Univ.) ○MORIKAWA, Ayane; FUJITA, Masahiro; TAKEOKA, Yuku; RIKUKAWA, Masahiro

Chair: KOYAMA, Yasuhiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2B3-08, 2B3-09, 2B3-10, 2B3-11, 2B3-12, 2B3-13)

2B3-08 Effect of alkyl side chain lengths on organized structure and proton transport in sulfonated polyimide thin films (JAIST) ○HONBO, Tetsuya; ONO, Yutaro; SUETSUGU, Kota; HARA, Mitsuo; NAGANO, Shusaku; NAGAO, Yuki

2B3-09[#] Influence of organized structure and high proton conduction by hydrophobic group introduction in sulfonated polyimide thin films (JAIST; Grad. Sch. Eng., Nagoya Univ.) ○NAGAO, Yuki; TANAKA, Teppi; SUETSUGU, Kota; HARA, Mitsuo; NAGANO, Shusaku

2B3-10 Investigation of interfacial structure and proton conductivity of the Nafion thin film on the Au-deposited surface (Sch. Mat. Sci., JAIST) ○ENTA, Aoi; ONO, Yutaro; NAGAO, Yuki

2B3-11 Electrochemical properties of boron layered materials (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMASHITA, Takuya; KAMBE, Tetsuya; HOSONO, Reina; IMAOKA, Shotaro; YAMAMOTO, Kimihisa

2B3-12 Shear deformation on mechanical properties and inner structure of L-LDPE (Fac. Eng., Fukuoka Univ.) ○UENO, Yasuko; PHANTHONG, Patchiya; YAMASAKI, Natsumi; YAMASHITA, Keitaro; NAKANO, Ryoko; SEKIGUCHI, Hiroshi; YAO, Shigeru

2B3-13 The mechanical properties of supramolecular hydrogels cross-linked by inclusion complexes of cyclodextrins and cationic guest molecules. (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.) ○KONISHI, Subaru; ARAMOTO, Hikaru; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu

Chair: UEMURA, Takashi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2B3-15, 2B3-16, 2B3-18, 2B3-19, 2B3-20)

2B3-15 Synthesis of nanographene functionalized with chiral pheny-

lethylphthalimide units. (Grad. Sch. Sci., Hiroshima Univ.) ○NISHITANI, Shohei; SEKIYA, Ryo; HAINO, Takeharu

2B3-16[#] Assessment of the VDW interaction converting a zwitterionic sulfobetaine monomer from the thermal-motion form to the hydrogen-bonded form (Grad. Sch. Agric. Sci., Tohoku Univ.) ○TAKAHASHI, Masae; KIKUCHI, Shou

2B3-18 Optical tweezers for Trapping of a Smart Polymer Droplet with Different Chemical Structures: Microanalysis of the Droplet Using Confocal Raman microspectroscopy (Grad. Sch. Sci., Osaka City Univ.) ○SHOJI, Tatsuya; FUJIWARA, Kayo; MATSUMOTO, Mitsuhiro; ASOH, Taka-aki; TSUBOI, Yasuyuki

2B3-19 Synthesis and Gas Adsorption Properties of a Porous Polymer Based on Triarylboron Building Unit (Fac. Sci., Kyushu Univ.) ○MATSUO, Kazuya; OHTSUBO, Yuta; KAWAMURA, Takuya; OHBA, Masaaki

2B3-20 Metal accumulation of phenyl azomethine dendron immobilized on silica surface (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○ONIZUKA, Misato; ALBRECHT, Ken; YAMAMOTO, Kimihisa

Sunday, March 17, PM

Chair: YUSA, Shin-ichi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2B3-28, 2B3-29, 2B3-31, 2B3-32, 2B3-33)

2B3-28[#] Visualization of Rotaxane Effect: A Study on Movable Cross-Linking Point Using Mechanochromism (Dept. Chem. Sci. & Eng., Tokyo Tech.) ○LU, Yi; AOKI, Daisuke; SAWADA, Jun; KOSUGE, Takahiro; OTSUKA, Hideyuki; TAKATA, Toshikazu

2B3-29^{*} Control of Helical Chirality of Copolymer Composed of Dithienyl Ketone and Benzene (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○OHTA, Eisuke; KOGA, Soichiro; TANI, Syuichi; OGAKI, Takuya; MATSUI, Yasunori; IKEDA, Hiroshi

2B3-31 Controlled Addition of Diamine to Epoxy Polymers via CO₂ Protection for Super-hydrophilic Polymer Coatings (Sch. Advanced Sci. Eng., Waseda Univ.) ○KOISHI, Satoshi; IJIMA, Masakazu; SAHASHI, Yusuke; SUGA, Takeo; OYAIZU, Kenichi

2B3-32 Synthesis and Mechanochemical Reactions of Difluorenylsuccinonitrile-containing Mechanochromic Polyurethanes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SESHIMO, Kota; SAKAI, Hiou; AOKI, Daisuke; OTSUKA, Hideyuki

2B3-33 Synthesis of reactive polymer/silica nanocomposites with dynamic covalent bonds at the filler-matrix interface (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KATAOKA, Shimon; TSURUOKA, Ayuko; AOKI, Daisuke; OTSUKA, Hideyuki

Chair: SUGA, Takeo (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2B3-35, 2B3-37, 2B3-38, 2B3-40)

2B3-35[#] Development of a Polymer/silica Nanohybrids with Both Healability and Mechanochromic Properties Based on Dynamic Covalent Chemistry (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KOSUGE, Takahiro; AOKI, Daisuke; OTSUKA, Hideyuki

2B3-37 Post-polymerization modification with phenyl maleimide isocyanate derivatives and its application (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKASHIMA, Rikito; KIDA, Jumpei; AOKI, Daisuke; OTSUKA, Hideyuki

2B3-38[#] Synthesis of cyclic polymers via dynamic covalent chemistry-based topology transformation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○AOKI, Daisuke; TSURUMI, Nao; OTSUKA, Hideyuki

2B3-40 Activation of Mechanical Covalent Bond Scission by Hydrogen Bonding (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KIDA, Jumpei; AOKI, Daisuke; OTSUKA, Hideyuki

Chair: OTSUKA, Hideyuki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2B3-42, 2B3-43, 2B3-44, 2B3-45, 2B3-46)

2B3-42[#] Polymer modification involving structural change of a polymer chain (Grad. Sch. Eng., The Univ. of Tokyo) ○MOON, Seunghwan; NOZAKI, Kyoko

2B3-43 Synthesized Peptide chain-containing Nitrile N-oxide and its Application to Polymer Modification (Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○IKEDA, Tatsuhito; NAKAZONO, Kazuko; TAKATA, Toshikazu

2B3-44 Effect of macrocycle Pt-complex on hydrosilylation of acetylene-containing polymer (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIGUCHI, Kazuki; NAKAZONO, Kazuko; UCHIDA, Satoshi; TAKATA, Toshikazu

2B3-45 Post-functionalization of octafluorobiphenyl-containing π -conjugated polymers based on nucleophilic aromatic substitution reaction (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NINOMIYA, Kazuyuki; NISHIKAWA, Takanobu; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke

2B3-46^{*} Microwave degradation of polyester fiber or polyester-cotton mixed fiber (Fac. Eng., Sojo Univ.) ○IKENAGA, Kazutoshi; KINJYO, Taichi

Chair: OHBA, Masaaki (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2B3-49, 2B3-50, 2B3-52)

2B3-49 Functionalization of porous silicagel using oxidative degradation of diacylhydrazine (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KUDO, Eiichi; KIHARA, Nobuhiro

2B3-50[#] Controlled synthesis of ladder polymer in coordination nanospaces toward functional carbon materials (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○KITAO, Takashi; HONGU, Ryoto; UEMURA, Takashi

2B3-52 Effect of reaction probability between monomers on degree of polymerization (Fac. Sci., Hokkaido Univ.) ○SADA, Kazuki; ANAN, Shizuka; KOKADO, Kenta

Monday, March 18, AM

Chair: SATOH, Kotaro (9 : 10 ~10 : 30)

* 9:00-9:10: interval for laptop PC connection.(3B3-02, 3B3-04, 3B3-05, 3B3-06)

3B3-02^{*} Design of addition-fragmentation chain transfer agents and their application to polyfumarate-based macromonomer synthesis (Grad. Sch. Eng., Osaka City Univ.) ○SATO, Eriko; KURAHASHI, Junichiro; TAMARI, Noboru; KODA, Yuta; HORIBE, Hideo

3B3-04 Design of controlled radical polymerization initiators by using photo induced iodoperfluoroalkylation (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○UENO, Manami; YAJIMA, Tomoko; KANBARA, Tadashi

3B3-05 Vinyl Polymerization of Polar Monomers Catalyzed by Lewis Pair (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MATSUOKA, Shin-ichi; SHIMIZU, Atsushi; TAKEI, Momoko; SUZUKI, Masato

3B3-06 Direct synthesis of alkoxyamines derived from α, β -unsaturated carbonyl compounds and their application as polymerization initiators (Grad. Sch. Eng., Tokyo City Univ.; Grad. Sch. Sci. & Tech., NAIST) ○KYOKANE, Shuji; WATANABE, Genki; ANDO, Tsuyoshi; SHIOTSUKI, Masashi

Chair: KOHSAKA, Yasuhiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3B3-08, 3B3-09, 3B3-10, 3B3-11, 3B3-13)

3B3-08[#] Synthesis of Sequence-Regulated Vinyl Polymers by Combining Atom Transfer Radical Addition and Metathesis Polymerization (Grad. Sch. Eng., Nagoya Univ.) ○MIYAJIMA, Masato; SATOH, Kotaro; KAMIGAITO, Masami

3B3-09[#] Simultaneous Cationic/PET-RAFT Copolymerization Combining Photoredox Catalyst and Lewis Acid (Grad. Sch. Eng., Nagoya Univ.) ○SUN, Zhihong; UCHIYAMA, Mineto; SATOH, Kotaro; KAMIGAITO, Masami; XU, Jiangtao; BOYER, Cyrille

3B3-10 Precise Syntheses of Alternating Copolymers with N-acryloyl Amino Acid Unit via Selective Cyclopolymerization and Sequence-Oriented Properties (Sch. Eng., Kyoto Univ.) ○SHINSUKE, Segawa; KAMETANI, Yuki; TERASHIMA, Takaya; OUCHI, Makoto

3B3-11[#] Alkenyl Boronic Esters as a New Class of Monomers for Chain-Growth Polymerization (Grad. Sch. Eng., Kyoto Univ.) ○NISHIKAWA, Tsuyoshi; OUCHI, Makoto

3B3-13 Promoted Polymerization of Dipicolylamine Acrylate Monomer using Pre-formed Monomer Metal Complex and Synthesis of Polymer Metal Complex Composed of Multiple Metal Species (Grad. Sch. Sci., TUS) ○KUROKAWA, Sosuke; OSAWA, Shigehito; OTSUKA, Hidenori

Chair: OUCHI, Makoto (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3B3-15, 3B3-16, 3B3-18, 3B3-19)

3B3-15 Radical and cationic polymerization of dehydroasprin and degradation of the resulting polymers (Fac. Textile Sci. Technol., Shinshu Univ.) ○KAZAMA, Akane; KOHSAKA, Yasuhiro

3B3-16[#] Living Cationic Polymerization of Alicyclic Conjugated Dienes with a Reactive *exo*-Methylene Group Derived from Naturally-Occurring Terpenoids (Grad. Sch. Eng., Nagoya Univ.) ○NISHIDA, Takenori; SATOH, Kotaro; KAMIGAITO, Masami

3B3-18 Chiroptical Properties of Poly(phenyl isocyanate) Derivatives with Stimuli-Responsive Optically Active Groups at the Initial Chain End (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○FUKUDA, Mayu; HIROSE, Daisuke; FREIRE, Félix; MAEDA, Katsuhiro

3B3-19[#] Control of Random Copolymerization of Alkyl Methacrylates Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Yusuke; JIANG, Yiyuan; NAGAKI, Aiichiro

Room B4

Bldg. 2 224

Physical Organic Chemistry -Structures and Properties-

Saturday, March 16, AM

Photophysical properties

Chair: MATSUDA, Kenji (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1B4-01, 1B4-02, 1B4-03, 1B4-04, 1B4-05, 1B4-06)
- 1B4-01** Synthesis and Properties of Various Azinyl Carbazole-based Boron Difluoride Complexes (Grad. Sch. Sci. Tech., Gunma Univ.)
○YAMAMOTO, Koji; MATSUI, Shun; NAKAMURA, Yosuke
- 1B4-02[#]** Synthesis and Optical Properties of *o*-Carborane Derivatives with Nitrogen-containing Ring (Grad. Sch. Eng., Kyoto Univ.) ○OCHI, Junki; TANAKA, Kazuo; CHUJO, Yoshiki
- 1B4-03** Synthesis and Photophysical Properties of Super-Photostable Naphthophosphole Dyes with a Phosphinic Acid Moiety (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; WPI-iCeMS, Kyoto Univ.)
○NAKASHIMA, Natsuki; FUKAZAWA, Aiko; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 1B4-04** Synthesis of Xanthene Derivatives Aimed at the Drug Release by Long-Wavelength Light (Fac. Eng., Kyushu Univ.) ○IWAMORI, Shohei; KOIDE, Taro; HISAEDA, Yosio
- 1B4-05** Fluorescent π -expanded oxepins: Conformational planarization in the excited state (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST)
○KOTANI, Ryota; LIU, Pengpeng; SAITO, Shohei; OSUKA, Atsushi
- 1B4-06** Development of Peryleneimide-based Flapping Fluorophore and its excited-state dynamics (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST; RAP, RIKEN; Molecular Spectroscopy Lab., RIKEN) ○KIMURA, Ryo; LIU, Pengpeng; KURAMOCHI, Hikaru; TAHARA, Tahei; SAITO, Shohei; OSUKA, Atsushi

Circularly polarized luminescence

Chair: MORISAKI, Yasuhiro (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1B4-08, 1B4-09, 1B4-10, 1B4-12, 1B4-13)
- 1B4-08** Development of propeller chiral molecules based on cyclodextrins and their circular polarized luminescence (CPL) properties (Grad. Sch. Eng., Osaka Univ.) ○KAJIWARA, Rikuo; SHIGEMITSU, Hajime; MORI, Tadashi; KIDA, Toshiyuki
- 1B4-09** Solvent effect on the chiro-optical properties of chiral naphthalene diimide dimer molecules (IMRAM, Tohoku Univ.) ○ARAKI, Yasuyuki; SATO, Takehito; KURONUMA, Makoto; KAKIZAKI, Tomonori; NISHIJIMA, Masaki; WADA, Takehiko
- 1B4-10[#]** Tunability of Aggregation-Induced Emission enhanced(AIEh)-Circularly Polarized Luminescence(CPL) of chiral peryleneimide for CP-LEDs (Fac. Sci. Eng., Kindai Univ.) ○HARA, Nobuyuki; TANIGUTHI, Ayano; WATANABE, Kouhei; MURATA, Ryosuke; HARADA, Takunori; NISHIKAWA, Hiroyuki; IMAI, Yoshitane
- 1B4-12** Solid-state circular polarized luminescence(CPL) of chiral binaphthylpyridine fluorophores (Grad. Sch. Sci. Eng., Kindai Univ.; Oita Univ.)
○NAKAJIMA, Gaku; OKUDA, Koji; HARA, Nobuyuki; HARADA, Takunori; IMAI, Yoshitane
- 1B4-13** Preparation of solvatochromic binaphthyl fluorophore with circularly polarized luminescence (CPL) property. (Grad. Sch. Sci. Eng., Kindai Univ.)
○TAKAMURA, Kenya; HARA, Nobuyuki; SEKI, Yamana; IMAI, Yoshitane

Chair: HASEGAWA, Masashi (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1B4-15, 1B4-16, 1B4-17, 1B4-18, 1B4-19, 1B4-20)
- 1B4-15** Synthesis and Spectroscopic Properties of Chiral Ligand-Substituted Boron Dipyrromethene Dimers (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Yudai; SAKAI, Hayato; HASOBE, Taku
- 1B4-16** Transient Circular Dichroism Spectra of [n]carbohelicenes (n = 6, 9) in the Photo-excited Triplet State (IMRAM, Tohoku Univ.)
○KURONUMA, Makoto; ARAKI, Yasuyuki; NISHIJIMA, Masaki; MORI, Tadashi; WADA, Takehiko
- 1B4-17** Synthesis and characterization of chiroptical property of face-to-face chiral anthracene dimers (IMRAM, Tohoku Univ.) ○KAKIZAKI, Tomonori; KURONUMA, Makoto; ARAKI, Yasuyuki; NISHIJIMA, Masaki; WADA, Takehiko
- 1B4-18[#]** Synthesis and Optical Properties of Dinuclear triple helical metal complexes of Hydradine-Schiff Base Linked Bispyrrole (Grad. Sch. Eng., Kyushu Univ.) ○ISHIHAMA, Kohei; ONO, Toshikazu; HISAEDA, Yoshio
- 1B4-19** Preparation of chiral orthonaphthyl/Eu hybridised luminophores and

their circularly polarized luminescence (CPL) properties (Grad. Sch. Sci. Eng., Kindai Univ.; Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.; ORIST)
○KAJI, Daiki; HARA, Nobuyuki; KITAYAMA, Masumi; SHIZUMA, Motohiro; TSUBAKI, Kazunori; IMAI, Yoshitane

- 1B4-20** Circularly polarized luminescence (CPL) from chiral peptide-Eu (III) hybridised luminophore (Grad. Sch. Sci. Eng., Kindai Univ.; ORIST)
○YOSHIKAWA, Hiroki; MIMURA, Yuki; MOTOMURA, Yuki; SHIZUMA, Motohiro; KITAMATSU, Mizuki; IMAI, Yoshitane

Saturday, March 16, PM

Phosphorescence

Chair: TANI, Yousuke (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1B4-28, 1B4-29, 1B4-30, 1B4-31, 1B4-33)
- 1B4-28** Substitution Pattern Effect of Bis(diarylphosphinyl)bis(silylalkoxy)benzenes on Luminescent Properties (KIT) ○NAGANO, Sho; SHIMIZU, Masaki
- 1B4-29** Room Temperature Phosphorescent Polymers Consisting of Diaryl-bis(silylalkoxy)benzene Moieties as Luminogen (KIT) ○KINOSHITA, Takumi; SHIMIZU, Masaki
- 1B4-30** Design of Luminescent Color and Lifetime Tunable Materials by Molecular Foldamer (Fac. Eng., Kyushu Univ.) ○KIMURA, Kazuki; ONO, Toshikazu; KOIDE, Taro; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 1B4-31[#]** Organic alloys for triplet-state photophysics: Room temperature phosphorescence and optical sensor applications (Grad. Sch. Eng., Kyushu Univ.) ○ONO, Toshikazu; YAMANAKA, Yuri; HISAEDA, Yoshio
- 1B4-33** Large-scale relativistic quantum chemistry calculation on triplet photophysics of organic alloys (Fac. Sci., Ochanomizu Univ.) ○SASAKI, Miori; ONO, Toshikazu; MORI, Hiroto

Mechanochromism

Chair: SEKI, Tomohiro (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1B4-35, 1B4-36, 1B4-37, 1B4-38, 1B4-39, 1B4-40)
- 1B4-35** The steric effect of substituents at the 5-positions of di(2-thienyl) diketone derivatives on their room temperature phosphorescence-to-phosphorescence mechanochromism (Grad. Sch. Sci., Osaka Univ.) ○TERASAKI, Morihisa; TANI, Yousuke; OGAWA, Takuji
- 1B4-36** The effect of bromo groups on the phosphorescent mechanochromic behavior of di(2-thienyl) diketone derivatives (Sch. Sci., Osaka Univ.)
○KOMURA, Mao; TERASAKI, Morihisa; TANI, Yousuke; OGAWA, Takuji
- 1B4-37** Luminescent mechanochromism of bis-ester-bridged stilbene derivatives having triethylsilyl groups (Grad. Sch. Sci., Osaka Univ.) ○OGAWA, Takuro; TANI, Yousuke; OGAWA, Takuji
- 1B4-38** Two-Component Mechanochromic Luminescence of Pyrenylthiophene Derivative (Col. Eng. Sci., Yokohama Natl. Univ.) ○IKEYA, Minako; KATADA, Genki; ITO, Suguru
- 1B4-39** Solid-State Emission Properties of Triphenylimidazolylbenzothiadiazole Derivatives (Grad. Sch. Eng., Yokohama Natl. Univ.) ○NAGAI, Sayaka; UBUKATA, Takashi; ITO, Suguru
- 1B4-40** Tunable Emission Colors Found in Fluorescence-phosphorescence Dual-emission Compounds (NIT, Kurume College) ○TANAKA, Honoka; MATSUMOTO, Taisuke; ITO, Mitsunori; HIYOSHI, Hidetaka; ISHI-I, Tsutomu

Photophysical properties

Chair: SUZUKI, Shuichi (15 : 50 ~ 16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1B4-42, 1B4-43, 1B4-44, 1B4-45, 1B4-47)
- 1B4-42** Study of the one-way photoisomerization of stilbazoles (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○UENO, Masaharu; OKUMURA, Mayu; OHMURA, Satoshi; MIYOSHI, Norikazu
- 1B4-43** Structures and Optical Properties of TTF Analogs Containing a λ 5-phosphinine Unit (Grad. Sch. Sci., Eng., Ehime Univ.) ○KIMURA, Hitoshi; HANDA, Ayaka; HASHIMOTO, Naoki; YOSHIMURA, Aya; OHTA, Hidetoshi; SHIRAHATA, Takashi; HAYASHI, Minoru; MISAKE, Yohji
- 1B4-44** Unusual Tetrabutylammonium Fluoride-Responsive Emission Color Changes of a Fluorescent Urea Derivative (Grad. Sch. Med., Eng., Univ. of Yamaguchi) ○ENAMI, Yusuke; OBATA, Makoto; TAKAHASHI, Masaki
- 1B4-45[#]** Interaction of Mismatched Five-Coordinate Schiff Base Ligands with Zinc Ion for Enhanced Fluorescence (LCCMS, IMS; Univ. Nagasaki, Siebold; PRESTO, JST) ○KURAHASHI, Takuya
- 1B4-47** Near-Infrared Emission Properties of Hexaphyrin(1,1,0,1,1,0) and Its Analogues. (Grad. Sch. Sci., Osaka Univ.) ○WAKAIKI, Takahiro; YAMASHITA, Ken-ichi; OGAWA, Takuji

Chair: KUSAMOTO, Tetsuro (17 : 00 ~ 18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1B4-49, 1B4-51, 1B4-52,

1B4-53, 1B4-54)

- 1B4-49*** Fluorescence Properties and Anion Responsive Behavior of Diethylpyrrole Derivatives with Cyano Groups (Sch. Env. Sci. Eng., KUT)
○YOKOYAMA, Soichi; NISHIWAKI, Nagatoshi
- 1B4-51** Polymorphism of manganese(II) complexes in the crystalline state and luminochromism (Grad. Sch. Eng., Osaka Univ.; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Sch. of Med., Jichi Med. Univ.; UNISOKU Co., Ltd.; Sch. Eng., Nihon Univ.) ○KITAGAWA, Kota; SUENOBU, Tomoyoshi; NAKAYAMA, Ken-ichi; KASAI, Hidetaka; NISHIBORI, Eiji; ICHIYANAGI, Kouhei; SATO, Ayana; NAKAGAWA, Tatsuo; KATO, Ryuzi
- 1B4-52** Theoretical Estimation and Experimental Evaluation of the Efficient Exchange Interaction on the Annulated Isomer of Diarylethene Biradical (Grad. Sch. Eng., Kyoto Univ.) ○SUMIYA, Youki; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

Molecular electronics, Organic radicals

- 1B4-53** Synthesis and properties of asymmetrically modified spirobiacridinedioxyls (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications)
○ICHIHASHI, Kana; KANETOMO, Takuya; ENOMOTO, Masaya; ISHIDA, Takayuki
- 1B4-54** Synthesis of Spirobis(trinitroxides) (Fac. Sci., TUS)
○KANETOMO, Takuya; FUKUSHIMA, Yusuke; ICHIHASHI, Kana; ISHIDA, Takayuki; ENOMOTO, Masaya

Chair: ISHIDA, Takayuki (18 : 10~18 : 40)

* 18:00-18:10: interval for laptop PC connection.(1B4-56, 1B4-57, 1B4-58)

- 1B4-56*** Development of D-A dyads with molecular-layer forming ability toward the realization of molecular diode (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○NOJO, Wataru; NIJHUIS A., Christian; ISHIGAKI, Yusuke; SUZUKI, Takanori
- 1B4-57*** Fabrication and Structure-Magnetism correlation of one-dimensional polymer complex consisting of paramagnetic metal ions and organic radicals (Grad. Sch. Sci., The Univ. of Tokyo) ○UCHIDA, Hikaru; KIMURA, Syun; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi
- 1B4-58** Photo-properties of Norbornadiene Derivative With Quinoid Structures (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Sci., Eng., Ehime Univ.)
○TANABE, Chika; HATANNO, Sayaka; ISHIBASHI, Yukihide; ASahi, Tsuyoshi; ABE, Manabu

Sunday, March 17, AM

Organic semiconductors

Chair: MISAKI, Yohji (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2B4-01, 2B4-03, 2B4-05, 2B4-06)

- 2B4-01**** Control of packing structure of organic semiconductors by introduction of small substituents (RIKEN CEMS; Grad. Sch. Sci., Tohoku Univ.)
○OGAKI, Takuya; TAKIMIYA, Kazuo
- 2B4-03**** Near-infrared absorbing organic semiconductors based on naphthodithiophenedione (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS)
○KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 2B4-05** The Synthesis and Properties of Bipyranlydene Substituted Heteroaromatics with High HOMO Energy Levels (Grad. Sch. Sci., Tohoku Univ.)
○MATSUO, Takaya; KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 2B4-06** Synthesis and properties of quinoidal oligothiophenes having carbonyl terminal groups (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○ASOH, Takato; KAWABATA, Kohsuke; TAKIMIYA, Kazuo

Chair: OKAMOTO, Toshihiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2B4-08, 2B4-10, 2B4-12, 2B4-13)

- 2B4-08**** Novel electron-deficient Calamitic Liquid Crystalline Organic Semiconductors Based on Dibenzo[c,h][2,6]naphthyridine: Synthesis and Mesophase analysis (Imaging Sci. & Eng. Lab., Tokyo Tech.) ○YANG, Ming-cong; IINO, Hiroaki; HANNA, Jun-ichi
- 2B4-10**** Rational Packing Design to Approach Thienoacene-based Organic Semiconductors Rivaling Rubrene (CEMS, RIKEN) ○WANG, Chengyuan; TAKIMIYA, Kazuo
- 2B4-12** Effects of selenium substitution in β -bis(methylthio)benzodithiophene (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○TAKENAKA, Hiroyuki; KAWABATA, Kohsuke; TAKIMIYA, Kazuo; OGAKI, Takuya
- 2B4-13** Odd-Even Effect of Substituted Alkyl Chain Length on Organic Semiconducting Properties of Tetrathienonaphthalenes (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○TANIGUCHI, Kimiya; YAMAMOTO, Atsushi; KUMEDA, Motoki; SUENAGA, Yu; MATSUI, Yasunori; ASADA, Toshio; OHTA, Eisuke; KOSEKI, Shiro; NAITO, Hiroyoshi; IKEDA, Hiroshi

Sunday, March 17, PM

Solid-state emission

Chair: NISHIUCHI, Tomohiko (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2B4-34, 2B4-35, 2B4-36, 2B4-37, 2B4-38, 2B4-39)

- 2B4-34** Synthesis and optical properties of cyclic tetraphenylethylene of which twist of C=C bonds is restricted by oligo(ethylene glycol)s. (Sch. Sci., Hokkaido Univ.) ○TANAKA, Yuma; MACHIDA, Takashi; KOKADO, Kenta; SADA, Kazuki
- 2B4-35** Synthesis and physical properties of new AIE dyes having Azo group (FIRST, Konan Univ.) MURASHIMA, Takashi; ○TATEIWA, Masahiro
- 2B4-36** Aggregation-induced emission properties of 2-vinylpyrrole derivatives and their applications (NIT, Kitakyushu College) ○OKAWARA, Toru; MATSUFUJI, Yurina; MIZUNO, Kohei; TAKEHARA, Kenji
- 2B4-37** Development of Fluorescent Materials with Non-covalent Interactions (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○MORI, Toshiaki; YOSHIGOE, Yusuke; KUNINOBU, Yoichiro
- 2B4-38** Design, Synthesis, and Properties of Organic Luminophores That Exhibit Efficient Ultraviolet Fluorescence in the Solid State (KIT) ○NISHIMURA, Kenta; SHIMIZU, Masaki
- 2B4-39** Design and Characterization of Silicon-bridged 2-Arylindoles That Exhibit Efficient Fluorescence in Liquid (KIT) ○MINEYAMA, Mizuki; SHIMIZU, Masaki

Photophysical properties

Chair: KAMADA, Kenji (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(2B4-41, 2B4-43, 2B4-45, 2B4-46)

- 2B4-41**** Observation of Quantitative Intermolecular Two-Electron Transfer Process through Highly Efficient Singlet Fission in Tetracene Dimer (Fac. Sci. Tech., Keio Univ.; MPRC, Kobe Univ.; Dept. Chem. Bioeng., Tampere Univ. Tech.) ○NAKAMURA, Shunta; SAKAI, Hayato; NAGASHIMA, Hiroki; KOBORI, Yasuhiro; TKACHENKO, Nikolai; HASOBE, Taku
- 2B4-43**** Long-lived Triplet Excitons Formed by Intramolecular Singlet Fission of Adamantane-linked Tetracene Dyad (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; MPRC, Kobe Univ.; UNISOKU Co., Ltd.) ○MATSUI, Yasunori; KAWAOKA, Shuhei; NAGASHIMA, Hiroki; NAKAGAWA, Tatsuo; OKAMURA, Naoki; OHTA, Eisuke; YAGI, Shigeyuki; KOBORI, Yasuhiro; IKEDA, Hiroshi
- 2B4-45** Silyl-substituted anthracene for near-infrared-to-blue photon upconversion (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○HARUKI, Rena; SASAKI, Yoichi; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2B4-46** Synthesis of several arylselanyl-BODIPY dyes and the substitution effect on photon upconversion (Urban Environmental Sciences, Tokyo Metropolitan University) ○HASEGAWA, Ryohei; IIDUKA, Keita; KUBO, Yuji

Chair: HASOBE, Taku (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(2B4-48, 2B4-49, 2B4-50, 2B4-52)

- 2B4-48** Single-absorber organic solar cells using thermally activated delayed fluorescence (TADF) molecules with longer wavelength absorption (Grad. Sch. Eng., Osaka Univ.) ○ARIIZUMI, Kosuke; OKUDA, Yuki; SUENOBU, Tomoyoshi; NAKAYAMA, Ken-ichi
- 2B4-49** Enhancing nuclear spin polarization of water using triplet-DNP based on new polarizing agents (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○KAWASHIMA, Yusuke; FUJIWARA, Saiya; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2B4-50**** Development of new triplet polarizing agents for triplet dynamic nuclear polarization (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2B4-52** Synthesis of pentacycles exhibiting strong solid-state emission and the substituent effects on their photophysical properties (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) YAGISHITA, Fumitoshi; ○HOSHI, Keita; HASHIZUME, Hirokazu; AZUMA, Kikuko; TEZUKA, Yoshihiko; KAWAMURA, Yasuhiko

Monday, March 18, AM

Chair: MAEDA, Rina (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3B4-01, 3B4-02, 3B4-03, 3B4-05, 3B4-06)

- 3B4-01** A supramolecular monomer capable of self-assembling into helically coiled supramolecular polymers and crystalline fibers (IGPR, Chiba Univ.) ○ISOBE, Atsushi; PRABHU, Deepak D.; YAGAI, Shiki

- 3B4-02** Supramolecular polymer that shows a structural transition from helical to fibrillar nanoarchitectures (IGPR, Chiba Univ.) ○TAKAHASHI, Sho; YAGAI, Shiki
- 3B4-03**** Supramolecular copolymers realized by inhomogeneous monomer composition along main chains (IGPR, Chiba Univ.; Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○KITAMOTO, Yuichi; PAN, Ziyang; PRABHU, Deepak; YAGAI, Shiki
- 3B4-05** Precise control on construction of metal oxide nanoparticles by depth-tuning of reactive functional groups inside the Pd₁₂L₂₄ porous complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○MORITA, Eri; DOMOTO, Yuya; FUJITA, Makoto
- 3B4-06** Synthesis of nano layers based on woven metal-peptide polymers (Grad. Sch. Eng., The Univ. of Tokyo) ○HISADA, Yutaro; SAITO, Ami; SAWADA, Tomohisa; FUJITA, Makoto

Chair: HAKETA, Yohei (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3B4-08, 3B4-09, 3B4-10, 3B4-12, 3B4-13)
- 3B4-08** Catenane formation by topology control (Fac. Eng., Chiba Univ.) ○KATO, Yasuki; PRABHU, Deepak D.; YAGAI, Shiki
- 3B4-09** Structural transition of coiled supramolecular polymers into crystalline sheets (Institute for Global Prominent Research, Chiba Univ.) ○AIZAWA, Takumi; YAGAI, Shiki
- 3B4-10**** Fluorescent Supramolecular Polymers by Bent Terphenylenes (IGPR, Chiba Univ.) ○OUCHI, Hayato; YAGAI, Shiki
- 3B4-12** Structural and Photophysical Properties of Pentacene Dimer-Terminated Alkanethiolate Monolayer on Semiconductor Nanoparticles (Fac. Sci. Tech., Keio Univ.) ○SAEGUSA, Toshiyuki; SAKAI, Hayato; HASOBE, Taku
- 3B4-13** Benzothiadiazole-Based Dye Photosensitizers for Water Splitting Using Dye- Encapsulated Carbon Nanotubes (Okayama Univ.) ○SAGAWA, Ryohei; MIYAKE, Hideaki; IZAWA, Takumi; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

Chair: SAWADA, Tomohisa (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3B4-15, 3B4-17, 3B4-19, 3B4-20)
- 3B4-15**** Pseudo-Polyrotaxane Nanosheet Fabricated Via Hierarchical Self-Assembly (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○UENUMA, Shuntaro; MAEDA, Rina; YOKOYAMA, Hideaki; ITO, Kohzo
- 3B4-17**** Pseudo-polyrotaxane nanosheet for a novel drug delivery system (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○MAEDA, Rina; UENUMA, Shuntaro; KOBAYASHI, Ryota; KASAI, Kengo; YOKOYAMA, Hideaki; ITO, Kohzo
- 3B4-19** Development of low molecular weight hydrogelator with maltose as hydrophilic group (Fac. Sci., Shizuoka Univ.) ○YOSHISAKI, Ryohei; MAKI, Takumi; YAMANAKA, Masamichi
- 3B4-20*** Catalyst nanoparticles fabrication for development of olefin metathesis reactions in aqueous media (IMRAM, Tohoku Univ.) ○WANG, Yanlin; KOSEKI, Yoshitaka; KASAI, Hitoshi

Monday, March 18, PM

Chair: DOMOTO, Yuya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3B4-28, 3B4-29, 3B4-30, 3B4-32)
- 3B4-28** Synthesis of zinc complex of amino-porphyrin and its molecular recognition (Coll. Life Sci., Ritsumeikan Univ.) TAMIAKI, Hitoshi; ○NAKAMURA, Soichi
- 3B4-29** Synthesis and Photophysical Properties of a Chlorophyll Dimer Appended by Fullerene (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHINOZAKI, Yoshinao; TATEBE, Tomohiro; TAMIAKI, Hitoshi
- 3B4-30**** Nanosheet of supramolecular assembly by a zinc chlorophyll derivative (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHOJI, Sunao; OGAWA, Tetsuya; TAMIAKI, Hitoshi
- 3B4-32**** Columnar Liquid-Crystals of Giant Macrocyclic Accommodating Porphyrin (Grad. Sch. Sci., Nagoya Univ.) ○KAWANO, Shin-ichiro; SAKATA, Takuya; TANAKA, Kentaro

Chair: SEKI, Tomohiro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3B4-35, 3B4-36, 3B4-38)
- 3B4-35** Columnar Liquid-Crystalline Macrocycles toward Anisotropic Lithium-Ion Transportation (Grad. Sch. Sci., Nagoya Univ.) ○TOMITA, Kyohei; KAWANO, Shin-ichiro; YOSHIO, Masafumi; TANAKA, Kentaro
- 3B4-36*** Dimension-Controlled Assemblies Based on π -Electronic Ion Pairs (Coll. Life Sci., Ritsumeikan Univ.) ○HAKETA, Yohei; MAEDA, Hiromitsu
- 3B4-38*** Young Scholar Lectures of CSJ Exploration of Nanospaces Utilizing Liquid-crystalline Macrocycles (Grad. Sch. Sci., Nagoya Univ.) ○KAWANO, Shin-ichiro

Chair: SAKAI, Hayato (15 : 50~17 : 00)

- * 15:40-15:50: interval for laptop PC connection.(3B4-42, 3B4-43, 3B4-44, 3B4-45, 3B4-46, 3B4-47, 3B4-48)
- 3B4-42** Stimuli-Responsive Properties of Gold(I) Isocyanide Complexes

- Having Silyl Groups (Grad. Sch. Eng., Hokkaido Univ.) ○TOYOSHIMA, Naoki; SUMITANI, Toshiki; SEKI, Tomohiro; ITO, Hajime
- 3B4-43** Ferroelastic properties of luminescent N-heterocyclic carbene gold(I) complexes (Grad. Sch. Eng., Hokkaido Univ.) ○FENG, Chi; KASHIYAMA, Kentaro; SEKI, Tomohiro; SAKAMOTO, Shunichi; TAKASAKI, Yuichi; TAKAMIZAWA, Satoshi; ITO, Hajime
- 3B4-44** Development of Emissive Materials with Long Lifetime Using Amino Acid Analogues (Grad. Sch. Eng., Hokkaido Univ.) ○TAGUCHI, Jumpei; MASHIMO, Takaki; SEKI, Tomohiro; ITO, Hajime
- 3B4-45** High pressure effect on a synthetic membrane with isoprenoid module in hydrophobic alkyl chain (Grad. Sch. Eng., Oita Univ.) ○ABE, Yudai; NOBUOKA, Kaoru; SUZUKI, Ayako; TAKAHASHI, Toru; OHGA, Yasushi; ISHIKAWA, Yuichi
- 3B4-46** Photo-Carbon Dioxide Capture and Utilization Technique by Photo-responsive amines (Grad. Sch. Eng., TUS) ○MOTOYAMA, Ryo; IMAHORI, Tatsushi
- 3B4-47** Observation of Large Solid-solid Phase Transition Enthalpy due to Switching of Molecular Motions (Fac. Urban Envr. Sci., TMU) ○SETAKA, Wataru; TAKASHIMA, Hideaki; YAMAGUCHI, Kentaro
- 3B4-48*** Organic Synthesis with Three-dimensional Ball Mill using Liquid Materials as Starting Materials (NIT, Sendai College) ○ENDO, Tomoaki; NAGAO, Daisuke; NAGAO, Fumiyo; YAMAOKA, Yasuaki; KWON, Eunsang; NAGAIHIRO, Shinichirou

Room C1

Bldg. 3 321

Coordination Chemistry, Organometallic Chemistry

Saturday, March 16, PM

Cu

Chair: KUME, Shoko (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1C1-23, 1C1-24, 1C1-26, 1C1-27)
- 1C1-23** Construction of a Gold(I)-Silver(I)-Copper(II) Multinuclear Complex with Triphosphine and D-Penicillamine (Grad. Sch. Sci., Osaka Univ.) ○TAKEDA, Hiroto; KOJIMA, Tatsuhiro; KONNO, Takumi
- 1C1-24**** Construction of Heterotrimetallic Coordination Polymers Showing a Heterogeneous Electrochemical Activity (Grad. Sch. Sci., Osaka Univ.) ○KUWAMURA, Naoto; KURIOKA, Yoshinari; KONNO, Takumi
- 1C1-26** Modification of luminescent properties of copper(I)-bis(pyridyl)ethane coordination polymers by formation of non-isomorphous mixed-crystals with piperazine (Grad. Sch. Sci. Eng., Univ. of Toyama) ○TAKEUCHI, Sota; OHTSU, Hideki; TSUGE, Kiyoshi
- 1C1-27**** Elucidation of Multi-step Nucleation Process of Metal-Organic Frameworks by using Fluidic Systems (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TANAKA, Yoko; KITAMURA, Yu; KAWANO, Ryujii; HONMA, Tetsuo; TAKAYA, Hikaru; YOSHIKAWA, Hirofumi; TANAKA, Daisuke

Chair: MORIMOTO, Yuma (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1C1-30, 1C1-31, 1C1-32, 1C1-34)
- 1C1-30** Chemical Modifications of Dicopper Complexes for the Cell Introduction (Fac. Sci. Eng., Doshisha Univ.) ○HATA, Machi; KADOYA, Yuki; HITOMI, Yutaka; KODERA, Masahito
- 1C1-31** Visualization of Oxidative DNA Cleavage by Dicopper Complex with BODIPY-modified ligand (Fac. Sci. Eng., Doshisha Univ.) ○TANAKA, Yoshiki; SAITO, Itsuki; KADOYA, Yuki; HITOMI, Yutaka; KODERA, Masahito
- 1C1-32**** Development of Dicopper Complexes Accelerating Oxidative DNA Cleavage with Hydrogen Peroxide and their Cytotoxicity (Grad. Sch. Eng., Doshisha Univ.) ○KADOYA, Yuki; HATA, Machi; HITOMI, Yutaka; KODERA, Masahito
- 1C1-34*** Photocatalytic CO₂ reduction using heteroleptic type Cu complex redox photosensitizer with improved light-absorbing ability (Sch. Sci., Tokyo Tech.) ○TAKEDA, Hiroyuki; MONMA, Yu; ISHITANI, Osamu

Chair: OHTSU, Hideki (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1C1-37, 1C1-38, 1C1-39, 1C1-40, 1C1-41)
- 1C1-37** Dicopper Complexes with DPA-Derived Amide Ligands: Synthesis, Structure, Oxidative DNA Cleavage, and Cytotoxicity (Fac. Sci. Eng., Doshisha Univ.) ○SORADA, Tomoki; KADOYA, Yuki; HITOMI, Yutaka; KODERA, Masahito
- 1C1-38** Synthesis, Structures, and Selective Alkane Oxidations of dicopper(II) complexes having a hydrophobic binding site (Fac. Sci. Eng., Doshisha Univ.) ○WADA, Kazuhito; TAKAHASHI, Hiroto; TSUJI, Tomokazu;

- HITOMI, Yutaka; KODERA, Masahito
1C1-39 Detection of Copper(II)-NO Reactive Species for Alcohol Nitrosation Reaction (Grad. Sch. Eng., Osaka Univ.) ○SHIMIZU, Yusuke; MORIMOTO, Yuma; ITOH, Shinobu
1C1-40 Synthesis and Reactivity Study of Mononuclear Copper Complexes for Lower Alkane Hydroxylation (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○NAKANISHI, Aya; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu
1C1-41[#] Design, Synthesis, and Catalytic Activity of a Mononuclear Copper Complex as an Active Site Model of Copper Monooxygenases (Grad. Sch. Eng., Osaka Univ.) ○FUKATSU, Arisa; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu

Chair: TANAKA, Daisuke (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1C1-44, 1C1-45, 1C1-46, 1C1-47, 1C1-48, 1C1-49)
1C1-44[#] Oxidation reaction of dinuclear copper complex with asymmetric coordination environment mimicked as pMMO active site (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○NISHIMURA, Shibuki; OCHIAI, Tatsuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
1C1-45 Luminochromism of a polynuclear copper complex in fast response to an external stimulus (Grad. Sch. Eng., Osaka Univ.) ○ARAHORI, Ikuya; SUENOBU, Tomoyoshi; NAKAYAMA, Ken-ichi; NAKAGAWA, Tatsuo; KATO, Ryuzi
1C1-46 Direct Observation of Adsorption Heats in Flexible Nanoporous Metal Complexes with Layered Structure (Sch. Eng., Nagoya Univ.) ○KODERA, Yuta; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
1C1-47 Adsorptive Removal of Trace Amount of Dimethyl Sulfide Using Nanoporous Metal Complexes with Open Metal Sites (Grad. Sch. Eng., Nagoya Univ.; Panasonic Corp. Technology Innovation Division) ○YONEZU, Akira; MORITA, Masashi; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
1C1-48 Hydrogen Isotope Separation Property in Nanoporous Metal Complexes Based on the Quantum Effect (Grad. Sch. Eng., Nagoya Univ.) ○SHIMIZU, Sadayoshi; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
1C1-49 Fabrication of thin film using strongly luminescent copper (I) complex by spin coating method and vapor response (Sch. Sci., Hokkaido Univ.) ○KONDO, Sae; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako

Chair: INOMATA, Tomohiko (17 : 20~18 : 20)

- * 17:10-17:20: interval for laptop PC connection.(1C1-51, 1C1-53, 1C1-55, 1C1-56)
1C1-51[#] A noble-metal-free photocatalytic system for CO₂ reduction in fully aqueous media (Fac. Sci., Kyushu Univ.) ○ZHANG, Xian; CIBIAN, Mihaela; CALL, Arnau; SAKAI, Ken
1C1-53[#] Selectivity of CO₂ Reduction Product Tuned by On-surface CuAAC Modification on Metallic Cu (Grad. Sch. Sci., Hiroshima Univ.) TAKEUCHI, Ryuji; IGARASHI, Ryota; OKUME, Shoko
1C1-55[#] Structures and Properties of Assemblies Formed by Pyrazolato Derivative Bridged Cu dinuclear complex and TCNE/TCNQ (Fac. Sci., Fukuoka Univ.) ○UEMATSU, Mikoto; ISHIKAWA, Ryuta; KAWATA, Satoshi
1C1-56 Theoretical study of magnetic interaction in pyrazole-bridged dinuclear metal complexes (Sch. Eng. Sci., Osaka Univ.) ○FUJII, Takuya; ERA, Iori; TADA, Hayato; IKENAGA, Kazuki; KITAGAWA, Yasutaka; NAKANO, Masayoshi

Chair: OZAWA, Tomohiro (18 : 30~18 : 50)

- * 18:20-18:30: interval for laptop PC connection.(1C1-58, 1C1-59)
1C1-58[#] Characterization of one- and two-electron oxidized Cu(II)-salen complexes : Stabilization of the methylthiophenoxyl radical by the π-π stacking interaction (Grad. Sch. Natural Sci., Konan Univ.) ○TAKEYAMA, Tomoyuki; KIKUCHI, Misa; KOBAYASHI, Misato; OSHITA, Hiromi; IWATSUKI, Satoshi; SHIMAZAKI, Yuichi
1C1-59 Formation of Cu(II)-phenoxyl radical complex from Cu(II)-phenolate complex by air oxidation (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SUZUKI, Takashi; OSHITA, Hiromi; SHIMAZAKI, Yuichi

Sunday, March 17, AM

Ni, Pd

Chair: YAMAUCHI, Kosei (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-03, 2C1-05, 2C1-06)
2C1-01[#] Stable Ni(I) Complexes With New Electron-Rich, Sterically Hindered PNP Pincer Ligands (OIST) ○LAPOINTE, Sebastien; HASKIN, Eugene; KHUSNUTDINOVA, Julia
2C1-03[#] Stereochemistry of Au₂Ni^{II} trinuclear complex with mixed diphosphine, L-cysteinate, and D-penicillamine (Grad. Sch. Sci., Osaka Univ.) ○HANPRASIT, Sasikarn; YOSHINARI, Nobuto; KUWAMURA, Naoto; KONNO, Takumi

- 2C1-05** Characterization of N2P2-type Ni(II) complex having ligand with tautomerism as an electrochemical hydrogen evolution catalyst (Fac. Eng. Nagoya Inst. of Tech.) ○KATO, Takuma; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
2C1-06 Photocatalytic CO₂ Reduction Catalyzed by a S2N2-type Ni Complex Bearing Pyridine Pendants (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KAWANISHI, Takuya; TSUKAKOSHI, Yuto; HONG, Dachao; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

Chair: KOTANI, Hiroaki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-09, 2C1-10, 2C1-11, 2C1-12, 2C1-13)
2C1-08 Synthesis of Bis(benzimidazole)-coordinated Nickel dichlorido complexes and their network structures in the crystalline state (Fac. Sci. Tech., Hiroaki Univ.; Grad. Sch. Sci. Tech., Hiroaki Univ.) ○IWABUCHI, Yurika; OKAZAKI, Masaaki; OHTA, Shun
2C1-09 Catalytic Activities of Self-assembled Multinuclear Nickel and Zinc Complexes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) TAKAISHI, Kazuto; ○YAMADA, Yuya; NATH, Bikash Dev; KOSUGI, Hiroyasu; MAEDA, Chihiro; EMA, Tadashi
2C1-10 Crystalline-State Reaction of a Photochromic Rhodium Dithionite Complex with Ether Chains (Grad. Sch. Sci. Eng., Kindai Univ.) ○MIYATA, Seiya; KISHIMOTO, Takuya; SHIMIZU, Makiko; NAKAI, Hidetaka
2C1-11 Ni/Co-Catalyzed Reductive Homocoupling of Alkyl Tosylates (Grad. Sch. Eng., Hiroshima Univ.) ○TSUNEMITSU, Ryusuke; MICHYUKI, Takuya; OSAKA, Itaru; KOMEYAMA, Kimihiro
2C1-12 Ni/Co-Catalyzed Reductive Amidation of Alkyl Tosylates (Grad. Sch. Eng., Hiroshima Univ.) ○MICHYUKI, Takuya; OSAKA, Itaru; KOMEYAMA, Kimihiro
2C1-13 The effect of ionic liquid-substitution to nickel cyclam complex having CO₂ reduction ability. (Fac. Eng. Nagoya Inst. of Tech.) ○WADA, Haruki; NAGAI, Takuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: YOSHINARI, Nobuto (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2C1-15, 2C1-16, 2C1-17, 2C1-19)
2C1-15[#] Formation of High-valent Nickel Complex Using Ozone as an Oxidant and Its Oxidation Activity (Grad. Sch. Eng., Osaka Univ.) SHIMAOKA, Yuki; ○MORIMOTO, Yuma; ITOH, Shinobu
2C1-16 Acceleration Effect of Base on the Hydroxylation Reaction of Phenol Derivatives by a Bis(μ-oxido)dinickel(III) Complex (Grad. Sch. Eng., Osaka Univ.) ○AN, Jeyoung; MORIMOTO, Yuma; ITOH, Shinobu
2C1-17[#] A Family of Molecular Nickel(II) Dithiolate Catalysts Promoting Hydrogen Evolution from Water with Low Overpotentials via the Ligand-centered PCET Processes (Fac. Sci., Kyushu Univ.; WPI-I2CNER; CMS, Kyushu Univ.) ○YAMAUCHI, Kosei; AIMOTO, Yutaro; KOSHIBA, Keita; SAKAI, Ken
2C1-19 Elucidation of new spin transition mechanism by DFT calculation (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KYODEN, Yukiya; ISHIDA, Takayuki

Sunday, March 17, PM

Chair: NAKAI, Hidetaka (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2C1-28, 2C1-30, 2C1-31, 2C1-33)
2C1-28[#] Construction and Evaluation of Functional Models of Methane-producing Enzyme by Combining a Ni Corrinoid Complex with a Protein Matrix as a Reaction Scaffold (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○MIYAZAKI, Yuta; OOHORA, Koji; HAYASHI, Takashi
2C1-30 Oxygen evolution reaction activity of nonprecious metal electrocatalyst prepared by pyrolysis of π-expanded precursors containing nitrogen or sulfur atom. (Grad. Sch. Eng., Osaka Univ.) ○MATSUMOTO, Koki; ONODA, Akira; HAYASHI, Takashi
2C1-31[#] Multi-electron-Transfer-based Energy Storage Mechanism of Conductive Coordination Framework (GREEN, NIMS) ○SAKAUSHI, Ken; WADA, Keisuke; NISHIHARA, Hiroshi
2C1-33[#] Triptycene-derived Metal-Organic Frameworks: Unusual Topologies, Connectivities and Physical Properties (RCMS, Nagoya Univ.) ○ZHANG, Zhongyue; AWAGA, Kunio

Chair: SUGIMOTO, Hideki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2C1-35, 2C1-36, 2C1-37, 2C1-38, 2C1-39, 2C1-40)
2C1-35 Synthesis and Reduction of Tropone Trinuclear Pd Sandwich Complexes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YONEDA, Sota; KUDO, Eiji; YAMAMOTO, Koji; MURAHASHI, Tetsuro
2C1-36 Ligand Exchange Reaction of Multinuclear Pd Clusters Bearing Cycloheptatrienyl Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MIYAZAWA, Koshi; IWATA, Kosuke; YAMAMOTO, Koji; MURAHASHI, Tetsuro
2C1-37 Coordination behavior of extended acenes to palladium clusters (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUGAWA, Tsuyoshi; TAKASE,

Kohei; YAMAMOTO, Koji; MURAHASHI, Tetsuro

- 2C1-38[#]** Linear Mixed-Metal Pd_(4-n)Pt_n (*n* = 0-2) Tetranuclear Complexes Supported by Imino-bridged Tetrakisphosphines, *rac*-dpmppan (Fac. Sci., Nara Women's Univ.) ○TANAKA, Miho; NAKAMAE, Kanako; URA, Yasuyuki; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2C1-39[#]** Chiral Octapalladium Chains (Fac. Sci., Nara Women's Univ.) ○NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 2C1-40** Construction of a Pt^{II}Pd^{II} Metallorings from a Platinum(II) Metallo-ligand with D-Penicillamine (Grad. Sch. Sci., Osaka Univ.) ○NOMURA, Jinya; KUWAMURA, Naoto; KONNO, Takumi

Chair: NAKAJIMA, Takayuki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2C1-42, 2C1-44, 2C1-45, 2C1-46)
- 2C1-42[#]** Dynamic Rotational Motions of Vaulted Chiral *trans*-Bis(salicylaldiminato)Pd(II) Complexes Bearing Rigid or Flexible Carbon Chain Linkers (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKESHITA, Masahiro; NAOTA, Takeshi
- 2C1-44** Bridging Coordination of Thiophene and Selenophene to Pd-Pd moieties (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAWADA, Junya; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 2C1-45** Photocatalytic Hydrogen Production by Tetranuclear Cyclometalated Palladium Complex (Fac. Sci., Kanagawa Univ.) ○YAMANISHI, Katsunori; SUZUKI, Juran; YASUDA, Jun; YAMAZAKI, Yuta; OHDATE, Yuto; MIYAGAWA, Katsuya; KAWAMOTO, Tatsuya
- 2C1-46^{*}** Oxidative cracking of halogenated benzene derivatives by palladium (II) catalysts and transition-metal cocatalysts in water (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SHIMOYAMA, Yoshihiro; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko

Cu

Chair: NAKAMAE, Kanako (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2C1-49, 2C1-50, 2C1-51)
- 2C1-49** Synthesis of Interpenetrated Metal-Organic Framework on a Metal Ion-Doped Polymer Substrate Using an Interfacial Growth Approach (FIRST, Konan Univ.) ○HIRAO, Shoya; OHASHI, Takashi; TAKASHIMA, Yohei; AKAMATSU, Kensuke; TSURUOKA, Takaaki
- 2C1-50** Synthesis and functional evaluation of metal phthalocyanine with various peripheral substituents. (Grad. Sch. Sci., Eng., Saitama Univ.) ○MIZUNO, Toyoharu; ISHIMARU, Yoshihiro
- 2C1-51[#]** Porous Coordination Networks from Multi-interactive Ligand and Labile Cu clusters (Sch. Sci., Tokyo Tech.) ○OHTSU, Hiroyoshi; ODAGAWA, Nozomu; KAWANO, Masaki

Monday, March 18, AM

Pd, Pt

Chair: TASHIRO, Shouhei (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3C1-01, 3C1-02, 3C1-03, 3C1-04, 3C1-05)
- 3C1-01** Si-O Bond Activation Induced by Palladium Complexes (Grad. Sch. Sci., Osaka Pref. Univ.) ○KITAMURA, Koki; KAMEO, Hajime; MASTUZAKA, Hiroyuki
- 3C1-02[#]** A Series of Aminosugar-Conjugated Schiff Base Complexes for Anticancer Therapy (Grad. Sch. Sci., Osaka Univ.) ○ALBA, Lorenzo De Vera; HATANAKA, Tsubasa; NAKAI, Misaki; YANO, Shigenobu; YAJIMA, Tatsuo; NOMOTO, Akihiro; FUNAHASHI, Yasuhiro
- 3C1-03** Synthesis and Oxidative Addition Reaction of Cyclometalated Pt(II) Complex via Sequential Intramolecular C-H Activation of N-[3-(pyridinoxy) alkyl]iminomethylphenol (Grad. Sch. Eng. Sci., Osaka Univ.) ○ASAKURA, Haruka; ANZAI, Kento; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 3C1-04** Synthesis of Platinum Multinuclear Metallopeptides. (Lab. Chem. Life Sci., Tokyo Tech.) ○NISHIYAMA, Kazuki; YAMAMOTO, Kimihisa; IMAOKA, Takane
- 3C1-05[#]** Electrochemical and Kinetic Studies on H₂ Evolution from Water Catalyzed by Mononuclear Pt(bpy) Complexes (Fac. Sci., Kyushu Univ.; WPI-IZCNER; CMS, Kyushu Univ.) ○WAKIYAMA, Fumiaki; YAMAUCHI, Kosei; ROBERT, Marc; SAKAI, Ken

Chair: KAMEO, Hajime (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3C1-08, 3C1-10, 3C1-11, 3C1-12, 3C1-13)
- 3C1-08[#]** Electronic State of Heterometallic Ln-Pt Complexes (Grad. Sch. Sci., Tohoku Univ.) ○YOSHIDA, Takafumi; C. IZUOGU, David; ZHANG, Hai-tao; COSQUER, Goulven; YAMASHITA, Masahiro
- 3C1-10** One-dimensional multinuclearization of platinum and rhodium dinuclear complex having four ligand-substituted active sites (Fac. Eng., Gifu Univ.) ○UEMURA, Kazuhiro; SAITO, Atsuki
- 3C1-11[#]** Construction of unsymmetric macrocyclic heterodinuclear metal complexes by sequential introduction of metal ions (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIMIZU, Shun; TASHIRO, Shohei; SHIONOYA, Mitsuhiro

- 3C1-12** Synthesis and structures of heteropolynuclear metal complexes having NHC-based Chelating ligand (Grad. Sch. Eng., Nagasaki Univ.) ○MOON, Sangjoon; HORIUCHI, Shinnosuke; SAKUDA, Eri; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 3C1-13** Synthesis and Photochemical Properties of Dimeric Palladium and Platinum Complexes Based on the Twisted Structure of 3,3',-Disubstituted 2,2'-Bipyridine Ligands (Grad. Sch. Eng., Kyoto Univ.) ○SUEZAKI, Masahiro; SASAKURA, Kohei; TOKUNAGA, Daisuke; OKAMOTO, Kazuhiro; MIKI, Koji; OHE, Kouichi

Chair: KODERA, Masahito (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3C1-15, 3C1-16, 3C1-18, 3C1-19, 3C1-20)
- 3C1-15** Flipping Motion of alkyl-bridged *cis*-bis(iminopyrrolate) Platinum (II) Complexes and their derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHINO, Mitsuhiro; LE NGOC, Ha Thu; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 3C1-16[#]** Control of emission property of *trans*-Bis(salicylaldiminato)Pt(II) complex by liquid paraffin (Grad. Sch. Eng. Sci., Osaka Univ.) ○MAEDA, Takatoshi; NAOTA, Takeshi
- 3C1-18** Photophysical Property of Cationic Terpyridine Platinum(II) Complex with Unique Stimuli-responsive Behavior (Grad. Sch. Eng. Sci., Osaka Univ.) ○SAWAKI, Yurika; SUZUKI, Shuichi; NAOTA, Takeshi
- 3C1-19** Photophysical Properties of *trans*-Bis(salicylaldiminato)Platinum(II) Complexes with Solid-Liquid Phase Transition (Grad. Sch. Eng. Sci., Osaka Univ.) ○SUGIURA, Sho; SUZUKI, Shuichi; NAOTA, Takeshi
- 3C1-20** Single-crystal-to-single-crystal transformation of a highly luminescent one-dimensional Pt(II) *N*-heterocyclic carbene complex exhibiting vapochromic behavior (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SAITO, Daisuke; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako

Tuesday, March 19, AM

Pt

Chair: MASAOKA, Shigeyuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-03, 4C1-05, 4C1-06)
- 4C1-01[#]** Photophysical Properties of Luminescent Pt(II) Complexes Having a Substituted Dicarbanionic Ligand (Fac. Sci., Hokkaido Univ.) ○YOSHIDA, Masaki; WAKASUGI, Chuei; KOBAYASHI, Atsushi; KATO, Masako
- 4C1-03[#]** Inclusion of Metal Ions by Tiara-like Platinum-Thiolate Complexes (Lab. Chem. Life Sci., Tokyo Tech.) ○AKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 4C1-05[#]** Synthesis of the novel platinum square macrocyclic complex with electron acceptor ligand (Dep. Chem., Sch. Sci., Kyoto Univ.) ○AOKI, Kentaro; OTSUBO, Kazuya; KITAGAWA, Hiroshi
- 4C1-06** Thin-film formation and luminescence properties of a half-lantern type diplatinum(II) complex incorporating long alkyl chains (Sch. Sci., Univ. of Hyogo) ○YOSHIDA, Kota; OZAWA, Yoshiki; TAHARA, Keishiro; MORI, Taizo; ARIGA, Katsuhiko; ABE, Masaaki

Rh, Ir

Chair: KOBAYASHI, Atsushi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4C1-08, 4C1-10, 4C1-12, 4C1-13)
- 4C1-08[#]** Conjugation of a catalytically latent Cp*Rh(III) complex to construct a cell surface displayed biohybrid catalyst (Grad. Sch. Eng., Osaka Univ.; Inst. of Biotech, RWTH Aachen Univ.) ○KATO, Shunsuke; GRIMM, Alexander; ONODA, Akira; SCHWANEBERG, Ulrich; HAYASHI, Takashi
- 4C1-10[#]** Metal-ligand Cooperative Reaction of Alkenes on an Iridium Complex Bearing a Pincer-type Alkoxy Carbene Ligand (Sch. Sci., Tokyo Tech.) ○TAKAHASHI, Kohei; IWASAWA, Nobuharu
- 4C1-12** Photocatalytic CO₂ reduction by using hybrids consisting of an Ir-Ru supramolecular photocatalyst and semiconductor (Sch. Sci., Tokyo Tech.) ○NAKAMURA, Satoshi; MAEDA, Kazuhiko; ISHITANI, Osamu
- 4C1-13** Photoreduction Reaction of Carbon Dioxide Using Iridium(III) Complexes Having Arylborane Compounds (Grad. Sch. Eng., Nagasaki Univ.) ○HOMMURA, Yuki; YOSHIDA, Mitsuhiro; SAKUDA, Eri; HORIUCHI, Shinnosuke; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke

Chair: ONODA, Akira (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4C1-15, 4C1-17, 4C1-19, 4C1-20)
- 4C1-15[#]** Development of a new Ru(II)-Rh(III) supramolecular photocatalyst for CO₂ reduction (Sch. Sci., Tokyo Tech.) ○GHOSH, Debashis; TAKEDA, Hiroyuki; FABRY, David Christoph; TAMAKI, Yusuke; ISHITANI, Osamu
- 4C1-17[#]** The development of the framework catalyst for visible-light driven hydrogen evolution (Dept. of Life and Coordination Complex Molecular Science) ○CHINAPANG, Pondchanok; KONDO, Mio; MASAOKA, Shigeyuki
- 4C1-19[#]** Synthesis, Characterization and Photophysical Properties of Dinuclear

Room C2

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Bis(salicylaldiminato)di(2-phenylpyridinato)iridium(III) (Grad. Sch. Eng. Sci., Osaka Univ.) ○AHADITO, Bijak Riyandi; KAWAMORITA, Soichiro; NAOTA, Takeshi

4C1-20 Effect of the chemical structures in Ir(III) complex with tridentate 3 {5}-substituted pyrazole ligands on photophysical properties. (Grad. Sch. Sci. Eng., Chuo Univ.) ○SATO, Aika; ODAKA, Tomoko; HAGA, Masa-aki

Tuesday, March 19, PM

Chair: SAITO, Shohei (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(4C1-28, 4C1-30, 4C1-31, 4C1-32, 4C1-33)

4C1-28[#] Photooxidation of Iridium Complexes by 4-Bromobenzenediazonium salt (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKIZAWA, Shinya; KOKATSU, Shunta; IKUTA, Naoya; MURATA, Shigeru

4C1-30 A Robust Metal Accumulation to Dendritic Phenylazomethines via Cyclometalation Reaction (JST-ERATO; Lab. Chem. Life Sci., Tokyo Tech.) ○TAKADA, Kenji; MORITA, Mari; ALBRECHT, Ken; IMAOKA, Takane; YAMAMOTO, Kimihisa

4C1-31 Synthesis of a corannulene-based ligand with methyl-pyridyl pendant and its reaction with iridium. (Grad. Sch. Sci. & Tech., NAIST) ○KITA, Yuma; YAMADA, Mihoko; KAWAI, Tsuyoshi

4C1-32 Reactivity of Rh(III) Complexes of a Redox-active Tetradentate Planar Ligand with Organic Azides (Grad. Sch. Eng., Osaka Univ.) ○FUJITA, Daiki; SUGIMOTO, Hideki; MORIMOTO, Yuma; ITOH, Shinobu

4C1-33 C-H amination reaction catalyzed by Rh(III) complexes bearing o-phenylenediamine ligands. (Grad. Sch. Eng., Osaka Univ.) ○KAGA, Akira; FUJITA, Daiki; SUGIMOTO, Hideki; MORIMOTO, Yuma; ITOH, Shinobu

Chair: YAMADA, Mihoko (14:40~15:40)

* 14:30-14:40: interval for laptop PC connection.(4C1-35, 4C1-36, 4C1-37, 4C1-38, 4C1-39, 4C1-40)

4C1-35 Metal Complexes of Flapping Fluorophores Showing Stimuli Responses (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○KITAKADO, Hidetsugu; SAITO, Shohei; OSUKA, Atsuhiko

Zr, Cd, Ge

4C1-36 Gas Adsorption Properties of Photoresponsive Nanoporous Metal Complexes with Porphyrin Moiety (Panasonic Corp. Technology Innovation Division; Grad. Sch. Eng., Nagoya Univ.) ○SAKATA, Naoya; MORITA, Masashi; OHARA, Yuki; ARASE, Hidekazu; HORI, Akihiro; MATSUDA, Ryotaro

4C1-37 Electrochemical Synthesis of Porphyrinic Zirconium(IV) Metal-Organic Frameworks (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OKADA, Keito; TANAKA, Yoko; TANAKA, Daisuke

4C1-38[#] Construction and Structural Analysis of a [Cd₁₁L₆]²²⁺ Hexameric Supramolecular Cage Complex Composed of a Porphyrin Ligand having 5-Methyl-2,2' bipyridyl Units (Grad. Sch. Sci., The Univ. of Tokyo) ○IIZUKA, Fumiya; UBE, Hitoshi; SHIONOYA, Mitsuhiko

4C1-39[#] Photophysical properties of a multi-interactive ligand and syntheses of coordination networks by ligand aggregation (Sch. Sci., Tokyo Tech.) ○NAKANISHI, Keisuke; OHTSU, Hiroyoshi; FUKUHARA, Gaku; KAWANO, Masaki

4C1-40 Synthesis of Cyclic Metallogermynes and Metallostannylenes using an *N*-Heterocyclic Carbene-Phosphine Chelate Ligand (Grad. Sch. Sci., Tohoku Univ.) ○MACHIDA, Ryosuke; WATANABE, Takahito; TOBITA, Hiromi

Si, Li, K

Chair: FUNAHASHI, Yasuhiro (15:50~16:40)

* 15:40-15:50: interval for laptop PC connection.(4C1-42, 4C1-43, 4C1-45)

4C1-42 Axial ligand cleavage of Si-phthalocyanine: Computational chemistry on cytotoxicity mechanism of photoimmunotherapy agent (Fac. Pharm., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; Grad. Sch. Pharm., Hokkaido Univ.) ○HARADA, Mei; KOBAYASHI, Masato; ANDO, Kanta; TAKAKURA, Hideo; OGAWA, Mikako; TAKETSUGU, Tetsuya

4C1-43[#] Synthesis and Solid-state Luminescence Properties of β-Diketimate Alkali Metal Complexes (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Shunichiro; TANAKA, Kazuo; CHUJO, Yoshiki

4C1-45[#] Migration of metal ions in the supramolecular framework of Rh^{III}₄Zn^{II}₄ octanuclear complex anions (Grad. Sch. Sci., Osaka Univ.) ○YOSHINARI, Nobuto; SODKHOMKHUM, Rapheepraew; KONNO, Takumi

Coordination Chemistry, Organometallic Chemistry

Saturday, March 16, AM

Si, H, In

Chair: KUWAMURA, Naoto (9:00~9:40)

* 8:50-9:00: interval for laptop PC connection.(1C2-01, 1C2-02, 1C2-03, 1C2-04)

1C2-01 Synthesis of Amphiphilic Silicon phthalocyanine Derivatives Substituted with Linear-polyether (Grad. Sch. Sci. and Technol., Niigata Univ.) ○TAKANO, Ryo; SATOH, Keiichi

1C2-02 Distribution behavior and degree of association in aqueous phase of amphiphilic phthalocyanine derivatives substituted with linear polyether (Grad. Sch. Sci. and Technol., Niigata Univ.) ○KIRYU, Takuya; SATOH, Keiichi

1C2-03 Preparation of indium complexes and indium oxide thin films by precursor method (Fac. Sci. Technol., TUS) ○NAKAMURA, Kotoe; YAMAMOTO, Kazuki; GUNJI, Takahiro

Co

1C2-04[#] Electrochemical Immobilization of Co Complex on Electrode and Its Catalytic Properties (SOKENDAI; IMS) ○IWAMI, Hikaru; KONDO, Mio; MASAOKA, Shigeyuki

Saturday, March 16, PM

Chair: OTAKE, Ken-ichi (12:40~13:40)

* 12:30-12:40: interval for laptop PC connection.(1C2-23, 1C2-25, 1C2-27)

1C2-23[#] Crystallization Behavior of an Anionic Au^I₃Co^{III}₂ Pentanuclear Complex with Various Metal Ions and Phenanthroline (Grad. Sch. Sci., Osaka Univ.) ○SOMSRI, Supattra; KUWAMURA, Naoto; KOJIMA, Tatsuhiro; KONNO, Takumi

1C2-25[#] Construction of Ionic Crystals Composed of Cationic Au^I₄Co^{III}Ni^{II} Complex (Grad. Sch. Sci., Osaka Univ.) ○PRATIKHA, Ryce Sylviana; KOJIMA, Tatsuhiro; YOSHINARI, Nobuto; KONNO, Takumi

1C2-27[#] Structural changes induced by external stimuli in a nanochannel magnet and a layered magnet (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKABAYASHI, Koji; OHNO, Takuro; MIYAMOTO, Yasuto; CHORAZY, Szymon; OHKOSHI, Shin-ichi

Chair: WADA, Tohru (13:50~14:50)

* 13:40-13:50: interval for laptop PC connection.(1C2-30, 1C2-32, 1C2-34, 1C2-35)

1C2-30[#] Control of Single Molecule Magnet Behaviour in a Cobalt(II)/Poly(4-vinylpyridine) Semi-solid Solution (Grad. Sch. Sci., The Univ. of Tokyo) ○STEFANCZYK, Olaf; MAJCHER, Anna; DABCZYNSKI, Pawel; MARZEC, Mateusz; CEGLARSKA, Magdalena; RYSZ, Jakub; BERNASIK, Andrzej; OHKOSHI, Shin-ichi

1C2-32[#] Synthesis and catalysis property of metal-organic framework composites by close-system pyrolysis (WPI-iCeMS, Kyoto Univ.) ○HINOKIMOTO, Akira; HORIKE, Satoshi

1C2-34 Solid-State Isomerization and Chromism of Bis(arenethiolato)cobalt Complex Containing Bulky Acylamino Groups (Grad. Sch. Sci., Osaka Univ.) ○TOMITA, Yusuke; OKAMURA, Taka-aki; ONITSUKA, Kiyotaka

1C2-35 Structural diversity of valence tautomeric cobalt complexes with pyridine derivatives as bridging ligands (Fac. Sci., Fukuoka Univ.) ○MINE, Kahori; ISHIKAWA, Ryuta; KAWATA, Satoshi

Chair: OKAMURA, Takaaki (15:00~16:00)

* 14:50-15:00: interval for laptop PC connection.(1C2-37, 1C2-39, 1C2-40, 1C2-42)

1C2-37[#] Co-porphyrin based hybrid catalysts for CO₂ reduction in aqueous systems (Fac. Sci., Kyushu Univ.) ○TAN, Tze Hao; CALL, Arnau; SAKAI, Ken

1C2-39 Photochemical Hydrogen Evolution Reactions of Cobalt Porphyrin Complexes Bound to Tris(2,2'-bipyridine)ruthenium(II) Derivatives (Grad. Sch. Sci., Rikkyo Univ.) ○YAMADA, Masaki; NAKAZONO, Takashi; WADA, Tohru

1C2-40[#] Photochemical Water Oxidation Reactions of Cobalt-Hexaphyrin and -Porphyrin Complexes (Grad. Sch. Sci., Rikkyo Univ.) ○NAKAZONO, Takashi; NISHIMURA, Taiyo; YAMADA, Masaki; WADA, Tohru

1C2-42 Dioxxygen binding ability and alkane oxidation catalysis of cobalt complexes with imidazole-containing chelating borate ligands (Grad. Sch. Eng., Kanagawa Univ.) ○YAMAGUCHI, Yurina; HIKICHI, Shiro; NAKAZAWA, Jun; NISHIURA, Toshiki; KANBARA, Sana; MORITA,

Mao; NOZAWA, Haruka

Chair: MITSUHASHI, Ryoji (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1C2-44, 1C2-45, 1C2-46, 1C2-47, 1C2-48, 1C2-49)
- 1C2-44** Development of catalysts for CO₂ reduction using tetradentate ligand based on 2,2'-bipyridine (Sch. Sci., Tokyo Tech.) ○KOIZUMI, Hiroki; ISHITANI, Osamu
- 1C2-45** Synthesis of a 5-coordinate Co(III) complex with sulfur-containing ligand and its reactivity to small molecules (Fac. Eng. Nagoya Inst. of Tech.) ○HATTORI, Yuri; OZAWA, Tomohiro; INOMATA, Tomohiko; MASUDA, Hideki
- 1C2-46** Syntheses of diamide-type Co complexes directed to nitric oxide donor and their reactivity (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YAMAGUCHI, Ena; OZAWA, Tomohiro; INOMATA, Tomohiko; MASUDA, Hideki
- 1C2-47** Construction of a novel framework by the self-assembly by Co₄O₄ cubane complexes (LCCMS, IMS) ○FUJISAWA, Mayu; IWAMI, Hikaru; KACHI, Mami; KONDO, Mio; MASAOA, Shigeyuki
- 1C2-48[#]** Solvent Effect in a Neutral Cyanide-Bridged Charge Transfer Trinuclear Complex (IMCE, Kyushu Univ.) ○LI, Junqiu; SATO, Osamu
- 1C2-49** Preparations and Physical Properties of Crystalline Heterometallic Complex with Chiral Ligands (IMCE, Kyushu Univ.) ○SEJIMA, Hibiki; KANEGAWA, Shinji; NAKANISHI, Takumi; SATO, Osamu

Chair: YOSHINARI, Nobuto (17 : 20~18 : 20)

- * 17:10-17:20: interval for laptop PC connection.(1C2-51, 1C2-52, 1C2-53, 1C2-55, 1C2-56)
- 1C2-51** Spin transition behavior of dinuclear cobalt complexes coordinated by bis catechol ligands connected by conjugated system (Grad. Sch. Sci. Eng., Kindai Univ.) ○MIBU, Takuto; SUENAGA, Yusaku
- 1C2-52** Effect of substituent on a series of [Co(3,6-DTBQ)2(R-py)2] valence tautomeric complexes (Fac. Sci. Eng., Chuo Univ.) ○KONISHI, Ryunosuke; MATSUMOTO, Takeshi; KOSAKA, Wataru; MIYASAKA, Hitoshi; CHANG, Ho-chol
- 1C2-53^{#*}** Magnetic Properties Based on Structural Phase Transition in Alkylated Cobalt(II) Complexes (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○KOBAYASHI, Fumiya; NAKAMURA, Masaaki; HAYAMI, Shinya
- 1C2-55** Observation of slow magnetic relaxations in a low-spin mononuclear divalent cobalt complex (Grad. Sch. Sci., Osaka Univ.) ○AKAGI, Masaki; ISHIKAWA, Naoto; FUKUDA, Takamitsu; FUYUHIRO, Akira
- 1C2-56** Comparative study of magnetic relaxation phenomena of cobalt(II) complexes having isostructural tetrahedral coordination geometry with different electronic structures. (Grad. Sch. Sci., Osaka Univ.) ○TAKAHASHI, Mari; ISHIKAWA, Naoto; FUKUDA, Takamitsu; FUYUHIRO, Akira

Chair: KONDO, Mio (18 : 30~18 : 50)

- * 18:20-18:30: interval for laptop PC connection.(1C2-58)
- 1C2-58^{#*}** Hydrogen-Bonding Interactions in Tetracoordinated Cobalt(II) Single-Ion Magnets (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○MITSUHASHI, Ryoji; HOSOYA, Satoshi; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; SAKIYAMA, Hiroshi; MIKURIYA, Masahiro

Sunday, March 17, AM

Chair: SAKAMOTO, Ryota (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C2-01, 2C2-02, 2C2-03, 2C2-04, 2C2-05, 2C2-06)
- 2C2-01** Methane Hydroxylation Catalyzed by Nickel Complexes Supported by Diphenol Ligand (Grad. Sch. Eng., Osaka Univ.) ITOH, Mayu; MORIMOTO, Yuma; SUGIMOTO, Hideki; ○ITOH, Shinobu
- 2C2-02** Synthesis of Cobalt Complexes Supported by a Phenol-containing Ligand and Application to Catalytic Alkane Hydroxylation (Grad. Sch. Eng., Osaka Univ.) ○SHINKE, Tomoya; ITOH, Mayu; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu
- 2C2-03** Helicity Inversion Observed in Racemization of Cobalt(III) Metallocryptands Induced by Sequential Ligand Exchange (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○CHIBA, Shunsuke; SAKATA, Yoko; AKINE, Shigehisa
- 2C2-04** Immobilization of the Metal Complexes with Redox Active Ligand on Mesoporous Silica and Their Catalytic Activity in Alkane Hydroxylation. (Grad. Sch. Eng., Osaka Univ.; Fac. Eng., Kanagawa Univ.) ○KAMADA, Ryusuke; FUKATSU, Arisa; MORIMOTO, Yuma; SUGIMOTO, Hideki; HIKICHI, Shiro; ITOH, Shinobu
- 2C2-05** Mechanistic Investigation of Water Oxidation Catalyzed by a Monocobalt Polyoxometalate (Grad. Sch. Sci., Kyushu Univ.; I₂CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○TAIRA, Natsuki; YAMAUCHI, Kosei; SAKAI, Ken
- 2C2-06** Reactivity control of Porphycene cobalt complex whose ligand reduced form work as the active species (Grad. Sch. Eng., Kyushu Univ.) ○ZHOU, Zihan; KOIDE, Taro; XU, Ning; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio

Chair: SAKATA, Yoko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C2-08, 2C2-09, 2C2-10, 2C2-11, 2C2-12)
- 2C2-08** Photochemical CO₂ reduction using a novel pentanuclear cobalt complex (Sch. Physical Sci., SOKENDAI; LCCMS, IMS) ○AKAI, Takuya; LEE, Sze Koon; IZU, Hitoshi; OKAMURA, Masaya; KONDO, Mio; MASAOA, Shigeyuki
- 2C2-09** Electrochemical Hydrogen Evolution Reaction Catalyzed by Dinuclear Cobalt Complex with Doubly N-confused Hexaphyrin (Grad. Sch. Sci., Rikkyo Univ.) ○NISHIMURA, Taiyo; NAKAZONO, Takashi; WADA, Tohru
- 2C2-10[#]** Photochemical Oxygen Elimination and Addition Reactions of Dinuclear Cobalt μ -peroxo Complexes (Grad. Sch. Sci., Rikkyo Univ.) ○ARIMA, Hiroaki; NAKAZONO, Takashi; WADA, Tohru

Zn

- 2C2-11** Synthesis and Reactivity of Nanoporous Metal Complexes with Diazo Groups on the Pore Surfaces (Grad. Sch. Eng., Nagoya Univ.) ○NAKAJO, Toshinobu; KUSAKA, Sinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2C2-12^{#*}** Dipyrrin coordination copolymers: heterostructure observation and intrachain exciton migration (Grad. Sch. Sci., The Univ. of Tokyo) ○TOYODA, Ryojun; SAKAMOTO, Ryota; FUKUI, Naoya; MATSUOKA, Ryota; TSUCHIYA, Mizuh; NISHIHARA, Hiroshi

Chair: ONO, Toshikazu (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2C2-15, 2C2-16, 2C2-17, 2C2-18, 2C2-20)
- 2C2-15** Syntheses, Structure and Spectroscopic Properties of Dinuclear Zn (II) Complexes with N₂O₂-type Ligands Derived from Methylenedianiline and Its Related Compounds (Fac. Sci. Eng., Saga Univ.) ○OSHIKAWA, Yuuki; YAMADA, Yasunori
- 2C2-16** Synthesis of Nanoporous Metal Complexes Using Organic Ligands with an Bulky Ethylene Moiety (Sch. Eng., Nagoya Univ.) ○NAGAI, Kazuki; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2C2-17** Synthesis and Luminescent Properties of Coordination Polymers Incorporated Boron-complex Ligand (Grad. Sch. Sci., Kyushu Univ.) ○SATO, Yuko; MIURA, Hiroki; YOSHINO, Haruka; OHBA, Masaaki
- 2C2-18^{#*}** Synthesis of porous coordination polymers using carbon dioxide as a building block (WPI-iCeMS, Kyoto Univ.) ○KADOTA, Kentaro; HORIKE, Satoshi
- 2C2-20[#]** Structure Determination of Three-Dimensional Metal Complexes by Quantitative Analysis of Transmission Electron Microscopic Movie (Grad. Sch. Sci., The Univ. of Tokyo) ○XING, Junfei; HARANO, Koji; NAKAMURA, Eiichi

Sunday, March 17, PM

Chair: TANAKA, Daisuke (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2C2-28, 2C2-30, 2C2-31, 2C2-32, 2C2-33)
- 2C2-28^{#*}** Synthesis of proton conductive Zn(II) ionic liquid with coordination networks (AIST) ○OGAWA, Tomohiro; HORIKE, Satoshi
- 2C2-30** Oxygen Separation by Nanoporous Zinc Complexes Decorated with Fluoroalkyl Chains (Grad. Sch. Eng., Nagoya Univ.) ○ITO, Yu; KUSAKA, Shinpei; HIJIKATA, Yuh; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2C2-31** Synthesis and Sorption Properties of Nanoporous Metal Complexes Decorated with Haloalkoxy Chains (Grad. Sch. Eng., Nagoya Univ.) ○HARADA, Yuki; HIJIKATA, Yuh; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2C2-32** Syntheses and Air-separation Property of Pillared-layer Nanoporous Zinc Complexes (Sch. Eng., Nagoya Univ.) ○KAWAMURA, Aya; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 2C2-33** Syntheses and Adsorption Properties of Nanoporous Metal Complexes Exhibiting Photo-induced Oxygen Trapping (Grad. Sch. Eng., Nagoya Univ.) ○MASUDA, Ayaka; FUJIMURA, Masashi; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro

Chair: KOSHIYAMA, Tomomi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2C2-35, 2C2-36, 2C2-38, 2C2-40)
- 2C2-35** Dynamic nuclear polarization of metal-organic frameworks based on photoexcited triplet electrons (Grad. Sch. Eng., Kyushu Univ.) ○FUJIWARA, Saiya; HOSOYAMADA, Masanori; TATEISHI, Kenichiro; UESAKA, Tomohiro; IDETA, Keiko; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2C2-36^{#*}** Wrapping Flexible Metal-Organic Framework with Organic Polymers via Site-Specific Radical Polymerization from Its Crystal Surface (FIRST, Konan Univ.) ○TAKASHIMA, Yohei; FUKUDOME, Kenji; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 2C2-38^{*}** Controlling the Growth Process of MOF Crystals by an Interfacial Synthetic Approach Using a Metal Ion-Doped Polymer Substrate (FIRST,

Konan Univ.) ○OHASHI, Takashi; TSURUOKA, Takaaki; TAKASHIMA, Yohei; AKAMATSU, Kensuke

B

- 2C2-40** Synthesis and Photophysical Properties of Boron Diiminate Complexes Bearing Non-conjugated Substituents (Grad. Sch. Eng., Kyoto Univ.) ○HASHIZUME, Miyako; ITO, Shunichiro; TANAKA, Kazuo

Eu

Chair: HASEGAWA, Miki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2C2-42, 2C2-43, 2C2-44, 2C2-46, 2C2-47)

- 2C2-42[#]** Synthesis and photophysical properties of chiral Eu(III) coordination polymers with phase transition abilities (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Kyoto Univ.) ○TSURUI, Makoto; KITAGAWA, Yuichi; FUSHIMI, Koji; SEKI, Tomohiro; ITO, Hajime; GON, Masayuki; TANAKA, Kazuo; HASEGAWA, Yasuchika
- 2C2-43[#]** Synthesis of luminescent lanthanide complex with hydroxy phosphine oxide (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○MORIAKE, Ryoma; KITAGAWA, Yuichi; FUSHIMI, Koji; HASEGAWA, Yasuchika
- 2C2-44[#]** Europium(III)-Based Metallo-Supramolecular Polymers for Proton Conduction Application (Pol. Mater. Unit, NIMS) ○YEMINENI, Narayana; HIGUCHI, Masayoshi
- 2C2-46** Chiroptical Properties of Lanthanide Self-Assemblies Having Carbazole Rings (Fac. Sci., TUS) ○ITAMOTO, Hideki; YUASA, Junpei
- 2C2-47** Chiroptical properties of nona-coordinated chiral lanthanide complexes upon photoirradiation (Fac. Sci., TUS) ○OKAYASU, Yoshinori; YUASA, Junpei

Mo

Chair: YAMAUCHI, Miho (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2C2-49, 2C2-51, 2C2-52)

- 2C2-49[#]** Utilizations of Mo₃O₁₃ cluster ligands stabilized with 1,4,7-triazacyclononane complexes (Inst. Sci. Eng., Kanazawa Univ.) ○KAWAMOTO, Keisuke; SUGIARTO, Sugiarto; HAYASHI, Yoshihito
- 2C2-51[#]** Electrochemical thin film of cyanide-bridged Cu-Mo bimetal assembly showing ferroelectricity (Grad. Sch. Sci., The Univ. of Tokyo) ○IKEDA, Yusuke; NAKAGAWA, Kosuke; IMOTO, Kenta; NAKABAYASHI, Koji; TOKORO, Hiroko; OHKOSHI, Shin-ichi
- 2C2-52** Synthesis and properties of Fe-Mo dithiolene dinuclear complexes (Grad. Sch. Fac. Sci. Technol., TUS; Grad. Sch. Eng., Hiroshima Univ.) ○ABE, Takayuki; TSUKADA, Satoru; YAMAMOTO, Kazuki; GUNJI, Takahiro

Monday, March 18, AM

La, Y, Eu, Dy, Gd, Ce, Tb, Mo

Chair: SEKINE, Yoshihiro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3C2-01, 3C2-02, 3C2-03, 3C2-04, 3C2-05)

- 3C2-01[#]** Synthesis of Macrocyclic Cobalt/Lanthanide Multinuclear Complexes for Copolymerization of An Epoxide with Carbon Dioxide and Study on Its Activity (Grad. Sch. Eng., The Univ. of Tokyo) ○ASABA, Hiroki; IWASAKI, Takanori; NAGAE, Haruki; MASHIMA, Kazushi; NOZAKI, Kyoko
- 3C2-02[#]** Photophysical properties of organic-aggregates composed of perylene frameworks in lanthanide complex (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Kyoto Univ.) ○NAITO, Ayu; KITAGAWA, Yuichi; FUSHIMI, Koji; GON, Masayuki; TANAKA, Kazuo; HASEGAWA, Yasuchika
- 3C2-03** Microscopic chiral imaging of amino acids dispersed in agar using induced circularly polarized luminescence of Eu(III) complexes (Grad. Sch. Sci. Eng., Univ. of Toyama) ○KOIKE, Hikaru; NOZAKI, Koichi; IWAMURA, Munetaka
- 3C2-04** Theoretical study on intermolecular magnetic interaction of double-decker phthalocyaninato yttrium(III) complex. (Sch. Eng. Sci., Osaka Univ.) ○IKENAGA, Kazuki; KITAGAWA, Yasutaka; KATOH, Keiichi; YAMASHITA, Masahiro; NAKANO, Masayoshi
- 3C2-05[#]** Effect of structural rearrangement and transition metal substitution on the cyanido-bridged multifunctional SMM systems (Grad. Sch. Sci., The Univ. of Tokyo) ○WANG, Junhao; CHORAZY, Szymon; NAKABAYASHI, Koji; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi

Chair: KAJIWARA, Takashi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3C2-08, 3C2-09, 3C2-10, 3C2-11, 3C2-12, 3C2-13)

- 3C2-08[#]** Development of the functionalities of lanthanoid single-molecule magnets via molecular design (Grad. Sch. Sci., Tohoku Univ.) ○SATO, Tetsu; KATOH, Keiichi; BREEDLOVE, Brian; MASAHIRO, Yamashita
- 3C2-09[#]** Switchable magnetic and luminescent properties in three-dimensional

cyanido-bridged Dy-Co network by dehydration-hydration process (Grad. Sch. Sci., The Univ. of Tokyo) ○XIN, Yue; WANG, Junhao; CHORAZY, Szymon; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi

- 3C2-10** Exchange coupling in lanthanoid complexes with cycloaliphatic nitroxides (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) KAMIYA, Masaki; NAKAMURA, Takeshi; ○ISHIDA, Takayuki
- 3C2-11** Structures and Magnetic Properties of Lanthanide Complexes Involving Ground Triplet Bisnitroxide Radicals (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SEKINE, Hiroyasu; ISHIDA, Takayuki
- 3C2-12** Magneto-Structural Relationship for Lanthanide Complexes with s-Triazine-Based Triradical Compounds (Grad. Sch. Sci., TUS) ○NAOI, Yuya; KANETOMO, Takuya; ENOMOTO, Masaya
- 3C2-13** Synthesis and Ligand Substitution Reaction of Alkoxide-bridged Ce-Cu Multinuclear Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKEDA, Yuri; SHIRASE, Satoru; TSURUGI, Hayato; MASHIMA, Kazushi

Chair: YAMADA, Yasuyuki (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(3C2-15, 3C2-16, 3C2-17, 3C2-18)

- 3C2-15** Guest Coordination Sites inside Circular Lanthanide Helicates (Fac. Sci., TUS) ○MASSAKI, Tatsuya; YUASA, Junpei
- 3C2-16** Synthesis, Structure, and Luminescence Properties of an Oxygen-sensitive Terbium Complex Having Biphenyl Groups (Grad. Sch. Sci. Eng., Kindai Univ.) ○KITAMURA, Takuya; NAKAI, Hidetaka
- 3C2-17** Synthesis, Structure, and Luminescence Properties of an Oxygen Responsive Terbium Complex with a 1,4,7,10-Tetraazacyclododecane Skeleton and Biphenyl Groups (Grad. Sch. Sci. Eng., Kindai Univ.) ○YOKOYAMA, Naoki; NAKAI, Hidetaka
- 3C2-18[#]** Magnetic properties and optical properties of polar one-dimensional cyanido-bridged bimetal assemblies (Grad. Sch. Sci., The Univ. of Tokyo) ○KOMINE, Masaya; CHORAZY, Szymon; IMOTO, Kenta; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi

Tuesday, March 19, AM

Au

Chair: INOMATA, Tomohiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4C2-01, 4C2-03, 4C2-04, 4C2-05)

- 4C2-01[#]** Optical properties and ligand environments of diphosphine-ligated gold clusters (Fac. Env. Earth Sci., Hokkaido Univ.) ○SHICHIBU, Yukatsu; OGAWA, Yuri; SUGIUCHI, Mizuho; KONISHI, Katsuaki
- 4C2-03** Unique photochromic behaviors of a non-spherical Au₆ cluster (Grad. Sch. Env. Sci., Hokkaido Univ.) ○WATANABE, Hibiki; OKAYASU, Takeshi; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 4C2-04** Design and photoluminescence properties of subnano gold cluster / polyoxometalate hybrids (Grad. Sch. Env. Sci., Hokkaido Univ.) ○HU, Han; SUGIUCHI, Mizuho; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 4C2-05[#]** Unique Au-H interaction in diphosphine-protected gold clusters (Grad. Sch. Env. Sci., Hokkaido Univ.) ○IWASAKI, Mitsuhiro; WANG, Shipeng; SHICHIBU, Yukatsu; KONISHI, Katsuaki

Chair: SHINODA, Satoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4C2-08, 4C2-09, 4C2-10, 4C2-11, 4C2-12, 4C2-13)

- 4C2-08** Syntheses and properties of gold clusters protected by pyridine-bridged diphosphines (Grad. Sch. Env. Sci., Hokkaido Univ.) ○ITAKURA, Hiroshi; IWASAKI, Mitsuhiro; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 4C2-09** Molecular weight and photoluminescence property of soluble gold(I)-thiolate coordination polymers (Grad. Sch. Env. Sci., Hokkaido Univ.; RIKEN CEMS) ○MURAKAMI, Midori; MATSUMINE, Riku; ONO, Takeya; HORIMOTO, Noriko; ISHIDA, Yasuhiro; SHICHIBU, Yuukatsu; KONISHI, Katsuaki

Ag

- 4C2-10** Oxidation of silver-phthalocyanine and spectral properties of the oxidation product (GREEN, NIMS) ○ISAGO, Hiroaki; FUJITA, Harumi; SUGIMORI, Tamotsu
- 4C2-11** Syntheses and structures of two novel composite clusters where silver (I) ethynide groups attach to the tetra-manganese sandwich type polyoxometalate (Coll. Hum. Sci., Nihon Univ.) ○OHASHI, Kenji; OZEKI, Tomoji
- 4C2-12** Syntheses of Metal Complexes having a pyrazole-bridged Bis(carbene) Ligand (Grad. Sch. Eng., Nagasaki Univ.) ○TSURUTA, Yuki; NAGATA, Keisuke; ARIKAWA, Yasuhiro; HORIUCHI, Shinnosuke; SAKUDA, Eri; UMAKOSHI, Keisuke
- 4C2-13** Machine-Learning-Assisted Exploration of Synthesis Condition of Novel Metal-Organic Frameworks Composed of Silver and Thiolate Ligands (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○WAKIYA, Takuma; KAMAKURA, Yoshinobu; TANAKA, Daisuke

Al

Chair: CHANG, Hochol (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4C2-15, 4C2-16, 4C2-17, 4C2-18, 4C2-19)
- 4C2-15** Synthesis of a highly luminescent MOF by using new synthetic strategy with structural transformation reaction (FIRST, Konan Univ.)
○HORIKOSHI, Atsuto; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 4C2-16** Syntheses and Structural Transformation Properties of New Metal-Organic Frameworks with Hydroxy Groups (FIRST, Konan Univ.)
○KANAOKA, Yuta; TAKASHIMA, Yohei; HORIKOSHI, Atsuto; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 4C2-17** Characterization for formation process of metal-organic frameworks on metal ion-doped polymer substrates (FIRST, Konan Univ.) ○HATA, Manami; OHASHI, Takashi; TAKASHIMA, Yohei; AKAMATSU, Kensuke; TSURUOKA, Takaaki

Nb

- 4C2-18** Synthesis and evaluation of redox active coordination polymers with niobium(V) (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○NAKAO, Keisuke; YOSHIKAWA, Hirofumi; TANAKA, Daisuke
- 4C2-19[#]** Construction of chiral cyanide-bridged Mn-Nb bimetal assemblies showing second harmonic generation (Grad. Sch. Sci., The Univ. of Tokyo)
○OHNO, Takuro; IMOTO, Kenta; NAKABAYASHI, Kouji; OHKOSHI, Shin-ichi

Tuesday, March 19, PM

Sm, Tb, Eu, Ln, Pb

Chair: ISHIKAWA, Naoto (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4C2-28, 4C2-29, 4C2-30, 4C2-32, 4C2-33)
- 4C2-28** Syntheses and Spectroscopic Properties of Optically Active Zn(II)-Ln(III) Complexes with N₂O₄ Ligand Derived from 1,4-Diaminobutane (Fac. Sci. Eng., Saga Univ.) ○KORI, Daishin; DOTE, Yuma; YAMADA, Yasunori
- 4C2-29** Spectroscopic Properties Dependent on Substituents of Tb(III) Complexes Derived from Optically Active Branched N₄O₂ Ligands (Fac. Sci. Eng., Saga Univ.) ○DOTE, Yuma; KORI, Daishin; YAMADA, Yasunori
- 4C2-30^{**}** Metal complexes formed at the surface of aqueous solutions studied by sum frequency generation spectroscopy (NSEC, JAEA) ○KUSAKA, Ryoji; SCHNAARS, Kathleen; WATANABE, Masayuki
- 4C2-32** Effect of ammonium ions on structural and physical properties of a Tb(III)-crownether-modified-phthalocyanine double-decker complex (Grad. Sch. Sci., Nagoya Univ.) ○NISHIKAWA, Atsuki; KOBAYASHI, Chisa; YAMADA, Yasuyuki; TANAKA, Kentaro
- 4C2-33[#]** Dy^{III} and Tb^{III} based cyano-bridged two dimensional colorimetric and ratiometric thermometer (Grad. Sch. Sci., The Univ. of Tokyo)
○KUMAR, Kunal; CHORAZY, Szymon; NAKABAYASHI, Koji; SATO, Hiroyasu; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi

Chair: KONISHI, Katsuaki (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(4C2-35, 4C2-36, 4C2-37, 4C2-38)
- 4C2-35** Exploration of Novel Lanthanide Metal - Organic Frameworks utilizing Machine Learning Techniques (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KITAMURA, Yu; TANAKA, Daisuke
- 4C2-36** Nuclear Distance Dependent Nonlinear Effects on Helical Lanthanide Assemblies (Fac. Sci., TUS) ○SUKO, Natsumi; YUASA, Junpei
- 4C2-37** Lanthanide Assemblies of Nanosized Bridging β -Diketonate Ligands Through Ethyne Spacer (Fac. Sci., TUS) ○TSUYUKI, Takumi; YUASA, Junpei
- 4C2-38^{**}** The Synthesis and Evaluation of Optical and Electrical Properties of a Novel Lead-Sulfide Cluster Metal-Organic Frameworks (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KAMAKURA, Yoshinobu; HATAO, Shuya; YOSHIKAWA, Hirofumi; TANAKA, Daisuke

Room C3

Bldg. 3 324

Coordination Chemistry, Organometallic Chemistry

Saturday, March 16, PM

Fe

Chair: OHBA, Masaaki (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1C3-23, 1C3-24, 1C3-25, 1C3-26, 1C3-28)
- 1C3-23** Synthesis of iron-containing complex by liquid-phase laser ablation on pyrite (Grad. Sch. Eng., Osaka Univ.) ○MOTOHASHI, Yuka; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 1C3-24** Preparation and Educational Application of Magnetic Ionic liquids using Ionic Liquids (Fac. Edu., Kagawa Univ.) ○KUBO, Kousuke; TAKAGI, Yumiko
- 1C3-25[#]** Ion Conductivities of Fe-, Ru-based Metallo-Supramolecular Polymer with Naphthalenediimide Moiety (RCFM, NIMS) ○YOSHIDA, Takefumi; HIGUCHI, Masayoshi
- 1C3-26^{**}** Development of a coordination cage with an antiaromatic nanospace (Univ. of Cambridge) ○YAMASHINA, Masahiro; NITSCHKE, Jonathan
- 1C3-28** Structure and reactivity of diiron complexes with isoquinoline-based ligands derived from TPA (Fac. Sci., Nara Women's Univ.) ○YAMAMOTO, Chihiro; AONO, Yuri; NAKAYAMA, Hiromi; MATSUMOTO, Arimasa; MIKATA, Yuji

Chair: KOJIMA, Tatsuhiro (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1C3-30, 1C3-31, 1C3-32, 1C3-34)
- 1C3-30** Synthesis of CO-Releasing Iron Complex with a Proton Acceptable Ligand (Grad. Sch. Sci., Osaka City Univ.) ○TANAKA, Seiya; HIROTSU, Masakazu; NISHIOKA, Takanori; NAKAJIMA, Hiroshi
- 1C3-31** The Crystal Structure and Magnetic Property of Novel Dithiooxalato-Bridged Barium-Iron Coordination Polymer (Grad. Sch. Sci., TUS)
○MATSUMURA, Maiko; MINAKI, Akiho; KANETOMO, Takuya; OKAZAWA, Atsushi; ENOMOTO, Masaya
- 1C3-32^{**}** Multiple Spin State Changes of Magnetically-Bistable Alkane Clathrates (Grad. Sch. Sci., Kyushu Univ.; Grad. Sch. Eng., Nagoya Univ.; WPI-iCeMS, Kyoto Univ.) ○YOSHINO, Haruka; MISHIMA, Aki; OTAKE, Ken-ichi; KITAGAWA, Susumu; OHBA, Masaaki
- 1C3-34^{**}** Modulation of Magnetic Property of Porous Coordination Polymer through Control of Interactive Site Arrangement (Grad. Sch. Sci., Kyushu Univ.) ○TSUJI, Miho; OHTSUBO, Kazuya; FISCHER, Roland; KITAGAWA, Hiroshi; OHBA, Masaaki

Chair: NAKAJIMA, Hiroshi (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1C3-37, 1C3-38, 1C3-39, 1C3-40, 1C3-41, 1C3-42)
- 1C3-37** Magnetic Behavior of Interhalogen Compound Clathrates Based on Hofmann-type Porous Coordination Polymers (Fac. Sci., Kyushu Univ.) ○KETAYAMA, Masaaki; TSUJI, Miho; YOSHINO, Haruka; OHBA, Masaaki
- 1C3-38** Structures and Physical Properties of Heteroleptic Iron(III) Complex Derivatives (Grad. Sch. Sci., Kobe Univ.; CSREA, Kobe Univ.; MPRC, Kobe Univ.) ○MIYAWAKI, Atsuhiko; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi
- 1C3-39** Anion effect on spin crossover behaviors in charged Fe(II) complexes (Sch. Sci., Kobe Univ.; Grad. Sch. Sci., Kobe Univ.; CSREA, Kobe Univ.; MPRC, Kobe Univ.) ○AZUMA, Ryosuke; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi
- 1C3-40[#]** Cyanido-bridged Fe^{II}-Nb^{IV} bimetal assembly exhibiting site-selective two-step spin-crossover (Grad. Sch. Sci., The Univ. of Tokyo)
○KAWABATA, Shintaro; OHNO, Takuro; SZYMON, Chorazy; IMOTO, Kenta; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi
- 1C3-41[#]** Spin-crossover behavior and magnetic properties of cyanido-bridged ternary-metal systems (Grad. Sch. Sci., The Univ. of Tokyo) ○IMOTO, Kenta; TAKANO, Shinjiro; OHKOSHI, Shin-ichi
- 1C3-42[#]** Photo-reversible Switching of Faraday Effect on a Cyanido-bridged Fe-Nb Bimetallic Assembly (Grad. Sch. Sci., The Univ. of Tokyo)
○TABATA, Tomohiro; IMOTO, Kenta; NAKABAYASHI, Koji; OHKOSHI, Shin-ichi

Chair: NAKABAYASHI, Koji (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1C3-44, 1C3-45, 1C3-47, 1C3-49)
- 1C3-44** Iron(II) and 1,1,1-Tris(2-pyridyl)nonadecane Complex Showing Gradual Order-Disorder Structural Transition and Spin-Crossover (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KASHIRO, Atsushi;

- SOME, Kanako; KOBAYASHI, Yoshio; ISHIDA, Takayuki
1C3-45[#] Electrochromic two-dimensional coordination nanosheets (Pol. Mater. Unit, NIMS) ○BERA, Manas Kumar; HIGUCHI, Masayoshi
1C3-47[#] Metallo-Supramolecular Polymer for Electrochromic Energy Storage Materials (NIMS) ○MONDAL, Sanjoy; HIGUCHI, Masayoshi
1C3-49 Substituent Effect on the Spin Crossover Iron(II) Complexes Exhibiting Intramolecular Proton Transfer (IMCE, Kyushu Univ.) ○NAKANISHI, Takumi; SATO, Osamu

Chair: HIGUCHI, Masayoshi (17 : 20~18 : 20)

- * 17:10-17:20: interval for laptop PC connection.(1C3-51, 1C3-53, 1C3-54, 1C3-55, 1C3-56)
1C3-51[#] Thermally Induced Valence Tautomeric Transition in a Two-Dimensional Fe-Tetraoxolene Honeycomb Network (IMR, Tohoku Univ.) ○CHEN, Jian; SEKINE, Yoshihiro; TANIGUCHI, Kouji; MIYASAKA, Hitoshi
1C3-53 Study on reaction selectivity of aromatic hydroxylation by cytochrome P450 compound I (Grad. Sch. Human. Sci., Nara Women's Univ.) ○OKUIZUMI, Sonoko; HONDA, Yuki; FUJII, Hiroshi
1C3-54 Development of High-Performance Oxidation Catalysts Based on Conjugation of Metal Complexes to Proteins (Fac. Sci. Eng., Doshisha Univ.; Sch. Eng., Osaka Univ.; Nano-bioscience Research Center, Doshisha University) ○UENO, Kanako; KATO, Shunsuke; NOMURA, Akiko; KODERA, Masahito; ONODA, Akira; HAYASHI, Takashi; HITOMI, Yutaka
1C3-55 Theoretical study on effects of hydrogen bonds and protein-field on ionization potential around [2Fe-2S] ferredoxin active site (Grad. Sch. Eng. Sci., Osaka Univ.) ○ERA, Iori; TADA, Hayato; FUJII, Takuya; IKENAGA, Kazuki; KITAGAWA, Yasutaka; NAKANO, Masayoshi
1C3-56 Peroxodiiron(III) Complexes with 6-hpaR (R = 4-NO₂, 4-OMe-3,5-Me₂) ligands: Dioxigen Activation via O-O Bond Scission (Fac. Sci. Eng., Doshisha Univ.) ○TANAKA, Yuki; TUJI, Tomokazu; HITOMI, Yutaka; KODERA, Masahito

Sunday, March 17, AM

Chair: MORIMOTO, Yuma (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C3-01, 2C3-02, 2C3-03, 2C3-04, 2C3-05)
2C3-01 Development of Carboxylamidoiron(III) Complexes with a Restricted Reaction Space (Fac. Sci. Eng., Doshisha Univ.) ○ADACHI, Hiroki; KODERA, Masahito; HITOMI, Yutaka
2C3-02 Development of Carboxylamidoiron(III) Complexes for Alkane Oxidation (Fac. Sci. Eng., Doshisha Univ.) ○UEDA, Junpei; KODERA, Masahito; HITOMI, Yutaka
2C3-03 Substrate oxidation catalyzed by *N*-heterocyclic carbene-iron(II) complexes in water (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○FUJISAKI, Hiroto; SHIMOYAMA, Yoshihiro; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
2C3-04 C-H borylation of Arenes Catalyzed by PNN Iron Pincer Complex (Grad. Sch. Sci., Kitasato Univ.) ○KUSAKA, Haruki; KAMITANI, Masahiro; YUGE, Hidetaka
2C3-05[#] Reactivity of pentanuclear metal complexes in the electrochemical water oxidation reactions (IMS) ○VIJAYENDRAN, Praneeth; KONDO, Mio; KOON, Lee Sze; OKAMURA, Masaya; AKAI, Takuya; IZU, Hitoshi; MASAOKA, Shigeyuki
 Chair: ISHIZUKA, Tomoya (10 : 10~11 : 10)
 * 10:00-10:10: interval for laptop PC connection.(2C3-08, 2C3-10, 2C3-11, 2C3-12)
2C3-08[#] Stabilization and Alkane Hydroxylation by Oxoiron(IV) Prophyrin π -Cation Radical Complex in α, α, α -Trifluorotoluene (Grad. Sch. Eng., Osaka Univ.; Fac. Sci., Nara Women's Univ.) ○MORIMOTO, Yuma; SHIMAOKA, Yuki; ISHIMIZU, Yuri; FUJII, Hiroshi; ITOH, Shinobu
2C3-10 Effects of Reaction Media on the Hydroxylation Reaction of Alkanes Catalyzed by Iron(III) Complex (Grad. Sch. Eng., Osaka Univ.) ○FUKUI, Kosuke; MORIMOTO, Yuma; ITOH, Shinobu
2C3-11 Light-driven reduction of CO₂-to-CO by new earth-abundant first row transition metal complexes based on the diazapyridinophane ligand (Grad. Sch. Sci., Kyushu Univ.) ○SAKAGUCHI, Yuto; CALL, Arnau; CIBIAN, Mihaela; SAKAI, Ken
2C3-12[#] The use of 5,15-diazaporphyrin iron complexes as sp³ C-H oxidation catalysts (Grad. Sch. Eng., Nagoya Univ.) ○NISHIMURA, Tsubasa; WATANABE, Yoshihito; SHOJI, Osami; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro

Mn

Chair: ONODA, Akira (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2C3-15, 2C3-16, 2C3-17, 2C3-18)
2C3-15 Direct C-H fluorination of alkanes with manganese diazaporphyrin complexes (Grad. Sch. Eng., Nagoya Univ.) ○MORI, Shiho; NISHIMURA, Tsubasa; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
2C3-16 Synthesis and Properties of a Pentanuclear Manganese Complex

bearing Dissociative Protons (Sch. Physical Sci., SOKENDAI) ○ISHIHARA, Mei; OKAMURA, Masaya; KONDO, Mio; MASAOKA, Shigeyuki

- 2C3-17** Synthesis and properties of multinuclear complexes of first-row transition metals with branched ligands containing β -ketoiminate moieties (Grad. Sch. Sci., Osaka Univ.) ○ARAI, Takuya; KUSUMOTO, Masaaki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
2C3-18[#] CSJ Award for Outstanding Young Women Chemists Synthesis, Photophysical and Photochemical Properties of Arylborane Compounds and Their Metal Complexes (Grad. Sch. Eng., Nagasaki Univ.) ○SAKUDA, Eri

Sunday, March 17, PM

Chair: MASAOKA, Shigeyuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2C3-28, 2C3-29, 2C3-31, 2C3-32, 2C3-33)
2C3-28 Polarity conversion of polar 1D coordination polymers by water molecules. (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○YANAGISAWA, Junichi; OHTANI, Ryo; HAYAMI, Shinya
2C3-29[#] Photocatalytic CO₂ Reduction with Novel Supramolecular Mn(I) Complexes (Sch. Sci., Tokyo Tech.) ○FABRY, David Christoph; KOIZUMI, Hiroki; GHOSH, Debashis; YAMAZAKI, Yasuomi; TAKEDA, Hiroyuki; TAMAKI, Yusuke; ISHITANI, Osamu
2C3-31 Catalytic Hydroxylation of a C-H bond by Hemoprotein Reconstituted with Manganese Porphycene (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○KAGAWA, Yoshiyuki; TANAKA, Tomoya; TIBA, Natuno; OOHORA, Koji; HAYASHI, Takashi
2C3-32 Catalytic Hydroxylation of Inert Gaseous Alkanes by Myoglobin Mutants Reconstituted with Manganese Porphycene (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○TANAKA, Tomoya; NITTA, Kosuke; OOHORA, Koji; HAYASHI, Takashi

Re

- 2C3-33** Selective Synthesis of Rhenium(V) Complexes Using 8-Aminoquinoline Derivatives (Kobe City Coll. Technol.) ○ANTOKU, Nanami; MIYASHITA, Yoshitaro

Chair: HAYAMI, Shinya (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2C3-35, 2C3-37, 2C3-38, 2C3-40)
2C3-35[#] Guest Responsive Luminescent and Structural Changes of 1D-ladder-type Re(V)M(I) (M = Cu, Ag) Coordination Polymers (Grad. Sch. Sci., Kyushu Univ.) ○MIURA, Hiroki; OHBA, Masaaki
2C3-37 Guest Responsive Luminescent Properties of 2-D Re(V)M(II) (M = Zn, Cd) Coordination Polymers (Fac. Sci., Kyushu Univ.) ○SASAKI, Kenta; YAMATE, Hitomi; MIURA, Hiroki; YOSHINO, Haruka; OHBA, Masaaki
2C3-38[#] Photocatalytic CO₂ Reduction Using Novel Water-Soluble Metal Complexes as Redox-Photosensitizers (Fac. Sci. and Technol., Seikei Univ.) ○YAMAZAKI, Yasuomi; TSUBOMURA, Taro
2C3-39 Photochemical Multi-electron Accumulation and Photocatalytic Reaction Using a Hybrid Consisting of a Ring-shaped Re(I) Tetranuclear Complex and Polyoxometalate (Sch. Sci., Tokyo Tech.) ○TAKAHASHI, Maria; YAMAZAKI, Yasuomi; ASATANI, Tsuyoshi; MORIMOTO, Tatsuki; ISHITANI, Osamu
 Chair: TSUBOMURA, Taro (15 : 50~16 : 50)
 * 15:40-15:50: interval for laptop PC connection.(2C3-42, 2C3-43, 2C3-44, 2C3-45, 2C3-46, 2C3-47)
2C3-42[#] Electrochemical reduction of CO₂ by using rhenium(I) complexes possessing asymmetrical second coordination spheres characterized by a Tafel plot (Dept. of Material & Life Chem., Kanagawa Univ.) ○MATSUBARA, Yasuo; TANAKA, Takeki; NISHIWAKI, Akito; SHIMOJIMA, Miho; KOIDE, Yoshihiro

Ru

- 2C3-43** Preparations and Reactivities of Dinuclear Ruthenium Complexes Bridged by Interchalcogen Compounds (Grad. Sch. Eng., Nagasaki Univ.) ○TSUJITA, Yusuke; NAGAOKA, Takuya; TAKEMOTO, Nobuko; ARIKAWA, Yasuhiro; HORIUCHI, Shinnosuke; SAKUDA, Eri; UMAKOSHI, Keisuke
2C3-44 Synthesis and Characterization of a Cp-Ar Mixed-ligand Triruthenium Trihydrido Complex (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Hidenori; SHIMOGAWA, Ryuichi; TAKAO, Toshiro
2C3-45 Redox properties and reactivity of a ruthenium complex having hydrogen-bonding moieties in the second coordination sphere (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○KOGAWA, Taichi; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
2C3-46 Reaction of Acetonitrile Coordinated to Nitrido-bridged Dinuclear Ruthenium Complex with Water (Sci. Tec., Sophia Univ.) ○SHIMIZU, Marika; MISAHA, Tomoyo; NAGAO, Hirota
2C3-47[#] Studies on the Interactions of Ruthenium Complexes bearing Bis(2-

pyridylcarbonyl)aminato with Cations (Sci. Tec., Sophia Univ.)
 ○MISAWA, Tomoyo; SANO, Shunsuke; NAGAO, Hirotsuka

Chair: NAGAO, Hirotsuka (17:00~17:40)

- * 16:50-17:00: interval for laptop PC connection.(2C3-49, 2C3-51, 2C3-52)
2C3-49[#] The rational syntheses and control over redox behaviors of heterometallic pentanuclear complexes (LCCMS, IMS; Sch. Physical Sci., SOKENDAI; Fac. Sci., Fukuoka Univ.) ○IZU, Hitoshi; OKAMURA, Masaya; LEE, Sze Koon; TOMODA, Misa; AKAI, Takuya; VIJAYENDRAN, Praneeth; KAWATA, Satoshi; KONDO, Mio; MASAOKA, Shigeyuki
2C3-51 Self-assembly of a Ru/Pd heterometallic cage and its application to visible-light-driven reactions (Grad. Sch. Eng., The Univ. of Tokyo) ○SUNOHARA, Haruka; TAKEZAWA, Hiroki; FUJITA, Makoto
2C3-52[#] Structures and Photoluminescence Properties of Ruthenium-Terpyridyl Complexes with the Controlled Narrow Cavities (Grad. Sch. Sci., Osaka Univ.) ○ASANO, Kyohei; HARA, Kanae; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Monday, March 18, AM

Chair: SATAKE, Akiharu (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3C3-01, 3C3-02, 3C3-03, 3C3-04, 3C3-05, 3C3-06)
3C3-01 Electrochemical properties of Prussian-blue/Prussian-white-hetero-junction anode for water photooxidation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Sci., Hokkaido Univ.) ○OTSUKA, Hiroki; KOBAYASHI, Atsushi; YOSHIDA, Masaki; KATO, Masako
3C3-04 Cleavage of Nitrogen-Nitrogen Bond of Azo Group on Ruthenium Complex (Sci. Tec., Sophia Univ.) ○TOMIOKA, Nozomi; MISAWA, Tomoyo; NAGAO, Hirotsuka
3C3-03 Synthesis and Reactivity of a Carbonylamidoruthenium Complex (Fac. Sci. Eng., Doshisha Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○WAMURA, Satoshi; KODERA, Masahito; KOJIMA, Takahiko; HITOMI, Yutaka
3C3-04 Oxidation Reactivity of Ruthenium Tetroxide and Its Anion Adducts (Grad. Sch. Eng., Osaka Univ.) ○KAMIJO, Yuto; SUGIMOTO, Hideki; ITOH, Shinobu
3C3-05 HAT Reactions by Ru(IV)-Oxo Complexes: Evaluation of the Reactivity based on the Electron-Transfer Properties (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SHIMOMURA, Hinatsu; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko
3C3-06 Fabrication of monolayers of multi-stimuli responsive ruthenium aqua complexes (Dept. Appl. Chem., Nat. Def. Acad.) ○GOTO, Hiroki; HIRAHARA, Masanari; UMEMURA, Yasushi

Chair: KOTANI, Hiroaki (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3C3-08, 3C3-10, 3C3-12, 3C3-13)
3C3-08^{*} A Thermocell using PCET reaction entropy of Ru complexes (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; Fac. Sci., TUS) ○YAMADA, Teppei; KOBAYASHI, Takashi; TADOKORO, Makoto; KIMIZUKA, Nobuo
3C3-10[#] The Origin of the Force in a Photoelectrochemical Cell Consisting of Two TiO₂ Electrodes (Grad. Sch. Sci., Kyushu Univ.) ○MORITA, Kohei; SAKAI, Ken; OZAWA, Hironobu
3C3-12 Substituent effect on photochemical reduction of N-H Imidazolyl Quinone (Grad. Sch. Sci., TUS) ○MIURA, Motoshi; HAENO, Syun; KURAMOCHI, Yusuke; SATAKE, Akiharu
3C3-13 CO/Formate Selectivity in Photochemical CO₂ Reduction Catalyzed by Ruthenium Dinuclear-Peptide Complexes (Grad. Sch. Sci., Kitasato Univ.) ○ISHIDA, Hitoshi; OHTSUKA, Atsushi

Chair: KATO, Masako (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3C3-15, 3C3-16, 3C3-18)
3C3-15[#] Electrochemical water oxidation catalyzed by a dinuclear ruthenium complex having a carboxylate-anthridine ligand (Grad. Sch. Sci. and Technol., Niigata Univ.) ○SONOKAWA, Hiroki; TSUBONOUCHI, Yuta; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
3C3-16[#] Physicochemical properties and thermal isomerization of homoleptic ruthenium complexes with asymmetric ligands (Grad. Sch. Sci. and Technol., Niigata Univ.; Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama) ○TSUBONOUCHI, Yuta; SONOKAWA, Hiroki; SAITO, Kenji; YUI, Tatsuto; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro; NOZAKI, Koichi; YAGI, Masayuki
3C3-18[#] Young Scholar Lectures of CSJ Development of single-molecule devices based on metal acetylacetonate frameworks (IIR, Tokyo Tech.) ○TANAKA, Yuya

Asian International Symposium - Coordination Chemistry and Organometallic Chemistry -

Monday, March 18, PM

Chair: Xu, Qiang (13:00~14:00)

- 3C3-25[#] Keynote Lecture** Metal-organic Framework Derived Nanostructures for Electrochemical Energy Storage and Conversion (Peking Univ.) ○Zou, Ru-qiang (13:00~13:30)
3C3-28[#] Invited Lecture D-A Based Metal Complex AIEgens: Designing, Synthesis and Applications (Banaras Hindu Univ.) ○Pandey, Daya Shankar (13:30~14:00)

Chair: Matsuzaka, Hiroyuki (14:10~15:40)

- 3C3-32[#] Keynote Lecture** New Explorations on s-Block Metal Catalysts (Nankai Univ.) ○Guan, Bing-Tao (14:10~14:40)
3C3-35[#] Invited Lecture Ruthenium-Induced Alkyne Cycloisomerization: Construction of Functional Metalated Heterocycles and Revelation of Unconventional Reaction Pathways (City Univ. of Hong Kong) ○Wong, Chun-Yuen (14:40~15:00)
3C3-37[#] Invited Lecture Chiral Half-sandwich Rare-earth Catalysts for Asymmetric Transformations (RIKEN) ○Lou, Shao-Jie (15:00~15:20)
3C3-39[#] Invited Lecture Chemoselective Olefin/Ketone Hydroxylation Catalyzed by Fe or Co Complexes Bearing an Iminobipyridine Ligand (Osaka City Univ.) ○Kobayashi, Katsuaki (15:20~15:40)

Chair: Ohba, Masaaki (15:50~17:00)

- 3C3-42[#] Keynote Lecture** Flexible Crystals: Stretching the Boundaries of a Single Crystal (The Univ. of Queensland) ○Clegg, Jack Kay (15:50~16:20)
3C3-45[#] Invited Lecture Fluorescent Porous Materials for Chemical Sensing: From Molecular Design to Device Fabrication (National Univ. of Singapore) ○Zhao, Dan (16:20~16:40)
3C3-47[#] Invited Lecture Structural Dynamics of 1D and 2D Cyanide-bridged Coordination Polymers: Thermal Expansion and Melting (Kyushu Univ.) ○Ohtani, Ryo (16:40~17:00)

Coordination Chemistry, Organometallic Chemistry

Tuesday, March 19, AM

Sm, Tb, Eu, Ln, Pb

Chair: SHIMAKOSHI, Hisashi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(4C3-01, 4C3-02, 4C3-03, 4C3-04, 4C3-05, 4C3-06)
4C3-01 Development of hybrid photocatalyst for CO₂ reduction consisting of a newly designed binuclear complex and semiconductors (Sch. Sci., Tokyo Tech.) ○MURAKOSHI, Riho; TAMAKI, Yusuke; HAGA, Masa-aki; ISHITANI, Osamu
4C3-02 Electrochemical CO₂ reduction by binuclear metal complexes with an electron pool (Sch. Sci., Tokyo Tech.) ○YATSU, Taiki; KUMAGAI, Hiromu; ISHITANI, Osamu
4C3-03 Photochemical CO₂ reduction by a novel molecular photocathode loaded with a Ru(II)-complex polymer photocatalyst (Sch. Sci., Tokyo Tech.) ○KAMATA, Ryutarō; KUMAGAI, Hiromu; YAMAZAKI, Yasuomi; IWASE, Yukari; HIGASHI, Masanobu; ABE, Ryu; ISHITANI, Osamu
4C3-04 Synthesis of ruthenium complexes of NAD(H) model and their redox behavior (Coll. Life Sci., Ritsumeikan Univ.) TAMIYAKI, Hitoshi; ○YAMAMOTO, Ryutarō; KINOSHITA, Yusuke; KOIZUMI, Take-aki; TANAKA, Koji
4C3-05 Electrochemical properties of Layer-by-Layer films containing Ru polymer complex and graphene oxide (Grad. Sch. Sci. Eng., Chuo Univ.) ○KAKIHARA, Fumiya; HAGA, Masa-aki
4C3-06 Redox chemistry of Ru complexes having benzo[d]imidazole-4,7-dione (Grad. Sch. Sci. Eng., Chuo Univ.) ○WATANABE, Takumi; YANO, Genki; SATAKE, Akiharu; HAGA, Masaaki

Chair: TANAKA, Yuya (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(4C3-08, 4C3-10, 4C3-11, 4C3-12)
4C3-08[#] CO₂-Reduction Catalysis of Supramolecular Photocatalysts Immobilized on Solid Surface (Sch. Sci., Tokyo Tech.) ○SAITO, Daiki; ISHITANI, Osamu
4C3-10 Acid-base response of a proton confined in a multinuclear metal complex (Sch. Physical Sci., SOKENDAI; IMS) ○TOMODA, Misa; IZU, Hitoshi; KANAIKE, Mari; OKAMURA, Masaya; KONDO, Mio; MASAOKA, Shigeyuki
4C3-11 A study on the non-radiative relaxation process of tris-bipyridyl ruthenium (II) complexes using the photoracemization rate analysis (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○ASAHARA, Masahiro; SHINOZAKI, Kazuteru

4C3-12[#] Redox photosensitizing function of ruthenium(II) complexes with tridentate ligands (Sch. Sci., Tokyo Tech.) ○TAMAKI, Yusuke; ISHITANI, Osamu

Chair: NAKADA, Akinobu (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4C3-15, 4C3-17, 4C3-19)
4C3-15[#] Control of Magnetism for Electrochemical Responsive thin film constructed by charge-transferred assembly of paddlewheel-type diruthenium complex and TCNQ derivatives (IMR, Tohoku Univ.) ○SEKINE, Yoshihiro; MIYASAKA, Hitoshi
4C3-17[#] Control of long-range magnetic ordering via gas adsorption in a π -stacked pillared layer Framework (IMR, Tohoku Univ.) ○KOSAKA, Wataru; NAGANO, Kohei; MIYASAKA, Hitoshi
4C3-19 Development of redox-responsive organometallic molecular switch (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ○YASHIRO, Atsushi; PE, Ena; TANAKA, Yuya; AKITA, Munetaka

Tuesday, March 19, PM

Chair: OOHORA, Koji (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4C3-28, 4C3-29, 4C3-30, 4C3-31, 4C3-32, 4C3-33)
4C3-28 Synthesis and Metal-Metal Interactions of Dinuclear Ruthenium Molecular Wires with Five-Membered Heterocyclic Linkers. (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INABA, Yuto; KAWANO, Reo; TANAKA, Yuya; AKITA, Munetaka
4C3-29 Single-molecule conductance measurements of ruthenium dinuclear organometallic molecular wires with acene linkers (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Sci., Tokyo Tech.) ○KAWANO, Reo; TANAKA, Yuya; FUJII, Shintaro; KIGUCHI, Manabu; AKITA, Munetaka
4C3-30 Fixation of Hoveyda-Grubbs-type complexes onto biomolecules through ligand exchange(1):Effects of functional group in phenoxy part of Hoveyda-ligand (Grad. Sch. Mat. Sci., NAIST) ○GOSHIMA, Kenta; JATMIKA, Catur; HIROTA, Shun; MATSUO, Takashi
4C3-31[#] Fixation of Hoveyda-Grubbs-type complexes onto biomolecules through ligand exchange(2):Ligand Exchange on proteins and peptides (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Sci., Osaka Univ.) ○JATMIKA, Catur; GOSHIMA, Kenta; HIROTA, Shun; YAMAGUCHI, Hiroyasu; MATSUO, Takashi

Os

- 4C3-32** Reduction of CO₂ using an Os(II)-Ru(II) supramolecular photocatalyst (Sch. Sci., Tokyo Tech.) ○NAKAMURA, Tamami; TAMAKI, Yusuke; ISHITANI, Osamu
4C3-33 Alkane Hydroxylation with Hydrogen Peroxide Catalyzed by Osmium Tetroxide (Grad. Sch. Eng., Osaka Univ.) ○FUJIMOTO, Tomohiro; SUGIMOTO, Hideki; ITOH, Shinobu

Chair: MATSUO, Takashi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4C3-35, 4C3-36, 4C3-37, 4C3-38, 4C3-39)
4C3-35[#] Ligand Effects on the Oxidation Reactivity of Organometallic Osmium Complexes Bearing 2-Phenylpyridine (Grad. Sch. Eng., Osaka Univ.) AOKI, Kurumi; ○SUGIMOTO, Hideki; ITOH, Shinobu

Sn

- 4C3-36** Synthesis and Properties of Tin(II) Complexes Bearing Bulky Phenylendiamine Ligands (Grad. Sch. Eng., Osaka Univ.) ○YANO, Mayuka; KAGA, Akira; SUGIMOTO, Hideki; ITOH, Shinobu

Cr

- 4C3-37** Theoretical study on metal ion dependence of single-molecular electron conductivity of paddlewheel-type binuclear metal complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○TADA, Hayato; ERA, Iori; FUJII, Takuya; IKENAGA, Kazuki; KITAGAWA, Yasutaka; NAKANO, Masayoshi
4C3-38 Theoretical study on relationship between molecular structure, electronic state and electron conductivity of one-dimensional penta-nickel complex (Grad. Sch. Eng. Sci., Osaka Univ.) ○KITAGAWA, Yasutaka; TADA, Hayato; ERA, Iori; FUJII, Takuya; IKENAGA, Kazuki; NAKANO, Masayoshi
4C3-39[#] Acceleration and Efficiency Improvement for Nuclear Spin Conversion of Confined Molecular Hydrogen by Cyanide-Bridged Porous Coordination Polymers (Grad. Sch. Sci., Kyushu Univ.) ○OHTSUBO, Yuta; MISHIMA, Akio; HORI, Akihiro; OHBA, Masaaki

Chair: FURUKAWA, Shuhei (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4C3-42, 4C3-43, 4C3-44, 4C3-45, 4C3-46)
4C3-42[#] Thermal Dynamics of Nanoporous Metal Complexes with Large Pore Volume upon Water Adsorption (Sch. Eng., Nagoya Univ.) ○KOYAMA,

Mai; KANESHIMA, Keita; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro

V

- 4C3-43** The development of novel oxalato-bridged hetero metal complexes with ladder type one dimensional chain structure (Grad. Sch. Sci., TUS) ○WADA, Kohei; KANETOMO, Takuya; ENOMOTO, Masaya
4C3-44 Aerobic oxidation of supercritical methane using vanadyl complexes (Grad. Sch. Eng., Nagoya Univ.) ○YAMADA, Kaito; NAKANO, Ryo; YAMASHITA, Makoto
4C3-45 Attachment of vanadium complex onto silica surface with chiral functional group (Grad. Sch. Sci., Nagoya Univ.) ○HIBI, Keiko; MURATSUGU, Satoshi; TADA, Mizuki
4C3-46[#] The Reactivity of Divanadium Dinitrogen Complexes having a Triamidoamine Ligand (Fac. Eng., Aichi Inst. of Tech.) ○KOKUBO, Yoshiaki; KAJITA, Yuji

Room D1

Bldg. 3 331

Coordination Chemistry, Organometallic Chemistry

Saturday, March 16, AM

Zn, Cu, Au

Chair: NAKAJIMA, Takayuki (9 : 00 ~ 9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(1D1-01, 1D1-02, 1D1-03, 1D1-04)
1D1-01 Design, Synthesis and Photoreactivity of Nanoporous Metal Complexes with Double Bonds (Sch. Eng., Nagoya Univ.) ○ONO, Katsuya; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
1D1-02 Influence of humidity for the Layer-by-layer film growth of MOFs (Sch. Mat. Sci., JAIST) ○MATSUZAWA, Toshitaka; SUETSUGU, Kota; HARA, Mitsuo; NAGANO, Shusaku; NAGAO, Yuki
1D1-03 The Cu-catalyzed dearomatization / addition reaction of tertiary radical species at room temperature for the construction of contiguous quaternary carbons (Fac. Eng., Yamaguchi Univ.) ○TSUCHIYA, Naoki; NISHIKATA, Takashi
1D1-04 Cu-catalyzed three-component reaction of styrenes, alcohols, and 2-bromocarbonyls (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MURATA, Yumi; SHIMADA, Taisei; NISHIKATA, Takashi

Saturday, March 16, PM

Chair: KUWABARA, Junpei (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1D1-28, 1D1-30, 1D1-31, 1D1-32, 1D1-33)
1D1-28[#] Copper-Bipyridine-Catalyzed Stereospecific Intramolecular Suzuki-Miyaura Coupling of α -Aminoalkylboronic Esters (Grad. Sch. Eng., Kyoto Univ.) ○YOSHINAGA, Yukako; YAMAMOTO, Takeshi; SUGINOME, Michinori
1D1-30[#] Hydrogenation of CO₂ Catalyzed by Dinuclear Copper Hydride Complexes (Fac. Sci., Nara Women's Univ.) ○NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki
1D1-31 Reaction of Tetraaryldiborane(4) with Oxygen-Substituted Group 11 Complexes (Sch. Eng., Nagoya Univ.) ○SUZUKI, Akane; YAMASHITA, Makoto
1D1-32 Preparation of new transition metal complexes with Au-Si bond from gold(I)-thiolate complex (Lab. Chem. Life Sci., Tokyo Tech.) ○OKUMA, Kazuki; KANDA, Atsushi; TSUCHIDO, Yoshitaka; OSAKADA, Kohtaro

Ni, Pd, Pt

- 1D1-33** Development of Ni(0) Complexes Bearing *N*-phosphinomethyl-substituted NHC Ligand for Catalytic Acrylate Salt Synthesis from Ethylene and CO₂ (Sch. Sci., Tokyo Tech.) ○IWAI, Asaki; CHO, Kinryo; TAKAHASHI, Kohei; IWASAWA, Nobuharu
 Chair: YAMASHITA, Makoto (14 : 40~15 : 40)
 * 14:30-14:40: interval for laptop PC connection.(1D1-35, 1D1-36, 1D1-37, 1D1-38, 1D1-39, 1D1-40)
1D1-35 Synthesis and Reactivity of Nickel(I) Complexes Bearing Bulky NHC/Phosphine Mixed Ligands (Fac. Sci., Fukuoka Univ.) ○FUJII, Takahiro; INATOMI, Takahiro; KOGA, Yuji; MATSUBARA, Kouki
1D1-36[#] Rapid ¹¹C-Cyanation of (Hetero)arylstannanes Mediated by Combined Use of Pd and Cu Complexes (RIKEN BDR) ○ZHANG, Zhouen; NIWA, Takashi; WATANABE, Yasuyoshi; HOSOYA, Takamitsu
1D1-37 Synthesis of Air-Stable Pd(0) Catalyst Precursor Bearing Different

Kinds of Phosphine Ligands (TREMS, Univ. of Tsukuba) ○SATO, Ryota; KUWABARA, Junpei; KANBARA, Takaki

1D1-38[#] Design and Synthesis of Novel Palladium/Phosphine-Sulfonate Catalysts for Highly Stereospecific Polymerization of Propylene (Grad. Sch. Eng., The Univ. of Tokyo) ○TOMIZAWA, Izumi; KENGOYAMA, Chihiro; ITO, Shingo; NOZAKI, Kyoko

1D1-39 Development of Visible Light-driven Catalytic Carboxylation of Aryl/Alkenyl Triflates with CO₂ Using Pd/Photoredox Dual Catalysts (Sch. Sci., Tokyo Tech.) ○NAKAJIMA, Tomoya; HONDA, Jun; CANER, Joaquim; TORIUMI, Naoyuki; IWASAWA, Nobuharu

1D1-40 Palladium-catalyzed Aldehyde-selective Wacker-type Oxidation of Aliphatic Terminal Alkenes (Fac. Sci., Nara Women's Univ.) ○KOMORI, Saki; YAMAGUCHI, Yoshiko; KATAOKA, Yasutaka; URA, Yasuyuki

Chair: URA, Yasuyuki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1D1-42, 1D1-43, 1D1-44, 1D1-45, 1D1-46, 1D1-47)

1D1-42 Mechanistic study of Pd/Ag-mediated cross dehydrogenative coupling (CDC) and clarification of roles of Ag salts (TREMS, Univ. of Tsukuba) ○SHIMOYAMA, Yuto; KUWABARA, Junpei; KANBARA, Takaki

1D1-43 Synthesis and Structures of mono- and trinuclear Palladium Complexes Bearing Cyclononatetraenyl (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MORIDAIRA, Risako; YAMAMOTO, Koji; MURAHASHI, Tetsuro

1D1-44 Selective Synthesis of Group 10 Transition Metal Complexes and Clusters Consisting of Organogermanium Moieties (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Misaki; SUNADA, Yusuke

1D1-45 Synthesis and Structure of Mono- and Dinuclear Pd(I) Complexes Containing Bidentate Phosphine Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SASAKI, Kota; YAMAMOTO, Koji; MURAHASHI, Tetsuro

1D1-46 Construction of Heptanuclear Palladium Clusters Based on the Insertion of Metal Precursor into Si-Si Bonds of Cyclic Polysilanes (Grad. Sch. Eng., The Univ. of Tokyo; IIS, The Univ. of Tokyo) ○SHIMAMOTO, Kento; SUNADA, Yusuke

1D1-47[#] Preparation and Dynamic Behavior of Triplatinum Complex with Bridging Si and Ge Ligands (Lab. Chem. Life Sci., Tokyo Tech.) ○DING, Siming; TSUCHIDO, Yoshitaka; KOIZUMI, Take-aki; OSAKADA, Kohtarō

Chair: YAMAMOTO, Koji (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1D1-49, 1D1-51, 1D1-52, 1D1-53, 1D1-54)

1D1-49[#] Accelerated ligand exchange of metal acetylides by using light-induced structural change (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KANEKO, Shunichi; MASAI, Hiroshi; TAMAKI, Takashi; TERAŌ, Jun

Co

1D1-51 Hydrogenation of Haloalkanes by Metal-Ligand Cooperation of a PNNP-Co complex (Advanced Industrial Science And Technology) ○ISHIZAKA, Yusuke; NAKAJIMA, Yumiko

1D1-52 Synthesis and Reactivity of Cobalt-Aluminum Bimetallic Complexes (Grad. Sch. Eng., Kyoto Univ.) ○SHIMOURA, Fumiya; SEMBA, Kazuhiko; NAKAO, Yoshiaki

1D1-53[#] Syntheses and Reduction of Cobalt Complexes Bearing a Sterically Demanding Phenanthroline-based Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○UEDA, Yohei; TSURUGI, Hayato; MASHIMA, Kazushi

1D1-54 Regioselective hydrosilylation of aliphatic olefins catalyzed by cobalt complexes (Grad. Sch. Sci., Osaka City Univ.) ○TAGUCHI, Daisuke; KOBAYASHI, Katsuaki; MORIUCHI, Toshiyuki; NAKAZAWA, Hiroshi

Chair: SATOH, Tetsuya (18 : 10~18 : 40)

* 18:00-18:10: interval for laptop PC connection.(1D1-56)

1D1-56[#] Young Scholar Lectures of CSJ Catalytic Asymmetric C-H functionalization by high-valent group 9 metals (Grad. Sch. Pharm., Hokkaido Univ.) ○YOSHINO, Tatsuhiko

Sunday, March 17, AM

Rh, Ir

Chair: KUWATA, Shigeki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D1-01, 2D1-02, 2D1-03, 2D1-04, 2D1-05, 2D1-06)

2D1-01 Development of highly active chiral Rh catalyst for asymmetric 1,4-addition using interplay between calculations and experiments (Iwate Univ.) ○KORENAGA, Toshinobu; SASAKI, Ryo; MORIYA, Satsuki

2D1-02 Hydrosilylation of allyl chloride catalyzed by a Rh complex bearing a bidentate-phosphine ligand (IRC3, AIST) ○INOMATA, Koya; SATO, Kazuhiko; NAKAJIMA, Yumiko

2D1-03 Synthesis and Reactivity of Pyrrole-Based PNP Pincer-Rhodium Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○KAWAKAMI, Ryosuke; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

2D1-04 Synthesis and Reactivity of Rhodium and Iridium Hydride Complexes Having Pincer Type, Low Valent Group 13 Metalloligands (Sch. Sci., Tokyo

Tech.) ○HOSHINO, Mayuko; UEKI, Kanako; TAKAYA, Jun; IWASAWA, Nobuharu

2D1-05 Synthesis and Properties of Metallophosphine-ligated Iridium Hydride Complexes (Grad. Sch. Sci., Osaka Pref. Univ.) ○SAKAUE, Naoki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki

2D1-06 Stereospecific visible light-induced oxidative additions of π -coordinated alkenylsilanes (Fac. Sci., Nara Women's Univ.) ○ITAKURA, Ayaka; URA, Yasuyuki; KATAOKA, Yasutaka

Ir

Chair: NAKAJIMA, Yumiko (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2D1-08, 2D1-09, 2D1-10, 2D1-11, 2D1-12)

2D1-08 Synthesis and photocatalytic activity of dinuclear iridium hydride complexes having BINAP ligands. (Grad. Sch. Sci., TMU) ○SOFUE, Yuki; NOMURA, Kotohiro; INAGAKI, Akiko

2D1-09[#] Photocatalytic hydrogenation of carbon dioxide by trinuclear hydride complex containing light absorbing diphosphine ligand (Fac. Sci., TMU) SHITAYA, Shoji; NOMURA, Kotohiro; ○INAGAKI, Akiko

2D1-10 Carboxylative cyclization of unsaturated amines with iridium complexes bearing a proton-responsive site at the β -position to the metal (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUDA, Yuto; KAYAKI, Yoshihito; KUWATA, Shigeki

2D1-11 Synthesis and Reactivities of Half-sandwich-type Iridium Complexes Bearing Benzoquinone Dioxime Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.) TAKAMURA, Taishin; ○HARADA, Takuya; KUWATA, Shigeki

2D1-12[#] Site- and enantioselective C-H borylation of cyclic amines by cooperative iridium/aluminum catalysis (Grad. Sch. Eng., Kyoto Univ.) ○KURODA, Yusuke; YADAV, Ramu; PARK, Kyungho; SHIRAIISHI, Hiroshi; RONG-LIN, Zhong; SAKAKI, Shigeyoshi; NAKAO, Yoshiaki

Chair: KODERA, Masahito (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2D1-15, 2D1-16, 2D1-17, 2D1-18, 2D1-19, 2D1-20)

2D1-15 Synthesis, Structures, and Reactivity of Iridium Complexes Having Silyl-NHC Chelate Ligands (Sch. Sci., Tohoku Univ.) ○SAKURABA, Kanta; KOMURO, Takashi; TOBITA, Hiromi

2D1-16 Oxidation of an Alkyne by O₂ at Group 9 Metal Complexes with a Pyridylphenyl Ligand (Grad. Sch. Sci. Eng., Chuo Univ.) ○NAMBA, Takayuki; AKIYAMA, Seiji; KUWABARA, Takuya; KODAMA, Shintaro; ISHII, Youichi

2D1-17 Synthesis and catalytic application of P-Al-P pincer Ir complexes (Grad. Sch. Eng., Nagoya Univ.) ○MORISAKO, Shogo; WATANABE, Seiya; YAMASHITA, Makoto

2D1-18 Synthesis and Structure of Late-Metal Complexes Bearing a Tetra (NHC) Macrocyclic Ligand (Grad. Sch. Eng., Nagoya Univ.) ○KOMORI, Ayaka; ITO, Jun-ichi; YAMASHITA, Makoto

2D1-19 Synthesis, Structure, and Reactivity of a Silanthione-coordinated Iridium Complex with Two Phenyl Groups on the Silicon Atom (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○CHIBA, Yuya; OHTANI, Ryusuke; OHTA, Shun; OKAZAKI, Masaaki

2D1-20 Synthesis, Structures, and Properties of Cationic Half-sandwich-type Group 4 Transition-metal Hydrosilylamido Complexes (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○HOSHIBA, Yuki; OHTA, Shun; OKAZAKI, Masaaki

Sunday, March 17, PM

Ir, Pt

Chair: NAKAJIMA, Kazunari (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2D1-28, 2D1-29, 2D1-30, 2D1-31, 2D1-32, 2D1-33)

2D1-28 Electroreduction of Carbon Dioxide to Formate by Homogeneous Ir Catalysts in Water (RIEF, AIST) ○KANEKA, Ryoichi; ONISHI, Naoya; HIMEDA, Yuichiro

2D1-29[#] Effect of ligands and sacrificial reagents for CO₂ photoreduction using an iridium complex as a photocatalyst (Grad. Sch. Sci., Nagoya Univ.; Toyota Central R&D Labs., Inc.) ○KAMADA, Kenji; JUNG, Jieun; SEKIZAWA, Keita; SATO, Shunsuke; MORIKAWA, Takeshi; SAITO, Susumu

2D1-30 Mechanistic Studies on Formation of Dinuclear Complexes Triggered by Coordination of P-alkyne-P Tridentate Ligands to Rh(I) or Ir(I) Precursors (Grad. Sch. Eng., Kyoto Univ.) ○SASAKURA, Kohei; OKAMOTO, Kazuhiro; OHE, Kouichi

2D1-31 Synthesis of *N*-Tethered Iridium Complexes Having *N*-Sulfonyldiamine Linked to a Cp* Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YOSHIDA, Minoru; KUWATA, Shigeki; KAYAKI, Yoshihito

2D1-32 Synthesis of Carbene-bridged Dinuclear Iridium Complexes through Double CH Activation of Bisphenol Derivatives (Grad. Sch. Sci. Eng., Chuo Univ.) ○TORIUMI, Takuya; ISHIKAWA, Mikiya; KUWABARA, Takuya; KODAMA, Shintaro; ISHII, Youichi

2D1-33[#] Metal-Ligand Cooperative C-H Bond Formation and Cleavage by Cyclopentadienone Platinum Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○HIGASHI, Takuya; ANDO, Hideaki; KUSUMOTO, Shuhei; NOZAKI, Kyoko

Ru

Chair: TAKEMOTO, Shin (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2D1-35, 2D1-36, 2D1-37, 2D1-38, 2D1-39, 2D1-40)
- 2D1-35** Behavior of Bidentate Ligand in Bis(protic dihydropyridylidene) Ruthenium Complexes (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○KURASHIMA, Kenta; KAYAKI, Yoshihito; KUWATA, Shigeki
- 2D1-36** C-O Bond Cleavage of Unsaturated Alcohols by β -Protic Ruthenium Complexes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TASHIMA, Naoto; KUWATA, Shigeki
- 2D1-37** Integration of Ruthenium Complexes with a Non-chelating Diphosphine Ligand and Its Function (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○SUZUKI, Satoshi; TODA, Tatsuro; KUWATA, Shigeki
- 2D1-38** Ruthenium-catalyzed oxidative conversion of ammonia into dinitrogen (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Pharm. Sci., Toho Univ.)
○TODA, Hiroki; NAKAJIMA, Kazunari; SAKATA, Ken; NISHIBAYASHI, Yoshiaki
- 2D1-39** Studies on Reactive Intermediates of Ruthenium-Catalyzed Ammonia Oxidation Reaction (Grad. Sch. Eng., The Univ. of Tokyo; Fac. Pharm. Sci., Toho Univ.) ○TODA, Hiroki; NAKAJIMA, Kazunari; SAKATA, Ken; NISHIBAYASHI, Yoshiaki
- 2D1-40** Quantum Chemical Study on Ruthenium-Catalyzed Oxidation Reaction of Ammonia into Dinitrogen (Fac. Pharm. Sci., Toho Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○SAKATA, Ken; TODA, Hiroki; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Chair: HIRANO, Masafumi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2D1-42, 2D1-43, 2D1-44, 2D1-46, 2D1-47)
- 2D1-42** Selective Synthesis of Heterometallic Clusters Using Dianionic Diruthenium(II) Bis(imido) Complex as Template (Grad. Sch. Sci., Osaka Pref. Univ.) ○OYABU, Tomofumi; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 2D1-43** Catalytic disproportionation of formic acid to methanol with multi-nuclear ruthenium complexes (Grad. Sch. Sci., Osaka Pref. Univ.)
○FUJITA, Hiroaki; TAKEMOTO, Shin; MATSUZAKA, Hiroyuki
- 2D1-44**[#] Unusual Rearrangement of a Modified PNP Ligand based Ru Complexes (OIST) ○DEOLKA, Shubham; KHASKIN, Eugene
- 2D1-46** Investigation of substituent effect in ruthenium-catalyzed ammonia oxidation reaction (Grad. Sch. Eng., The Univ. of Tokyo) ○UEMA, Koyo; TODA, Hiroki; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 2D1-47** Investigation of the ligand effect on cross metathesis with tetrafluoroethylene by ruthenium catalyst (Grad. Sch. Eng., The Univ. of Tokyo)
○MORI, Kenta; AKIYAMA, Midori; TAKAHIRA, Yusuke; OTOZAWA, Nobuyuki; OKAZOE, Takashi; NOZAKI, Kyoko

Ru, Fe

Chair: KAYAKI, Yoshihito (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2D1-49, 2D1-50, 2D1-51, 2D1-52)
- 2D1-49**[#] Synthesis and Properties of Anionic Ruthenium Complexes with a Selenonitrosyl Ligand (Grad. Sch. Sci., TUS) ○FUNG, Chi-wai; FUKADA, Go; TSUCHIDA, Noriko; MUTOH, Yuichiro; SAITO, Shinichi
- 2D1-50** Synthesis and Chromic Behaviors of Ruthenium Disubstituted Vinylidene Complexes with Group 15/16 Element Substituents (Grad. Sch. Sci. Eng., Chuo Univ.) ○SAKAJIRI, Kosuke; AOKI, Yutaka; DEGUCHI, Kazuki; KUWABARA, Takuya; HOUJOU, Hirohiko; ISHII, Youichi
- 2D1-51** Catalytic Synthesis of Conjugated Trienes from Unsymmetrical Internal Alkynes and Conjugated Dienes: Electronic and Steric Effects of Substituents on the Regioselectivity (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KIYOTA, Sayori; HIRANO, Masafumi
- 2D1-52** Catalytic Activity of Iron Complex with Tetradentate Phosphorus Ligand for Polymerization of Hydrosilane (Grad. Sch. Sci., Osaka City Univ.) ○DONAKA, Yosuke; ITAZAKI, Masumi; MORIUCHI, Toshiyuki; NAKAZAWA, Hiroshi

Monday, March 18, AM

Fe

Chair: NISHIMOTO, Yoshihiro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D1-01, 3D1-02, 3D1-03, 3D1-04, 3D1-05, 3D1-06)
- 3D1-01** Synthesis and Reduction of Iron and Cobalt Complexes of 1,1'-Bis(arylamide)vanadocenes (Grad. Sch. Sci., Osaka Univ.; Sch. Sci., Tokyo Tech.) ○KUSUNOSE, Hinano; HATANAKA, Tsubasa; KAWAGUCHI, Hiroyuki; FUNAHASHI, Yasuhiro
- 3D1-02** Development of 3d late transition metal complexes by using the organogermanium anions (IIS, The Univ. of Tokyo) ○KOBAYASHI, Yoshinao; SUNADA, Yusuke
- 3D1-03** Cleavage of a Si-Cl bond of chlorosilanes by iron(0) complex bearing a tetradentate-PNNP ligand (Div. of Chem., Fac. Pure Appl. Sci., Univ. of

Tsukuba) ○TAKESHITA, Tomohiro; NAKAJIMA, Yumiko

- 3D1-04** Synthesis of a Cubans-Type [Mo₃S₄Fe] Cluster Supported by C₃Me₂SiEt₃ Ligands and its Application in the Catalytic Silylation of N₂ (Sch. Sci., Nagoya Univ.) ○MUNAKATA, Kenichiro; HARA, Ryouta; TADA, Mizuki; TAKAYAMA, Tsutomu; SAKAI, Yoichi; OHKI, Yasuhiro
- 3D1-05** Synthesis of Multi-Nuclear Fe Clusters from the Reaction of an Fe(II) amide complex with P'Bu₃ and HBpin (Sch. Sci., Nagoya Univ.) ○OISHI, Shunya; TADA, Mizuki; OHKI, Yasuhiro
- 3D1-06** Synthesis and Reactivity of Iron-Dinitrogen Complexes Bearing Anionic Benzene-Based PCP-Type Pincer Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ○KATO, Takeru; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

B

Chair: OOHASHI, Masato (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D1-08, 3D1-09, 3D1-10, 3D1-12)
- 3D1-08** Ni/Ir-cocatalyzed photoredox coupling utilizing a recyclable organo-boron compound (RIKEN BDR) ○SUMIDA, Yuto; SUMIDA, Tomoe; RIKITAKE, Midori; HASHIZUME, Daisuke; HOSOYA, Takamitsu
- 3D1-09**[#] Electronic and Steric Controls of Catalytic Activity of Cage-Shaped Borates by Various Aryl Groups Surrounding the Boron Center (Grad. Sch. Eng., Osaka Univ.) ○TANAKA, Daiki; KONISHI, Akihito; YASUDA, Makoto
- 3D1-10**[#] Synthesis and reactivity of borata-alkene derivative bearing a phosphine moiety (Univ. of Muenster) ○WATANABE, Kohei; UENO, Atsushi; DANILIU, Constant; GERALD, Kehr; GERHARD, Erker
- 3D1-12**[#] A novel rigid bidentate B/P ligand: Synthesis and Coordination Chemistry (Grad. Sch. Eng., The Univ. of Tokyo) ○SEIDEL, Falk William; NOZAKI, Kyoko

Al, Si

Chair: IWASAKI, Takanori (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3D1-15, 3D1-17, 3D1-18, 3D1-19, 3D1-20)
- 3D1-15**[#] Synthesis and Characterization of Pheox- and Pheox-Al Complexes and Its Application to the Lewis Acid Catalyzed Reactions (Grad. Sch. Eng., Osaka Univ.) ○NAKAO, Shuichi; NISHIMOTO, Yoshihiro; YASUDA, Makoto
- 3D1-17** Catalytic Asymmetric Cyanosilylation Reaction of Aldehydes by Self-assembly Al(III)-salen Complex (Grad. Sch. Eng., TUS) ○MASUNAGA, Kazumi; IMAHORI, Tatsushi
- 3D1-18** Formation of Polyanions of Ladder Oligosilanes and Related Compounds (Grad. Sch. Sci. Tech., Gunma Univ.) ○NOMURA, Ryunosuke; KYUSHIN, Soichiro
- 3D1-19** Synthesis, Structure, and Reactivity of Silyl- and Alkyl-substituted Disilene (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HIBI, Fuya; NABESHIMA, Tatsuya; ICHINOHE, Masaaki
- 3D1-20** Generation of Alkyl-substituted 1,2-Dilithiodisilane (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TOJO, Shoma; NABESHIMA, Tatsuya; ICHINOHE, Masaaki

Monday, March 18, PM

Si, Ge, Sn

Chair: ISHIDA, Shintaro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3D1-28, 3D1-29, 3D1-30, 3D1-31, 3D1-32, 3D1-33)
- 3D1-28** Synthesis of Disilene Dianion Using Extend Triptycyl Frameworks (Coll. Sci., Rikkyo Univ.) ○NISHINO, Ryohei; MINOURA, Mao
- 3D1-29** Synthesis of Heavy Phenoxide (ICR, Kyoto Univ.) FUJIMORI, Shiori; ○MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 3D1-30** Synthetic studies of 1-germaazulene (ICR, Kyoto Univ.)
○OSHIRO, Taku; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 3D1-31** Structure of Group 14 Allyl Metals and Mechanistic Study for Allylation of Aldehydes Using Allylgermanes (Graduate School of Engineering, Osaka University) MINAMI, Yohei; ○NISHIDA, Kento; KONISHI, Akihito; YASUDA, Makoto
- 3D1-32** Synthesis and Reactions of Methylene-substituted Germylene (ICR, Kyoto Univ.) ○YUKIMOTO, Mariko; TOKITOH, Norihiro
- 3D1-33** Synthesis and Reactivity of a Stannacycloheptatrienyldiene (Grad. Sch. Sci. Eng., Chuo Univ.) ○ITO, Shotaro; KUWABARA, Takuya; ISHII, Youichi

Sn, In, Li

Chair: MINOURA, Mao (14 : 40~15 : 20)

- * 14:30-14:40: interval for laptop PC connection.(3D1-35, 3D1-36, 3D1-37, 3D1-38)
- 3D1-35** Synthesis and Structure of Tetrastannacyclobutadiene (Grad. Sch. Sci. Eng., Kindai Univ.) ○NUMATA, Yasuyuki; SADAMORI, Kazuya;

HATANAKA, Miho; MATSUO, Tsukasa

- 3D1-36** Tin Alkoxide-catalyzed Annulation Between Mercaptoketones and Activated Alkenes (Grad. Sch. Eng., Osaka Univ.) ○SAKAMOTO, Yuki; SUZUKI, Itaru; SHIBATA, Ikuya
- 3D1-37** Indium Hydride-Catalyzed Reductive Coupling of Conjugated Dienes with Ketones via Hydroindation of Unsaturated Bonds (Grad. Sch. Eng., Osaka Univ.; Res. Cent. Environ. Preserv., Osaka Univ.) ○YAGI, Kensuke; SUZUKI, Itaru; SHIBATA, Ikuya
- 3D1-38** Development of Stimuli-Responsive Li-BINOLate Catalyst (Grad. Sch. Eng., TUS) ○NOJIRO, Yuta; OHASHI, Satoshi; IMAHORI, Tatsushi

Tuesday, March 19, AM

Si

Chair: NANJO, Masato (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4D1-01, 4D1-02, 4D1-03, 4D1-05)
- 4D1-01** Synthesis and properties of a novel dialkylsilylene (Grad. Sch. Sci., Tohoku Univ.) ○KOBAYASHI, Ryo; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 4D1-02** Synthesis of a Tetrasilabicyclo[1.1.0]butane Bearing Arylthio Substituents on the Bridgehead Silicons (Grad. Sch. Sci., Tohoku Univ.) ○NUKAZAWA, Takumi; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 4D1-03[#]** Functionalization of 1-Iodobicyclo[1.1.1]pentasilanes at the Bridgehead Position (Grad. Sch. Sci., Tohoku Univ.) ○YOKOUCHI, Yuki; IWAMOTO, Takeaki
- 4D1-05[#]** Precise Synthesis of Macrocyclic Polysiloxanes with Si-H Group (IRC3, AIST) ○KAWATSU, Takahiro; MATSUMOTO, Kazuhiko; CHOI, Jun-chul; SATO, Kazuhiko

Chair: SAKAMOTO, Kenkichi (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4D1-08, 4D1-10, 4D1-11, 4D1-12, 4D1-13)
- 4D1-08[#]** Coordination chemistry of iminophosphonamido silylene (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKAHASHI, Shintaro; NAKAYA, Kazuki; NAKATA, Norio; ISHII, Akihiko
- 4D1-10** Development of nickel-catalyzed cross coupling of chlorosilanes with organoaluminum reagents (IRC3, AIST) ○NAGANAWA, Yuki; GUO, Haiqing; SAKAMOTO, Kei; NAKAJIMA, Yumiko
- 4D1-11** Ruthenium-Catalyzed Hydrosilylation of 1,3-Dienes with Various Hydrosilanes in the Presence of Ruthenium Catalysts (Grad. Sch. Sci. Tech., Gunma Univ.) ○NOGUCHI, Seiya; KANNO, Ken-ichiro; KYUSHIN, Soichiro
- 4D1-12** Effects of a Phosphorus Atom on Electronic States of Silicon Clusters (Grad. Sch. Sci. Tech., Gunma Univ.) ○TSUMURAYA, Tomohiro; KYUSHIN, Soichiro
- 4D1-13** Synthesis and Property of Cationic Tris(iminophosphonamidesilylene)-Iridium Complex (Grad. Sch. Sci., Eng., Saitama Univ.) ○NAKAYA, Kazuki; TAKAHASHI, Shintaro; NAKATA, Norio; ISHII, Akihiko

Chair: NAKATA, Norio (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4D1-15, 4D1-16, 4D1-17, 4D1-18, 4D1-19, 4D1-20)
- 4D1-15** Synthesis and Properties of Novel Ionic Liquids with Siloxane Unit in the Sulfonate Ion (Grad. Sch. Eng., Tottori Univ.) ○OTA, Masakazu; ARITA, Chihiro; NANJO, Masato
- 4D1-16** Synthesis of novel halogen-free ionic liquids based on silicon-containing borate as a counter ion (Grad. Sch. Eng., Tottori Univ.) ○KASAHARA, Kenta; NAGASAKI, Kosuke; NANJO, Masato
- 4D1-17** Synthesis and Reactions of alkoxy-substituted hexahydrosilaphenylene (Fac. Sci., Shizuoka Univ.) ○FURUSAWA, Ayaka; TAKAGI, Haruka; OKA, Shohei; SUGINO, Takumi; SAKAMOTO, Kenkichi
- 4D1-18** The synthesis of functionalized oligosilanes using a (*tert*-butoxy)disilanyl]lithium (Grad. Sch. Sci., Eng., Hosei Univ.) ○MATSUO, Takuya; KAWACHI, Atsushi
- 4D1-19** Synthesis of *o*-(Silyl)(boryl)benzenes with Borafluorenyl Group (Grad. Sch. Sci., Eng., Hosei Univ.) ○SHIMIZU, Tomomi; KAWACHI, Atsushi
- 4D1-20** Reactions of 1,2-Dihaloditrenes Bearing the Rind Groups (Grad. Sch. Sci. Eng., Kindai Univ.) ○OHNO, Ryoma; KONAKA, Shigeaki; NUMATA, Yasuyuki; HAYAKAWA, Naoki; ROSAS-SANCHEZ, Alfredo; HASHIZUME, Daisuke; MATSUO, Tsukasa

Tuesday, March 19, PM

Fe, Mn, Mo

Chair: MURAOKA, Takako (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4D1-28, 4D1-29, 4D1-30, 4D1-32, 4D1-33)
- 4D1-28** Iron(II) triazolylidene complexes and catalytic hydrosilylation of aromatic aldehydes (Fac. Sci., Fukuoka Univ.) ○IKEDA, Hayao; KOGA, Yuji; MATSUBARA, Kouki
- 4D1-29** Construction and reactions of coordinatively unsaturated manganese

(II) and iron(II) silyl complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○ARATA, Shogo; SUNADA, Yusuke

- 4D1-30[#]** Photochemical Synthesis of a Molybdenum Germlyne Complex and Its Catalytic Activity for Hydrosilylation of Aldehydes and Ketones (Grad. Sch. Sci., Tohoku Univ.) ○DHUNGANA, Tara Prasad; HASHIMOTO, Hisako; TOBITA, Hiromi
- 4D1-32** Synthesis and Reactivity of Dinuclear Molybdenum Complexes Bridged by Ferrocene Skeleton (Grad. Sch. Eng., The Univ. of Tokyo) ○ITABASHI, Takayuki; ARASHIBA, Kazuya; EIZAWA, Aya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 4D1-33** Isomerization of the Reaction Products of a Hydrogen-Bridged Bis(silylene) Molybdenum Complex with Carbodiimides (Grad. Sch. Sci., Tohoku Univ.) ○YUTO, Kobayashi; HISAKO, Hashimoto; HIROMI, Tobita

Mo, W, Ti

Chair: TSURUGI, Hayato (14 : 40 ~ 15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4D1-35, 4D1-37, 4D1-38, 4D1-39, 4D1-40)
- 4D1-35[#]** Transition Metal-Catalyzed Ammonia Formation by Using Alcohols and Water as Proton Sources (Grad. Sch. Eng., The Univ. of Tokyo) ○ASHIDA, Yuya; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 4D1-37** Substituent Effect on Catalytic Reduction of Dinitrogen to Ammonia by Using Alcohols and Water as Proton Sources. (Grad. Sch. Eng., The Univ. of Tokyo) ○MIZUSHIMA, Takuro; EIZAWA, Aya; ASHIDA, Yuya; ARASHIBA, Kazuya; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 4D1-38** Synthesis and Structure of a {Mesityl(methyl)silane}tungsten Complex and its Reaction with PMe_3 (Grad. Sch. Sci. Tech., Gunma Univ.) ○ISHITA, Taichi; MURAOKA, Takako; UENO, Keiji
- 4D1-39** A steric effect of trimethylsilyl group toward the structures and the solution dynamics of bis(indolyl)-coordinated group IV transition metal diamido complexes (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○TAKAHASHI, Shiona; AKAZAWA, Yuta; MIYAMOTO, Ryo; OKAZAKI, Masaaki; OHTA, Shun
- 4D1-40** Synthesis, Structures, and Reactivity of a Bis(indolyl)-coordinated Titanium Dichlorido Complex (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○OHTA, Shun; MIURA, Narumi; MIYAMOTO, Ryo; OKAZAKI, Masaaki

Ti, Sc, Y, Ce

Chair: SUNADA, Yusuke (15 : 50 ~ 16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4D1-42, 4D1-44, 4D1-45, 4D1-46)
- 4D1-42[#]** Dinitrogen Activation by Titanium Complexes Bearing an (ONO)-Ligand (Sch. Sci., Tokyo Tech.) ○ISHIDA, Yutaka; HASEGAWA, Sui; KAWAGUCHI, Hiroyuki
- 4D1-44[#]** Synthesis of Allylated *N,N*-Dimethylanilines by Scandium-Catalyzed C-H Addition of 2-Methyl Anilines to Internal Alkynes (Organometallic Chem. Lab., RIKEN) ○ZHOU, Wei; MASAYOSHI, Nishiura; HOU, Zhaomin
- 4D1-45** Synthesis and structure of organoyttrium complexes with a biphenolate ligand: stereoregular polymerization of 2-vinylpyridine (Sch. Mater. & Chem. Tech., Tokyo Tech.; Grad. Sch. Bioagr. Sci., Nagoya Univ.) ○OISHI, Masataka; YOSHIMURA, Reiji; NOMURA, Nobuyoshi
- 4D1-46** Synthesis of cerium(III) complexes bearing diethylenetriamine ligands as catalysts for hydrosilylation of carbonyl compounds (Grad. Sch. Eng. Sci., Osaka Univ.) ○SHINOHARA, Koichi; TSURUGI, Hayato; MASHIMA, Kazushi

Room D2

Bldg. 3 332

Catalysts and Catalysis

Sunday, March 17, AM

Chair: MORI, Kohsuke (10 : 00 ~ 11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(2D2-07, 2D2-09, 2D2-11)
- 2D2-07[#]** Selective hydrogenation of carboxylic acid derivatives over TiO_2 -supported Re catalysts (Inst. for Cat., Hokkaido Univ.) ○TOYAO, Takashi; TING, Kah Wei; SHIMIZU, Ken-ichi
- 2D2-09^{*}** Efficient ammonia synthesis with Ru loaded on the mixture of CaH₂ and BaO (MSL, Tokyo Tech.) ○HATTORI, Masashi; ARAI, Tomohiro; TADA, Tomofumi; KITANO, Masaaki; HARA, Michikazu; HOSONO, Hideo
- 2D2-11[#]** Kinetic study on reaction mechanism of hydrogenolysis over Pt/WO₃/Al₂O₃ catalysts (Fac. Urban Envr. Sci., TMU; ESICB, Kyoto Univ.) ○AIHARA, Takeshi; MIURA, Hiroki; SHISHIDO, Tetsuya

Chair: KITANO, Masaaki (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(2D2-14, 2D2-15, 2D2-16, 2D2-17, 2D2-18)
- 2D2-14** Ammonia Synthesis from Nitrogen and Water using Hydrogen Membrane Electrochemical Cells (Fac. Eng., Fukuoka Univ.)
○IMAMURA, Kanako; KUBOTA, Jun
- 2D2-15** Reaction mechanism of selective CO₂ hydrogenation over supported Rh catalysts (Fac. Urban Envr. Sci., TMU; ESICB, Kyoto Univ.)
○SUZUKI, Junpei; MIURA, Hiroki; SHISHIDO, Tetsuya
- 2D2-16** Ammonia synthesis over ruthenium catalyst supported on cerium-containing mixed metal oxide (Multidisciplinary Eng. Course, NIT, Numazu College) ○MURAMATSU, Hisanori; INAZU, Koji
- 2D2-17** Theoretical study for O₂ supported C-H bond activation mechanism of 1-methyl-4-piperidone on Au cluster catalyst (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Inst. for Cat., Hokkaido Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○MIYAZAKI, Ray; JIN, Xiongjie; YOSHII, Daichi; YATABE, Takafumi; YAMAGUCHI, Kazuya; MIZUNO, Noritaka; HASEGAWA, Jun-ya
- 2D2-18*** CO₂ hydrogenation over isolated Pt atoms surrounded by Ni atoms in Ni-Pt alloy catalyst (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.)
○KIKKAWA, Soichi; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro

Sunday, March 17, PM

Chair: MOTOKURA, Ken (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(2D2-27, 2D2-28, 2D2-30, 2D2-31, 2D2-32)
- 2D2-27** ammonia decomposition and synthesis over Ba₂SiO₄ supported Ru catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKASHIMA, Ryu; OGASAWARA, Kiyu; KISHIDA, Kazuhisa; KITANO, Masaaki; HOSONO, Hideo
- 2D2-28*** Development of heterogeneous catalysts for the synthesis of formic acid as an energy carrier by the hydrogenation of carbon dioxide (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○MORI, Kousuke; SANO, Taiki; YAMASHITA, Hiromi
- 2D2-30** Development of the high efficient Ni catalyst for ammonia decomposition reaction using CaNH (Sch. Mater. & Chem. Tech., Tokyo Tech.)
○OGASAWARA, Kiyu; KISHIDA, Kazuhisa; KITANO, Masaaki; HOSONO, Hideo
- 2D2-31*** Theoretical study of hetero-junction effect in Au-Ni bimetal nanoparticle catalyst (Sch. Sci., Osaka Univ.) ○ATO, Yoshinori; HAYASHI, Akihide; KAWAKAMI, Takashi; YAMANAKA, Shusuke; ISHIDA, Tamao; TOKUNAGA, Makoto; OKUMURA, Mitsutaka
- 2D2-32** Catalytic mechanism of hydrogen production based on formic acid decomposition with platinum nano particles dispersed by polyvinylpyrrolidone (Fac. Sci., Osaka City Univ.; OCARINA) ○MINAMI, Yusuke; IKEYAMA, Shusaku; AMAO, Yutaka

Chair: TAMURA, Masazumi (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2D2-34, 2D2-35, 2D2-36, 2D2-37, 2D2-38, 2D2-39)
- 2D2-34** Formate-catalyzed reduction of carbon dioxide using silicon based agents (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAKAGAWA, Chihiro; PRAMUDITA, Ria Ayu; MANAKA, Yuichi; MOTOKURA, Ken
- 2D2-35*** Polystyrene-Supported Formate Catalyst for Transformative Reduction of Carbon Dioxide to Formic Acid with Silanes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○PRAMUDITA, Ria Ayu; NAKAGAWA, Chihiro; MANAKA, Yuichi; MOTOKURA, Ken
- 2D2-36** Oxidative dehydrogenation of n-butene with novel iron oxide-based catalyst (Grad. Sch. Sci. and Eng., Kansai Univ.) ○KIYOKAWA, Takayasu; FUKU, Kojiro; IKENAGA, Naoki
- 2D2-37** Semi-hydrogenation of alkyne over titanium(IV) oxide photocatalyst with palladium core-silver shell nanoparticle co-catalyst (Grad. Sch. Sci. Eng., Kindai Univ.) ○IMAI, Shota; KOJIMA, Yasumi; TANAKA, Atsuhiko; KOMINAMI, Hiroshi
- 2D2-38** Effect of support properties of Ni/TiO₂ catalyst for CO methanation (Kobe City Coll. Technol.) ○KUGAI, Junichiro; TAGO, Kyosuke
- 2D2-39** Photocatalytic ring-hydrogenation over TiO₂ photocatalyst having combined co-catalyst (Grad. Sch. Sci. Eng., Kindai Univ.) ○ARAKI, Sakae; NAKANISHI, Kousuke; TANAKA, Atsuhiko; KOMINAMI, Hiroshi

Chair: FUKU, Koujirou (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(2D2-41, 2D2-42, 2D2-43, 2D2-44, 2D2-45)
- 2D2-41** Development of metal-cation-modified Ir/MgO catalyst for selective hydrogenation of unsaturated ketones (Sch. Eng., Tohoku Univ.)
○HAYASHIGAMI, Nao; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keichi
- 2D2-42** Preparation of multi-layered hierarchical catalysts and analysis of their reactivity in catalytic cracking (Grad. Sch. Eng., Mie Univ.)
○ISHIHARA, Atsushi; MORI, Kazuya; HAYASHI, Fumiya; HASHIMOTO, Tadanori; NASU, Hiroyuki
- 2D2-43** Organic base catalyzed ammonium carbamate conversion into urea (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAGATSUKA, Yuki;

MOTOKURA, Ken; MANAKA, Yuichi

- 2D2-44*** Controlled intersystem crossing in iron porphycene substituted myoglobin for cyclopropanation reaction: a theoretical study (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ZHAO, Liming; NAKAYAMA, Akira; OOHORA, Koji; HAYASHI, Takashi; HASEGAWA, Jun-ya
- 2D2-45** Removal of dimethyltrisulfan by flow system with silica-supported Au nanoparticles (Fac. Sci., Kyushu Univ.; National Research Institute of Brewing) ○MURAYAMA, Haruno; KOMIYA, Shinsei; KIMURA, Moemi; YAMAMOTO, Eiji; ISOGAI, Atsuko; FUJII, Tsutomu; IIZUKA, Sachiko; TOKUNAGA, Makoto

Monday, March 18, AM

Chair: KUMAGAI, Hiromu (9 : 30 ~ 10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(3D2-04, 3D2-05, 3D2-06, 3D2-07, 3D2-08)
- 3D2-04** Improvement of CO₂ reduction activity of Ga₂O₃ photocatalyst by loading on Al₂O₃ support (Grad. Sch. Eng., Osaka City Univ.) ○ITO, Ryota; AKASTUKA, Masato; KAWAGUCHI, Yu; YAMAMOTO, Muneaki; TANABE, Tetsuo; YOSHIDA, Tomoko
- 3D2-05** The loading effects of silver nanoparticles co-catalysts on carbon dioxide reduction over Ga₂O₃ photocatalysts (Grad. Sch. Eng., Osaka City Univ.; Grad. Sch. Eng., Osaka City Univ.) ○YOSHIOKA, Kokoro; OZAWA, Akiyo; YAMAMOTO, Muneaki; TANEBE, Tetsuo; YOSHIDA, Tomoko
- 3D2-06*** Effect of Zn species in Ag-loaded Zn-modified ZnTa₂O₆ for Photocatalytic conversion of CO₂ by H₂O (Grad. Sch. Eng., Kyoto Univ.)
○WANG, Shuying; TERAMURA, Kentaro; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TANAKA, Tsunehiro
- 3D2-07** Highly Selective Production of Formic Acid via Photocatalytic Reduction of Carbon Dioxide Using Metal Sulfide Catalysts (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○MORISHITA, Masashige; TANAKA, Tsunehiro; TERAMURA, Kentaro; HOSOKAWA, Saburo; ASAKURA, Hiroyuki
- 3D2-08*** Photocatalytic reduction of carbon dioxide with water over cation-doped K₂Ti₆O₁₃ with Ag cocatalyst (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○LI, Shuting; ZHU, Xing; YAMAMOTO, Akira; YOSHIDA, Hisao

Chair: YOSHIDA, Tomoko (10 : 30~11 : 20)

- * 10:20-10:30: interval for laptop PC connection.(3D2-10, 3D2-11, 3D2-12, 3D2-13, 3D2-14)
- 3D2-10** Langmuir-Hinshelwood and Light-Intensity Dependence Analyses of Photocatalytic Oxidation Rates by Two-Dimensional-Ladder Kinetic Simulation (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○NOSAKA, Yoshio
- 3D2-11** Formation of pH-gradient at inside and outside the hollow TiO₂ spheres by photocatalytic reactions (RCSEC, Osaka Univ.) ○KIMURA, Kosuke; HARADA, Takashi; KAMIYA, Kazuhide; NAKANISHI, Shuji
- 3D2-12** High Photocatalytic Activation and Mass Production of TiO₂ Treated by Flow-type In-liquid Plasma Processing (Fac. Sci. Technol., TUS)
○SASAKI, Mao; TERASHIMA, Chiaki; SUZUKI, Norihiro; NAKATA, Kazuya; KATSUMATA, Keniti; MIZUKOSHI, Yoshiteru; HORIBE, Hiroshi; NISHIMURA, Yoshimi; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira
- 3D2-13** Development of photocatalytic coating technology aiming to preserve the aesthetic appearance of important cultural properties (Fac. Sci. Technol., TUS)
○KATO, Kazuki; ADACHI, Takahiro; TERASHIMA, Chiaki; SUZUKI, Norihiro; NAKATA, Kazuya; KATSUMATA, Kenichi; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira
- 3D2-14** One step synthesis of 1,1-diethoxyethane from ethanol by catalysis and photocatalysis of titanium(IV) oxide (RLHC, Kochi Univ.; RLHC, Kochi Univ.) ○YASUI, Mayu; ONDA, Ayumu; YANAGISAWA, Kazumichi; IMAMURA, Kazuya

Chair: HORIUCHI, Yuu (11 : 30~12 : 10)

- * 11:20-11:30: interval for laptop PC connection.(3D2-16, 3D2-17, 3D2-18, 3D2-19)
- 3D2-16** Superstructures with Oriented Nanospaces for Selective Photocatalysis (Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.) ○MURAKAMI, Yuta; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 3D2-17** Efficient H₂O₂ generation from water and oxygen using BiVO₄ (-Grad. Sch. Sci. and Eng., Kansai Univ.) ○IWAMURA, Kazushi; FUKU, Kojiro; SAYAMA, Kazuhiro; IKENAGA, Naoki
- 3D2-18** Enhanced water splitting over various elements-substituted Ba₂In₂O₅ photocatalysts prepared by a polymerized complex method (Grad. Sch. Sci., TUS)
○NAKAGAWA, Keita; IWASE, Akihiko; KATO, Hideki; KUDO, Akihiko
- 3D2-19** Decomposition of an aqueous ammonia solution under visible light irradiation using CdS photocatalyst (Grad. Sch. Sci., TUS)
○SUZUKI, Haruya; IWASE, Akihiko; KUDO, Akihiko

Monday, March 18, PM

Chair: HISATOMI, Takashi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3D2-35, 3D2-37, 3D2-39)

- 3D2-35**** Solar energy-mediated methane activation and conversion (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; NIMS) ○SONG, Hui; YE, Jinhua
- 3D2-37**** Visible-light mediated photocatalytic reductive functionalization of CO₂ using a Re complex and Pd nanoparticles (Grad. Sch. Sci., Nagoya Univ.) ○KALIYAMOORTHY, Selvam; SAWANT, Dinesh; MORI, Shogo; SAITO, Susumu
- 3D2-39*** Dual Photocatalytic Roles of Light: Charge Separation at the Band Gap and Heat via Localized Surface Plasmon Resonance to Photoconvert CO₂ into CO over Silver-Zirconium Oxide. (Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Eng., Chiba Univ.) ○HONGWEI, Zhang; TAKAOMI, Itoi; TAKEHISA, Konishi; YASUO, Izumi

Chair: MISEKI, Yugo (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3D2-42, 3D2-44, 3D2-46)
- 3D2-42*** Y₂Ti₂S₂O₅ Photocatalysts Active in Water Splitting Under Visible Light (X-Breed, Shinshu Univ.; Grad. Sch. Eng., The Univ. of Tokyo; Mitsubishi Chemical Corp.; ARPChem) ○HISATOMI, Takashi; WANG, Qian; AKIYAMA, Seiji; YAMADA, Taro; TAKATA, Tsuyoshi; DOMEN, Kazunari
- 3D2-44*** Development of Cu, Zn-based photocatalysts and XAFS analysis (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○YOSHIDA, Yusuke; KANEKO, Takuma; HIGASHI, Kotaro; URUGA, Tomoya; IWASAWA, Yasuhiro
- 3D2-46*** Demonstration of photocatalytic overall water splitting at an upper limit quantum yield (X-Breed, Shinshu Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TAKATA, Tsuyoshi; JIANG, Junzhe; SAKATA, Yoshihisa; DOMEN, Kazunari

Chair: TOMITA, Osamu (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3D2-49, 3D2-50, 3D2-51, 3D2-52)
- 3D2-49** Construction of Various Z-schematic Water Splitting Systems using SrTiO₃:Ru,Sb as an O₂-evolving Photocatalyst with Response to Wide Range of Visible Light (Fac. Sci., TUS) ○KAIYA, Kyohei; YOSHINO, Shunya; IWASE, Akihiko; KUDO, Akihiko
- 3D2-50** Z-schematic CO₂ reduction under visible light irradiation using water as an electron donor employing Ti-containing metal oxides as a reducing photocatalyst (Grad. Sch. Sci., TUS) ○KASHIMA, Sruto; IWASE, Akihiko; KUDO, Akihiko
- 3D2-51** The effects of the amount of adsorbed Fe(III) on photocatalytic activity of TiO₂ and WO₃. (RCPV, AIST; Fac. Sci. Technol., TUS) ○HOSHINA, Kazuhiro; SAYAMA, Kazuhiro; MISEKI, Yugo; GUNJI, Takahiro
- 3D2-52** Photosensitized Hydrogen Evolution from Water using MoSe₂/Fullerodendron Nanohybrids (Grad. Sch. Env. Life Sci., Okayama Univ.) ○OKABE, Shogo; TAJIMA, Tomoyuki; HIRAYAMA, Ryutaro; MIYAKE, Hideaki; TAKAGUCHI, Yutaka

Tuesday, March 19, AM

Chair: MISEKI, Yugo (9 : 30 ~ 10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(4D2-04, 4D2-05, 4D2-06, 4D2-07, 4D2-08)
- 4D2-04** Development of zinc telluride photoelectrode for construction of solar hydrogen generation system (Fac. Eng., The Univ. of Tokyo) ○HATAGAMI, Kentaro; KANEKO, Hiroyuki; HIGASHI, Tomohiro; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 4D2-05** Sunlight-Driven Oxygen Evolution using Ta₃N₅ Thin Film Transparent Photoelectrode (Fac. Eng., The Univ. of Tokyo) ○OTSUKA, Yuki; HIGASHI, Tomohiro; SASAKI, Yutaka; NISHIYAMA, Hiroshi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 4D2-06** Improved performance of CuInS₂ photocathodes fabricated on carbon microfiber felt by surface modification (Sch. Eng., Kyoto Univ.) ○KORI, Kenichiro; TOMITA, Osamu; HIGASHI, Masanobu; NAKADA, Akinobu; ABE, Ryu
- 4D2-07** Photoelectrochemical Water Splitting by Transparent Ta₃N₅ Photoelectrode Fabricated on GaN Substrate (Grad. Sch. Eng., The Univ. of Tokyo) ○HIGASHI, Tomohiro; NISHIYAMA, Hiroshi; SASAKI, Yutaka; OTSUKA, Yuki; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; YAMADA, Taro; DOMEN, Kazunari
- 4D2-08** Development of light energy conversion system using bismuth-based layered oxysulfide (Sch. Eng., Kyoto Univ.) ○WAKISAKA, Yusuke; HIGASHI, Masanobu; NAKADA, Akinobu; TOMITA, Osamu; ABE, Ryu

Chair: IMAMURA, Kazuya (10 : 30~11 : 10)

- * 10:20-10:30: interval for laptop PC connection.(4D2-10, 4D2-11, 4D2-12, 4D2-13)
- 4D2-10** Photocatalytic hydrogen peroxide production in two-phase systems utilizing hydrophobic MOFs (Sch. Eng., Osaka Univ.) ○KAWASE, Yudai; ISAKA, Yusuke; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
- 4D2-11** Solar-to-hydrogen peroxide conversion on resorcinol-formaldehyde resin photocatalysts prepared in acidic conditions (RCSEC, Osaka Univ.; Sch. Eng. Sci., Osaka Univ.) ○TAKII, Takahiro; SHIRAI, Yasuhiro; HIRAI,

Takayuki

- 4D2-12** Surface Plasmon Effect of Core-Shell Ag-TiO₂ for Photocatalytic CO₂ Reduction (IRC3, AIST) ○HONG, Dachao; LYU, Lian-ming; KON, Yoshihiro
- 4D2-13** Improvement of high voltage type solar cell using homogeneous TiO₂ and BiOCl layers and the dye addition (Grad. Sch. Sci., Chiba Univ.) ○URUSHIDATE, Kazuki; MATSUZAWA, Shigemitsu; LI, Jihu; KOJIMA, Takashi; IZUMI, Yasuo

Chair: TANAKA, Atsuhiko (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(4D2-15, 4D2-16, 4D2-17, 4D2-18, 4D2-19)
- 4D2-15** Photocatalytic oxidation of alcohol over porphyrin-modified TiO₂ photocatalysts (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○GOTO, Shinsuke; YAMAMOTO, Akira; YOSHIDA, Hisao
- 4D2-16** Dry reforming of methane at low temperature under visible light (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○TAKAMI, Daichi; ITO, Yoji; YAMAMOTO, Akira; YOSHIDA, Hisao
- 4D2-17*** Defects Engineering of Ru/MoS_{2-x} and Its Enhanced Photocatalytic/Electrocatalytic Hydrogen Evolution Activity (Grad. Sch. Eng., Osaka Univ.) ○ZHANG, Yuxiao; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
- 4D2-18** Visible-light-assisted aerobic photocatalytic oxidation of amines over porphyrin-modified TiO₂ photocatalysts (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○KONNO, Takato; YAMAMOTO, Akira; YOSHIDA, Hisao
- 4D2-19*** Visible-Light-Induced H₂ production from Ammonia Borane by Plasmonic Metal/Mo₂W_{1-x}O_{3-y} (Grad. Sch. Eng., Osaka Univ.) ○YIN, Haibo; KUWAHARA, Yasutaka; YAMASHITA, Hiromi

Tuesday, March 19, PM

Chair: NAKADA, Akinobu (13 : 20~14 : 00)

- * 13:10-13:20: interval for laptop PC connection.(4D2-27, 4D2-28, 4D2-29, 4D2-30)
- 4D2-27** The photocatalytic activity on titanium dioxide formed hole-electron trapping site by platinum ion doping under visible light irradiation (ISIR, Osaka Univ.) ○NISHIYAMA, Naoto; FUJITSUKA, Mamoru; MAJIMA, Tetsuro; YAMAZAKI, Suzuki
- 4D2-28** Doping of Nb⁵⁺ Species at the Au-TiO₂ Interface for Plasmonic Photocatalytic Enhancement (RCSEC, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○IMAI, Jun; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 4D2-29** Photocatalytic water reduction by multilayered Ru(II)-dye immobilized nanoparticles in the presence of iodide electron mediator (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YOSHIMURA, Nobutaka; KOBAYASHI, Atsushi; YOSHIDA, Masaki; KATO, Masako
- 4D2-30** Synthesis and Photocatalytic Properties of Semiconducting Composite Powder (KISTEC) ○AKIYAMA, Kensuke; NOJIMA, Sakiko; TAKAHASHI, Ryo; FUNAKUBO, Hiroshi; IRIE, Hiroshi

Chair: HIGASHI, Tomohiro (14 : 10~14 : 50)

- * 14:00-14:10: interval for laptop PC connection.(4D2-32, 4D2-33, 4D2-34, 4D2-35)
- 4D2-32*** Synthesis of visible-light-responsive Sillén-Aurivillius triple-layered perovskite oxyhalide and their photocatalytic activity (Grad. Sch. Eng., Kyoto Univ.) ○OZAKI, Daichi; NAKADA, Akinobu; HIGASHI, Masanobu; TOMITA, Osamu; ABE, Ryu
- 4D2-33** Visible-light-sensitized H₂ evolution over hybrids photocatalyst of Ru complexes and a layered niobate (Sch. Eng., Kyoto Univ.) ○KONDO, Tomoki; NAKADA, Akinobu; HIGASHI, Masanobu; TOMITA, Osamu; ABE, Ryu
- 4D2-34** Improved H₂ evolution over Bi-based oxyhalide photocatalysts under visible light by surface modification with reduced graphene oxide (Sch. Eng., Kyoto Univ.) ○MIYAI, Takeshi; HIGASHI, Masanobu; NAKADA, Akinobu; TOMITA, Osamu; ABE, Ryu
- 4D2-35** Cationic substitution of Sillén-layered bismuth oxyhalide for controlling structure and photocatalytic properties (Sch. Eng., Kyoto Univ.) ○TAKAHIRA, Hikaru; NAKADA, Akinobu; SUZUKI, Hajime; YABUUCHI, Masayoshi; HIGASHI, Masanobu; TOMITA, Osamu; SAEKI, Akinori; ABE, Ryu

Chair: HIGASHI, Masanobu (15 : 00~15 : 30)

- * 14:50-15:00: interval for laptop PC connection.(4D2-37, 4D2-38, 4D2-39)
- 4D2-37** Study on cocatalysts effective for enhancing the photocatalytic activity of Y₂Ti₂S₂O₅ (X-Breed, Shinshu Univ.; Grad. Sch. Eng., The Univ. of Tokyo; Mitsubishi Chemical Corp.; ARPChem) ○PARK, Yohan; POLLITTO, Valeria; WANG, Qian; YOSHIDA, Hiroaki; HISATOMI, Tsuyoshi; TAKATA, Tsuyoshi; DOMEN, Kazunari
- 4D2-38** Effects of synthesis conditions of BaTaO₃N photocatalysts and Na intercalation onto their water splitting activity (Grad. Sch. Eng., The Univ. of Tokyo) ○HASEGAWA, Shuta; HIGASHI, Tomohiro; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari
- 4D2-39** Synthesis of BaNbO₃N from perovskite-type precursor oxide and its photocatalytic water splitting activity (Grad. Sch. Eng., The Univ. of

Tokyo) ○ARAKI, Shota; HIGASHI, Tomohiro; HISATOMI, Takashi; KATAYAMA, Masao; MINEGISHI, Tsutomu; DOMEN, Kazunari

Room D3

Bldg. 3 333

Physical Chemistry -Properties- Saturday, March 16, AM

Liquids

Chair: YOSHIMURA, Yukihiro (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(1D3-01, 1D3-03, 1D3-04, 1D3-05)
- 1D3-01*** Density of the saturated vapor by molecular dynamics (Fac. Bio., Hosei Univ.) ○KATAOKA, Yosuke
- 1D3-03** A theoretical study for investigating hydration dynamics of osmolyte by means of *ab initio* effective fragment potential - molecular dynamics (EFP-MD) method (Fac. Sci., Ochanomizu Univ.) ○UCHINO, Yukina; KUROKI, Nahoko; MORI, Hirotochi
- 1D3-04** Concentration dependence of ¹H NMR intensity for aqueous electrolyte solution (Center for Environmental Management, Kobe Univ.; Grad. Sch. Eng., Kobe Univ.) ○MAKI, Hideshi; SOGAWA, Ren; MIZUHATA, Minoru
- 1D3-05** Physical properties and low-frequency spectra of ionic liquid/molecular liquid mixtures: Comparison between acetonitrile and methanol (Grad. Sch. Sci., Chiba Univ.) ○ANDO, Masatoshi; SHIROTA, Hideaki

Chair: SHIROTA, Hideaki (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(1D3-07, 1D3-08, 1D3-09, 1D3-10)
- 1D3-07** Dissolution/Cryopreservation/Recovery of Amyloid Aggregates using Ionic Liquids (Dept. Appl. Chem., Nat. Def. Acad.) ○TAKEKIYO, Takahiro; YAMADA, Natsuki; YOSHIMURA, Yukihiro
- 1D3-08[#]** Raman Spectroscopic Studies on the Imidazolium-based Ionic Liquid-Alcohol Mixtures (Dept. Appl. Chem., Nat. Def. Acad.) ○MORI, Takahiro; OHNO, Kengo; KANEKO, Kazuyoshi; TAKEKIYO, Takahiro; SHIMIZU, Akio; YOSHIMURA, Yukihiro
- 1D3-09** Effect of Cations on Liquid-Crystalline Properties Based on Viologen Compounds. (Grad. Sch. Sci., TUS) ○ARAI, Satoshi; NAKA, Yumiko
- 1D3-10[#]** Disclosing collective motion of a polymer above glass transition temperature by single molecule spectroscopy (Fac. Sci., Josai Univ.) ○ISHIKAWA, Mitsuru; TAKAHASHI, Taihei; HAYASHI, Yu-ichiro; UWADA, Takayuki

Optical properties • Others

Chair: NAKANO, Masayoshi (11 : 00~12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(1D3-13, 1D3-14, 1D3-15, 1D3-17, 1D3-18)
- 1D3-13** Droplet size dependence of fluorescence enhancement effect caused by excitation light resonance of a single levitated microdroplet (Grad. Sch. Sci., Osaka City Univ.) ○SANO, Motoya; YATSUHASHI, Tomoyuki; SAKOTA, Kenji
- 1D3-14** Evaluations of photoluminescence and polarization properties of the composites including two types of phosphors and helical polymer (Grad. Sch. Energy Sci., Kyoto Univ.) ○NAKAYA, Masahiro; HACHIYA, Kan; SAGAWA, Takashi
- 1D3-15[#]** Excited-State Relaxation Dynamics of a Porphyrin Array Modulated by Solvent Polarity (Grad. Sch. Eng., Kyoto Univ.) ○PARK, Jaehong
- 1D3-17** Optical Imaging of Surface Enhanced Raman Scattering from Molecules over Plasmonic Silver Nanostructures (Sch. Sci., Hokkaido Univ.) ○MIYAUCHI, Akira; OYAMADA, Nobuaki; OIKAWA, Shunpei; FUKUSHIMA, Tomohiro; MURAKOSHI, Kei
- 1D3-18** Optical properties of strong coupling state between organic dye molecules and lattice plasmon (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○HAYASHI, Takahiro; OIKAWA, Shunpei; MINAMIMOTO, Hiro; MURAKOSHI, Kei

Saturday, March 16, PM

Chair: MURAKOSHI, Kei (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(1D3-27, 1D3-28, 1D3-29, 1D3-31)
- 1D3-27** Theoretical Study on Intermolecular Packing Dependence of Singlet-Fission-Induced Nonlinear Optical Property for Pentacene Dimer (Sch. Eng. Sci., Osaka Univ.) ○TONAMI, Takayoshi; NAGAMI, Takanori; OKADA, Kenji; NAKANO, Masayoshi
- 1D3-28** Method Dependence of Singlet Fission Rate in Pentacene Dimer Model: Perturbation Theory Approach versus Quantum Master Equation

- Approach (Grad. Sch. Eng. Sci., Osaka Univ.) ○OKADA, Kenji; TONAMI, Takayoshi; NAGAMI, Takanori; NAKANO, Masayoshi
- 1D3-29*** Theoretical study on singlet fission dynamics of molecular aggregates: Geometric structure dependences and excitonic coupling effects (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKANO, Masayoshi; OKADA, Kenji; TONAMI, Takayoshi; NAGAMI, Takanori; KUBO, Takashi
- 1D3-31[#]** Theoretical study on the vibronic coupling in singlet fission of dimer models composed of terrylene derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGAMI, Takanori; ITO, Soichi; TONAMI, Takayoshi; OKADA, Kenji; NAKANO, Masayoshi

Chair: TEKI, Yoshio (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1D3-34, 1D3-35, 1D3-36, 1D3-37, 1D3-38, 1D3-39)
- 1D3-34** Third-order nonlinear optical properties of a singlet biradical NT (Grad. Sch. Sci., Chiba Univ.; IGPR, Chiba Univ.; Fac. Eng., Chiba Univ.; Grad. Sch. Eng., Chiba Univ.; Grad. Sch. Sci., Nagoya Univ.) ○SUZU, Rie; CHIBA, Kosuke; BANDO, Hiroyuki; SAKAMOTO, Kazuyuki; HOSHINO, Katsuyoshi; AWAGA, Kunio
- 1D3-35** Electrochromic Properties of Unsymmetrical Platinum Complexes Coordinated by Bipyridine and Dithiolenic Ligand Derivatives (Sch. Sci., Univ. of Hyogo) ○HORI, Aoi; KUBO, Kazuya; KIM, Yuna; MORITA, Asako; TOMOTA, Chihiro; KADOYA, Tomofumi; NORO, Shin-ichiro; TAMAOKI, Nobuyuki; NAKAMURA, Takayoshi; YAMADA, Jun-ichi
- 1D3-36** Evaluation of thermal conductivity for Li₂[(18) crown-6]₃[Ni(dmit)₂](H₂O)₄ exhibiting lithium ionic conductivity (Grad. Sch. Hiroshima Univ.) ○NISHIMURA, Takumi; ICHIHASHI, Katsuya; KONNO, Daisuke; INOUE, Katsuya; NISHIHARA, Sadafumi
- 1D3-37** Fluorescence spectral changes of dibenzoylmethane boron difluoride complexes in crystal formation process by the reprecipitation method. (Fac. Edu., Shinshu Univ.; Grad. Sch. Eng., Osaka Univ.) ○ITO, Fuyuki; NAGANAWA, Ryuji; SAIGUSA, Mai; TOHNAI, Norimitsu
- 1D3-38** Fluorescent Properties and Crystal Structural Changes of Basic Benzothiazole Derivatives Responsible for Various Acid Molecules (IMRAM, Tohoku Univ.) ○TAKAHASHI, Keigo; NAKANE, Yuta; TAKEDA, Takashi; HOSHINO, Norihisa; SAKAI, Ken-ichi; AKUTAGAWA, Tomoyuki
- 1D3-39** Analysis of racemization of powdered thalidomide enantiomers (Sch. Advanced Sci. Eng., Waseda Univ.) ○SHINOHARA, Kanako; NIIZUMA, Yuka; TANAKA, Kohei; OTOGAWA, Kohei; OGINO, Yoshiyuki; ADACHI, Fumiya; ASAH, Toru

Chair: NISHIHARA, Sadafumi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1D3-41, 1D3-43, 1D3-44, 1D3-45)
- 1D3-41[#]** Magnetic field effect on luminescent spectrum and lifetime of a organic radical doped into host crystals (Grad. Sch. Sci., The Univ. of Tokyo; IMR, Tohoku Univ.; Grad. Sch. Sci., Osaka City Univ.) ○KIMURA, Shun; KUSAMOTO, Tetsuro; KIMURA, Shojiro; KATO, Ken; TEKI, Yoshio; NISHIHARA, Hiroshi
- 1D3-43** Design, Synthesis, Photochemical and Physical Properties of Pentacene Derivative with Remarkable Photostability by Synergistic Effect of Radical- and TIPS-Substituents (Fac. Sci., Osaka City Univ.; Grad. Sch. Sci., Osaka City Univ.) ○MAEGUCHI, Keiji; KATO, Ken; SHIMIZU, Akihiko; KASHIMA, Genta; TEKI, Yoshio
- 1D3-44** Optically Detected ESR and Time-Resolved Emission Studies of Excited-State Dynamics of Luminescent Radical (Grad. Sch. Sci., Osaka City Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ○KATO, Ken; KIMURA, Shun; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi; TEKI, Yoshio
- 1D3-45*** Electronic structure and spin dynamics of metal-free dual singlet-triplet organic light-emitting diode emitters (Grad. Sch. Sci., Osaka City Univ.) ○MATSUOKA, Hideto; MATSUI, Hiroki; SCHIEMANN, Olav

Sunday, March 17, PM

Cluster

Chair: IMAOKA, Takane (13 : 20~13 : 40)

- * 13:10-13:20: interval for laptop PC connection.(2D3-27, 2D3-28)
- 2D3-27** Structural Control of Phosphine-Protected Metal Clusters by Counter Anions (Fac. Sci., TMU) ○FUJIKI, Yu; MATSUYAMA, Tomoki; TAKAYA, Hikaru; YASUDA, Nobuhiro; NAOKI, Nakatani; YAMAZOE, Seiji
- 2D3-28** Study on Electronic State of Ligand-Protected Bimetal Clusters by X-ray Absorption Spectroscopy (Fac. Sci., TMU) ○MATSUYAMA, Tomoki; SAKIAT, Hossain; KURASHIGE, Wataru; ASAKURA, Hiroyuki; KAWAMURA, Naomi; NEGISHI, Yuichi; NAKATANI, Naoki; YAMAZOE, Seiji

Chair: YAMAZOE, Seiji (13 : 50~14 : 30)

- * 13:40-13:50: interval for laptop PC connection.(2D3-30, 2D3-31, 2D3-32, 2D3-33)
- 2D3-30** Spectroscopic study on the Fibrous J-aggregate formation of amphiphilic cyanine dyes (Grad. Sch. Sci., Osaka City Univ.) ○YAMAMOTO, Shunsuke; YATSUHASHI, Tomoyuki; SAKOTA, Kenji

- 2D3-31** Collective excitation of electrons in photoexcited free silver clusters in the size range from 40 to 70 atoms (Fac. Sci., Kyushu Univ.) ○FUJIMOTO, Shuhei; KONO, Satoshi; ARAKAWA, Masashi; HORIO, Takuya; YASUIKE, Tomokazu; TERASAKI, Akira
- 2D3-32** Observation of the atom fluctuation dynamics in supported metal clusters (Lab. Chem. Life Sci., Tokyo Tech.) ○ONISHI, Takaaki; MORITA, Mari; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2D3-33** Fluctuation of platinum clusters observed by transmission microscopy (Lab. Chem. Life Sci., Tokyo Tech.) ○TOYONAGA, Tetsuya; ONISHI, Takaaki; MARITA, Mari; IMAOKA, Takane; YAMAMOTO, Kimihisa

Dielectric Properties

Chair: TAKAHASHI, Kazuyuki (14 : 40~15 : 30)

- * 14:30-15:40: interval for laptop PC connection.(2D3-35, 2D3-36, 2D3-37, 2D3-39)
- 2D3-35** Dielectric property of hexamethylenetetramine-based ionic crystals (Fac. Sci., Yamaguchi Univ.) MORITA, Hagino; ○TSUNASHIMA, Ryo
- 2D3-36** Exploring a graded structure in molecular single crystals fabricated by thermal treatment (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○SHIGA, Misaki; TSUNASHIMA, Ryo
- 2D3-37[#]** Structural phase transition in basket-shaped polyoxometalates Grafted with *n*-Butyl Molecules (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○FUJIBAYASHI, Masaru; TAKAHASHI, Kiyonori; NORO, Shin-ichiro; NAKAMURA, Takayoshi; TSUNASHIMA, Ryo
- 2D3-39** Synthesis and dielectric properties of Preyssler-type polyoxometalate containing Ho³⁺ (Fac. Sci., Hiroshima Univ.) ○KIMURA, Maki; KATOU, Chisato; MARUYAMA, Rio; INOUE, Katsuya; TSUNASHIMA, Ryo; SADAKANE, Masahiro; NISHIHARA, Sadafumi

Chair: AKUTAGAWA, Tomoyuki (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(2D3-41, 2D3-42, 2D3-43, 2D3-44, 2D3-45)
- 2D3-41** Synthesis and Properties of Paramagnetic Plastic Crystals Containing Ferrocene Derivatives (Grad. Sch. Sci., Kobe Univ.) ○KIMATA, Hironori; SAKURAI, Takahiro; OHTA, Hitoshi; MOCHIDA, Tomoyuki
- 2D3-42** Synthesis of Coordination Polymers Incorporating Ionic Liquids (Sch. Sci., Kobe Univ.) ○QIU, Yi; KIMATA, Hironori; MOCHIDA, Tomoyuki
- 2D3-43** Synthesis of Ionic Liquids from Sandwich-Type Ruthenium Complexes with Thioether Groups (Grad. Sch. Sci., Kobe Univ.) ○FAN, Rong; SUMITANI, Ryo; MOCHIDA, Tomoyuki
- 2D3-44** Synthesis of Two-Component Mixed Solutions Containing Ionic Liquids that Form Coordination Polymers by UV Light Irradiation (Grad. Sch. Sci., Kobe Univ.) ○KUSAKABE, Takuya; MOCHIDA, Tomoyuki
- 2D3-45** Synthesis of Photoreactive Poly(ionic liquid) Gels Containing Cationic Sandwich-Type Ruthenium Complexes (Grad. Sch. Sci., Kobe Univ.) ○SUMITANI, Ryo; MOCHIDA, Tomoyuki

Chair: TSUNASHIMA, Ryo (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(2D3-47, 2D3-48, 2D3-49, 2D3-50, 2D3-51)
- 2D3-47** Raman study of the valence tautomerization in [(Fe(RR-cth))(Co(SS-cth)(dhdq))(PF₆)₃] (Fac. of Sci., Okayama Univ. of Sci.) ○CHINEN, Takumi; WATANABE, Misaki; KANEGAWA, Shinji; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; TAKAHASHI, Kazuyuki; SATO, Osamu; YAMAMOTO, Kaoru
- 2D3-48[#]** Molecular Assembly Structures and Dielectric Response of Mixed Crystals of Ferroelectric and Antiferroelectric Alkylamide-Substituted Benzene Derivatives (Grad. Sch. Eng., Tohoku Univ.) ○WU, Jianyun; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 2D3-49** Ferroelectricity and Even-odd Effect of Terephthal-dialkylamide Derivatives (Graduate School of Engineering, Tohoku University) ○KAWANA, Moeko; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 2D3-50[#]** Preparations, Molecular Assemblies, and Physical Properties of Benzenecarboxamides Bearing Hydrophobic -CONHC₁₀H₂₁ Chains and Hydrophilic -CONH(CH₂CH₂O)₃CH₃ Chains (IMRAM, Tohoku Univ.) ○JING, Xiaozhu; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 2D3-51[#]** Synthesis of metal substituted lambda-trititanium-pentoxide(λ -Ti₃O₅) (Grad. Sch. Sci., The Univ. of Tokyo) ○JIA, Fangda; YOSHIKIYO, Marie; NAKAGAWA, Kosuke; NAMAI, Asuka; OHKOSHI, Shinichi

Monday, March 18, AM

Conductors

Chair: UEDA, Akira (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D3-01, 3D3-02, 3D3-03, 3D3-04, 3D3-05)
- 3D3-01** Development of novel molecular conductor with naphthalene diimide structure (Sch. Sci., Tohoku Univ.) ○YAMANAKA, Shuntaro; YAMASHITA, Masahiro; IGUCHI, Hiroaki; TAKAISHI, Shinya
- 3D3-02** Structure and Physical Property of Alkali Metal Salts of Naphthalene

- Diimide Dipropiolate. (IMRAM, Tohoku Univ.) ○ABE, Haruka; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki
- 3D3-03** A Correlation between Cationic Structure and Electron Mobility in Dianionic Naphthalenediimide Derivatives (Grad. Sch. Eng., Tohoku Univ.) ○KAWASAKI, Ayumi; HOSHINO, Norihisa; TAKEDA, Takashi; MATSUDA, Wakana; SEKI, Shu; AKUTAGAWA, Tomoyuki
- 3D3-04** Electrical properties and melting behavior of [Ni(dmit)₂] salt of dibenzo[24]crown-8/1-ethyl-3-methylimidazolium supramolecular cations (RIES, Hokkaido Univ.; Grad. Sch. Env. Sci., Hokkaido Univ.; IMRAM, Tohoku Univ.; Fac. Env. Earth Sci., Hokkaido Univ.) ○TAKAHASHI, Kiyonori; SHIRAKAWA, Yuki; HOSHINO, Norihisa; NORO, Shin-ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 3D3-05*** Supramolecular Chemistry Approach for Electronic-State Control of [Ni(dmit)₂] Spin Ladder (Grad. Sch. Sci., Hiroshima Univ.) ○ICHIHASHI, Katsuya; KONNO, Daisuke; MARYUNINA, Kseniya; INOUE, Katsuya; TOYODA, Kazuhiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; NISHIHARA, Sadafumi

Chair: TAKAISHI, Shinya (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D3-08, 3D3-09, 3D3-10, 3D3-12)
- 3D3-08** Structures and Electrical Properties of Li+(Crown ether)-TCNQ complexes (IMRAM, Tohoku Univ.) ○SAMBE, Kohei; HOSHINO, Norihisa; TAKEDA, Takashi; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki
- 3D3-09** Structures and Properties of (D)₂BrC₂H₄SO₃ (D = BEDT-TTF and BETS) (Grad. Sch. Sci., Osaka Univ.) KOYAMA, Yuta; ○AKUTSU, Hiroki; NAKAZAWA, Yasuhiro
- 3D3-10[#]** Development of Ambipolar Superconducting FET using Molecular Strongly Correlated Material (CIMO_s, IMS) ○KAWAGUCHI, Genta; SUDA, Masayuki; YAMAMOTO, Hiroshi
- 3D3-12[#]** Quantum spin liquid in an organic triangular-lattice with disorder free anion (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TOMENO, Shinya; YOSHIDA, Yukihiko; KISWANDHI, Andhika; MAESATO, Mitsuhiro; SHIMIZU, Yasuhiro; KITAGAWA, Hiroshi

Chair: AWAGA, Kunio (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3D3-15)
- 3D3-15[#]** CSJ Award for Creative Works Studies on Phase-Transition Devices Based on Organic Mott Insulators (CIMO_s, IMS) ○YAMAMOTO, Hiroshi

Monday, March 18, PM

Chair: IGUCHI, Hiroaki (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(3D3-28, 3D3-29, 3D3-30, 3D3-31)
- 3D3-28** Structures and properties of coordination polymers using multifunctional ligands (Grad. Sch. Sci., Kobe Univ.) ○SUGITANI, Maho; TAKAHASHI, Kazuyuki
- 3D3-29** Honeycomb structures formed by 3-fold symmetric triptycene derivatives (Grad. Sch. Sci., Nagoya Univ.) ○SHUKU, Yoshiaki; AWAGA, Kunio
- 3D3-30** AC output optoelectronic conversion photocell utilizing photo-induced polarization current (Nagoya Univ. VBL) ○YOKOKURA, Seiya; MATSUSHITA, Michio; AWAGA, Kunio
- 3D3-31[#]** Ultrafast electron relaxation process in gold thin film observed by transient reflectometry (Grad. Sch. Sci., The Univ. of Tokyo) ○HAYASHI, Ryosuke; IWASAKI, Atsushi; YAMANOUCI, Kaoru

Surface, Thin Films and Nano Materials

Chair: MATSUMOTO, Takuya (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3D3-33)
- 3D3-33[#]** CSJ Award for Creative Works Real-space investigation of energy transfer, conversion and dissipation of a single molecule at solid surfaces (RIKEN SISEL) ○KIM, Yousoo
- Chair: TAJIMA, Hiroyuki (15 : 30~16 : 30)
- * 15:20-15:30: interval for laptop PC connection.(3D3-40, 3D3-42, 3D3-44)
- 3D3-40[#]** Photo-induced anomaly in ion transport of water over metal nanostructure (Grad. Sch. Sci., Hokkaido Univ.) ○FUKUSHIMA, Tomohiro; MURAKOSHI, Kei
- 3D3-42[#]** Single-Particle Photoluminescence Switching Induced by Ion Dynamics in Organic-Inorganic Perovskite Nanoparticles (Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.) ○KARIMATA, Izuru; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 3D3-44[#]** Single-molecule recognition of monoamine neurotransmitters with machine learning (ISIR, Osaka Univ.) ○KOMOTO, Yuki; OHSHIRO, Takahito; TAKAAI, Takayuki; YOSHIDA, Takeshi; WASHIO, Takashi; TANIGUCHI, Masateru

Chair: KATAYAMA, Tetsuro (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(3D3-47, 3D3-49, 3D3-51)
- 3D3-47*** Tunneling conduction through Ru complexes (Grad. Sch. Sci., Osaka

Univ.) OTSUKA, Yoichi; NISHIJIMA, Satoshi; SAKAMOTO, Leo; KAJIMOTO, Kentaro; MATSUMOTO, Takuya
3D3-49* Electronic structures and electronic transport properties of nanographene (Sch. Sci., Tokyo Tech.) OFUJII, Shintaro; KIGUCHI, Manabu
3D3-51** Physically deposited Nylon 6 thin film and the temperature response (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OLIU, Yuwei; SAKURAI, Kenji

Tuesday, March 19, AM

Chair: TACHIKAWA, Takashi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-03, 4D3-04, 4D3-05, 4D3-06)
- 4D3-01** Synthesis of InP and Related III-V Group Quantum Dots and their Optical Properties (Sch. Sci. Tech., Kwansai Gakuin Univ.) OFUJITAKA, Ayana; USUI, Yuta; KATAYAMA, Tetsuro; TAMAI, Naoto
- 4D3-02** Shape dependency of plasmon modes and optical field enhancement in gold nanoplate (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) OHASEGAWA, Seiju; IMAEDA, Keisuke; IMURA, Kohei
- 4D3-03** Bias voltage dependence of vibrational energy in 1,4-benzenedithiol single molecular junction (Sch. Sci., Tokyo Tech.) OYASURAOKA, Koji; KANEKO, Satoshi; TSUKAGOSHI, Kazuhito; KIGUCHI, Manabu
- 4D3-04** Photoreduction of nitrothiophenol induced at well-defined gold gap (Sch. Sci., Tokyo Tech.) OKANEKO, Satoshi; WATANABE, Shuhei; KASAI, Shinya; TSUKAGOSHI, Kazuhito; KIGUCHI, Manabu
- 4D3-05** Accumulated charge measurement using a chip with a backside electrode prepared in restricted area (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Eng., Univ. of Hyogo) OTANIMURA, Toshiaki; OGINO, Akinari; MIYAMOTO, Yuuta; KADOYA, Tomohumi; KOMINO, Takeshi; YOKOMATSU, Tokuji; MAENAKA, Kazusuke; TAJIMA, Hiroyuki
- 4D3-06** Evaluation of carrier mobility of a hole-transporting resin dispersion film by MIS-CELIV method (Grad. Sch. Eng., Osaka Univ.) OADACHI, Sho; SUZUKI, Yuna; SUENOBU, Tomoyoshi; NAKAYAMA, Ken-ichi

Magnetism

Chair: KOMINO, Takeshi (10 : 10 ~ 11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-09, 4D3-10, 4D3-11)
- 4D3-08** Theoretical study on Iron-oxo porphyrin model complex by hybrid-DFT and DMRG-CAS methods (RIKEN R-CCS) OKAWAKAMI, Takashi; SUZUKI, Yuta; MIYAGAWA, Koichi; SHOJI, Mitsuo; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; NAKAJIMA, Takahito; YAMAGUCHI, Kizashi
- 4D3-09** Metal Substitution Effects on Structures and Physical Properties of Catechol-fused Metal-dithiolenes Complexes (ISSP, The Univ. of Tokyo) OYOKOMORI, So; UEDA, Akira; MORI, Hatsumi
- 4D3-10*** Crystal Structure, Dielectric and Magnetic properties of Oxalate-Bridged MnCr Complex with Supramolecular Cation of (Anilinium Derivatives)(Benzol[18]crown-6) (Grad. Sch. Env. Sci., Hokkaido Univ.) OWU, Jiabing; TAKAHASHI, Kiyonori; HOSHINO, Norihisa; SUZUKI, Yasutaka; HISAKI, Ichiro; KAWAMATA, Jun; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi
- 4D3-11**** Crystal Structure and Physical Properties of Novel [Ni(dmit)₂] Salts of Protonated DABCO (Grad. Sch. Env. Sci., Hokkaido Univ.) OLI, Simin; TAKAHASHI, Kiyonori; HISAKI, Ichiro; NAKAMURA, Takayoshi

Chair: KAWAKAMI, Takashi (11 : 10 ~ 12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(4D3-14, 4D3-15, 4D3-17, 4D3-18)
- 4D3-14** Characterization of the Thin Film consist of π -extended Heteroleptic Iron(III) Spin Crossover Complex (Grad. Sch. Sci., Kobe Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; CSREA, Kobe Univ.; MPRC, Kobe Univ.) OMIYAWAKI, Atsushi; TAKAHASHI, Kazuyuki; PHAM, Song-toan; OHTO, Tatsuhiko; TADA, Hirokazu; SAKURAI, Takahiro; OHTA, Hitoshi
- 4D3-15**** Metal substitution site effect on ϵ -iron oxide hard magnetic ferrite (Grad. Sch. Sci., The Univ. of Tokyo) ONAMAI, Asuka; YOSHIKIYO, Marie; OHKOSHI, Shin-ichi
- 4D3-17** Magnetoelastic Effect in Organic-inorganic Perovskite Like Compound having Ferroelasticity (Grad. Sch. Sci., Hiroshima Univ.) OTSUCHIYA, Naoto; AOKI, Saya; NAKAYAMA, Yuki; MARYUNINA, Kseniya; NISHIHARA, Sadahumi; SUZUKI, Takashi; INOUE, Katsuya
- 4D3-18** Magnetic properties of a molecular spin ladder Cu₂(CO₃)(ClO₄)₂(NH₃)₆ in a low temperature region (Fac. Sci., Hiroshima Univ.) OMANABE, Jun; NISHIDA, Kazuki; XIAO, Zhang; NAKANO, Yuki; INOUE, Katsuya; SHIMONO, Seiya; KUBOTA, Yoshiki; NISHIHARA, Sadafumi

Room D4

Bldg. 3 334

Inorganic Chemistry

Saturday, March 16, PM

Polyoxometalate

Chair: ISHIKAWA, Eri (13 : 10 ~ 14 : 00)

- * 13:00-13:10: interval for laptop PC connection.(1D4-26, 1D4-27, 1D4-28, 1D4-29, 1D4-30)
- 1D4-26** Reduction-Induced Uptake of Metal Ions by a Polyoxometalate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OTAMAI, Nanako; SATO, Hiroyasu; UCHIDA, Sayaka
- 1D4-27** Rapid Formation of Small Mixed-Valence Luminescent Silver Clusters via Cation-Coupled Electron-Transfer in Redox-Active Porous Ionic Crystal Based on Dodecamolybdophosphate (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OKUNAGA, Tomoki; NODA, Yasuto; TACHIKAWA, Takashi; UCHIDA, Sayaka
- 1D4-28** Pseudo polymorphism of tetraphenylphosphonium hexamolybdochromates (Coll. Hum. Sci., Nihon Univ.) TAKAYANAGI, Mayu; MORIYA, Shun; OKAYASU, Yukito; OHASHI, Kenji; OZEKI, Tomoji
- 1D4-29** Synthesis of phosphotungstic acid hybrid crystals by using amphiphilic polymerizable ionic liquids (Sch. Sci., Tokai Univ.) OMISAWA, Toshiyuki; KIYOTA, Yoshiki; KOGUCHI, Shinichi; ITO, Takeru
- 1D4-30** Decomposition products of the spherical Keplerate type polyoxometalate (Grad. Sch. Integrated Basic Sci., Nihon Univ.) OSHIKAWA, Yuichi; OHASHI, Kenji; OZEKI, Tomoji

Chair: ITO, Takeru (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1D4-32, 1D4-33, 1D4-35, 1D4-36, 1D4-37)
- 1D4-32** Synthesis and Properties of Ring-Shaped Phosphotungstates Possessing Multinuclear 3d-Metals (Grad. Sch. Eng., The Univ. of Tokyo) OSASAKI, Shinichi; YONESATO, Kentaro; SUZUKI, Kosuke; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 1D4-33**** Organic-Inorganic Hybrids Based on Keggin-Type Trivalent Lanthanum Phosphomolybdate and Pyridyl Ligands (Grad. Sch. Eng., The Univ. of Tokyo) OLI, Chifeng; SUZUKI, Kosuke; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 1D4-35*** The effects of pH values on the solid-state electrochemistry of Wells-Dawson-type mono-aluminum-substituted polyoxotungstate (Grad. Sch. Sci., Eng., Yamagata Univ.) OSHIBATA, Ko; MATSUI, Jun; NABIKI, Hideki; UNOURA, Kei
- 1D4-36** High Proton Conduction in Crystalline Composites Based on Polyoxometalates and Polyallylamine (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OIWANO, Tsukasa; MIYAZAWA, Satoru; UCHIDA, Sayaka
- 1D4-37** Crystalline composite based on Dawson-type polyoxometalate and polymer for proton conduction (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OTOMODA, Masahiro; UCHIDA, Sayaka

Chair: SUGAHARA, Yoshiyuki (15 : 20 ~ 16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(1D4-39, 1D4-40, 1D4-41)
- 1D4-39*** The application of Polyoxoniobates in Decontamination of Chemical Warfare Agent Simulants (Beijing Inst. of Tech.) OJING, Dong; CHANGWEN, Hu; ZHENG GUO, Lin; MINHUA, Cao
- 1D4-40** Oxidation of cyclohexene to adipic acid with hydrogen peroxide catalyzed by polyoxotungstolanthanoate (Coll. Eng., Chubu Univ.) OISHIKAWA, Eri; TOGAWA, Yuta
- 1D4-41**** Automated Synthesis of Hetero-Multinuclear Metal Clusters by Robot Platform and Discovery of New Single-Molecule Magnets (Grad. Sch. Eng., The Univ. of Tokyo; Sch. Chem., Univ. of Glasgow) OMINATO, Takuo; SALLEY, Daniel; CRONIN, Leroy; SUZUKI, Kosuke; MIZUNO, Noritaka; YAMAGUCHI, Kazuya

Porous Compounds, Cluster Compounds

Chair: UCHIDA, Sayaka (16 : 10 ~ 17 : 00)

- * 16:00-16:10: interval for laptop PC connection.(1D4-44, 1D4-45, 1D4-47)
- 1D4-44** Preparation of Ni²⁺ exchange form of Na-GTS type titanosilicate and its cation distribution (Grad. Sch. Sci. Tech., Yamaguchi Univ.) OFUJIWARA, Keiko; NAKATSUKA, Akihiko
- 1D4-45**** Identification of Side-on Co^{III}-Peroxo Featuring Square Planar Geometry of Cobalt Center (S = 1) Constrained by Lattice-Oxygen Atoms of Molecular Dimension Pore of MFI Zeolite (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OODA, Akira; MAMENARI, Yuki; OHKUBO, Takahiro; KURODA, Yasushige
- 1D4-47**** Multimetallic Clusters Synthesized by Dendrimer as a Template (IIR, Tokyo Tech.; ERATO, JST; PRESTO, JST; RIKEN) OTSUKAMOTO, Takamasa; KAMBE, Tetsuya; NAKAO, Aiko; IMAOKA, Takane;

YAMAMOTO, Kimihisa

Keisuke; TOYOSHIMA, Atsushi

Sunday, March 17, AM

Structures and Properties of Inorganic Compounds

Chair: SHIMAKAWA, Yuichi (10 : 20~11 : 10)

- * 10:10-10:20: interval for laptop PC connection.(2D4-09, 2D4-11, 2D4-12, 2D4-13)
- 2D4-09*** Lanthanide(III) triboluminescence: design and characterization by crystallography, spectroscopy and aerodynamics (ENS Paris-Saclay, CNRS) ○HIRAI, Yuichi; KOTANI, Akira; SAKAUE, Hirota; KITAGAWA, Yuichi; HASEGAWA, Yasuchika
- 2D4-11** Synthesis and magnetism of new layered oxychalcogenides with square-planar coordination (Kyoto Univ.) ○MATSUMOTO, Yuki; YAMAMOTO, Takafumi; NAKANO, Kousuke; HONGO, Kenta; MAEZONO, Ryo; KAGEYAMA, Hiroshi
- 2D4-12** Synthesis and Photocatalytic Activity of Bismuth Vanadate Based pn Junctions (ACRC, Nagoya Inst. of Tech.) ○RAZAVI-KHOSROSHAHI, Hadi; MOHAMMADZADEH, Sara; HOJAMBERDIEV, Mirabbos; KITANO, Sho; YAMAUCHI, Miho; FUJI, Masayoshi
- 2D4-13** Lithium ion conduction mechanism between LiX and LiOH system studied by XRD and NMR (Coll. Industrial Tech., Nihon Univ.) ○YAMADA, Koji; FYKUSHIMA, Yoshihiro; YAMANE, Youhei

Chair: TANAKA, Katsuhisa (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2D4-15, 2D4-17)
- 2D4-15*** High H- conductivity induced by vacancy order-disorder transition in Sr₂LiH₃O (IMS) ○KOBAYASHI, Genki; WATANABE, Akihiro; AYU, Nur Ika Puji; FENG, Bin; NODA, Yasuto; KUBOTA, Akiko; TAKEIRI, Fumitaka; YONEMURA, Masao; SHIBATA, Naoya; KANNO, Ryoji
- 2D4-17*** CSJ Award for Young Chemists Design and development of novel persistent phosphor by control of photo-induced electron transfer process (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○UEDA, Jumpei

Sunday, March 17, PM

Solid-State Chemistry

Chair: YAMAMOTO, Takafumi (13 : 20~14 : 40)

- * 13:10-13:20: interval for laptop PC connection.(2D4-27, 2D4-29, 2D4-31, 2D4-33)
- 2D4-27*** Structure-property relations in Ag-Bi-I compounds (ICR, Kyoto Univ.) ○KOEDTRUAD, Anucha; HANDA, Taketo; NAKAMURA, Tomoya; SAITO, Takashi; KAN, Daisuke; KANEMITSU, Yoshihiko; WAKAMIYA, Atsushi; SHIMAKAWA, Yuichi
- 2D4-29*** Magnetic order of A'-site iron spins in CaFe₂Ti₄O₁₂ and field-induced switching (ICR, Kyoto Univ.) ○AMANO PATINO, Midori; DENIS ROMERO, Fabio; GOTO, Masato; SAITO, Takashi; SHIMAKAWA, Yuichi
- 2D4-31*** Synthesis of new cation-ordered perovskites via high pressure reduction of defect pyrochlores (ICR, Kyoto Univ.) ○DENIS ROMERO, Fabio; AMANO, Midori; GOTO, Masato; SAITO, Takashi; ATTFIELD, J. Paul; SHIMAKAWA, Yuichi
- 2D4-33*** Oxygen release and accompanying structural changes in B-site-layered/disordered perovskites Ca₂FeMnO₆ with unusually high valence Fe⁴⁺ (ICR, Kyoto Univ.) ○GOTO, Masato; SAITO, Takashi; SHIMAKAWA, Yuichi

Radiochemistry, Nuclear Chemistry, and f-Block Elements

Chair: SHINOHARA, Atsushi (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2D4-36, 2D4-37, 2D4-38, 2D4-39, 2D4-41)
- 2D4-36** Rediscovery of periodic table using generative model (SOKENDAI STATISTIC) ○KUSABA, Minoru; YOSHIDA, Ryo
- 2D4-37** Development of a low-energy atomic-beam extraction technique for superheavy elements (ASRC, JAEA) ○TOMITSUKA, Tomohiro; TOKOI, Katsuyuki; SATO, Tetsuya; ITO, Yuta; SUZUKI, Hayato; ASAI, Masato; TSUKADA, Kazuaki; TOYOSHIMA, Atsushi; CHIERA, Nadine M.; GOTO, Shin'ichi; NAGAME, Yuichiro
- 2D4-38** Development of an electron-ion recombination atomic beam source (Coll. Sci., Ibaraki Univ.; ASRC, JAEA) ○SUZUKI, Hayato; ITO, Yuta; SATO, Tetsuya; TOMITSUKA, Tomohiro; TOKOI, Katsuyuki; ASAI, Masato; TSUKADA, Kazuaki; NAGAME, Yuichiro
- 2D4-39*** Measurement of excitation functions for the ^{206/207/208}Pb(¹¹B,_x)²¹²Fr reactions and complex formation studies of Fr with crown ethers (RIKEN Nishina Center for Accelerator-Based Science) ○KOMORI, Yukiko; HABA, Hiromitsu; YOKOKITA, Takuya; YANO, Shinya; SATO, Nozomi; GHOSH, Kaustab; SAKEMI, Yasuhiro; KAWAMURA, Hirokazu
- 2D4-41** Isothermal Gas Chromatographic Behaviour of the Db-oxchloride (ASRC, JAEA) ○SATO, Tetsuya; CHIERA, Nadine M.; TOMITSUKA, Tomohiro; TOKOI, Katsuyuki; SUZUKI, Hayato; ITO, Yuta; ASAI, Masato; TSUKADA, Kazuaki; SHIRAI, Kaori; INOUE, Hiroki; ADACHI, Sada; KASHIHARA, Ayuna; NAGAME, Yuichiro; GOTO, Shin'ichi; SUEKI,

Chair: SATO, Tetsuya (16 : 00~16 : 40)

- * 15:50-16:00: interval for laptop PC connection.(2D4-43, 2D4-44, 2D4-45, 2D4-46)
- 2D4-43** Spectroscopy of internal conversion electrons from ^{235m}U and half-life measurement using a retarding-field magnetic bottle electron spectrometer (Grad. Sch. Sci., Osaka Univ.) ○SHIGEKAWA, Yudai; KASAMATSU, Yoshitaka; YAMAKITA, Yoshihiro; WATANABE, Eisuke; YASUDA, Yuki; KONDO, Narumi; SHINOHARA, Atsushi
- 2D4-44** X-ray radiolysis-induced synthesis of metallic/oxide particles (LASTI, Univ. of Hyogo) ○YAMAGUCHI, Akinobu; FUKUOKA, Takao; OKADA, Ikuo; SAKURAI, Ikuya; UTSUMI, Yuichi
- 2D4-45** Anion exchange of Zr and Hf in sulfuric acid using the batch-type solid-liquid extraction apparatus for Rf study (RIKEN Nishina Center for Accelerator-Based Science; Grad. Sch. Sci., Osaka Univ.) ○YOKOKITA, Takuya; KASAMATSU, Yoshitaka; KOMORI, Yukiko; WATANABE, Eisuke; GHOSH, Kaustab; WANG, Yang; MORI, Daiki; SHINOHARA, Atsushi; HABA, Hiromitsu
- 2D4-46** Coprecipitation behavior of element 102, No, with Sm hydroxide in NH₃ and NaOH solution (Grad. Sch. Sci., Osaka Univ.) ○NINOMIYA, Hidemi; KASAMATSU, Yoshitaka; HAYAMI, Sho; NAGASE, Masahiro; SHIGEKAWA, Yudai; KONDO, Narumi; WATANABE, Eisuke; HABA, Hiromitsu; YOKOKITA, Takuya; KOMORI, Yukiko; MORI, Daiki; WANG, Yang; GHOSH, Kaustab; SATO, Nozomi; SHINOHARA, Atsushi

Monday, March 18, AM

Layered Materials

Chair: OSADA, Minoru (9 : 10 ~10 : 00)

- * 9:00-9:10: interval for laptop PC connection.(3D4-02, 3D4-03, 3D4-04, 3D4-05)
- 3D4-02*** Interlayer modification of layered nickel hydroxides using tripodal ligands with quaternary ammonium cation groups (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Eng., Yokohama Natl. Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○YAMADA, Yumiko; MURAMATSU, Keisuke; HAYASHI, Shiori; KURODA, Yoshiyuki; WADA, Hiroaki; SHIMOJIMA, Atsushi; KURODA, Kazuyuki
- 3D4-03** Effect of tripodal ligands on the morphology of magnesium hydroxide (Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Eng., Yokohama Natl. Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○KAMIYUSUKI, Yuya; MURAMATSU, Keisuke; KURODA, Yoshiyuki; WADA, Hiroaki; SHIMOJIMA, Atsushi; KURODA, Kazuyuki
- 3D4-04** Effect of tetrabutylammonium fluoride (TBAF) on silylation of interlayer surfaces of layered octasilicate (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○YATOMI, Masashi; NADEGE, Rey; MURAKAMI, Yuki; KOIKE, Masakazu; SAITO, Shohei; WADA, Hiroaki; SHIMOJIMA, Atsushi; PORTEHAULT, David; CARENCO, Sophie; CLÉMENT, Sanchez; ARMELLE, Ouali; CAROLE, Carcel; WONG CHI MAN, Michel; KURODA, Kazuyuki
- 3D4-05*** Preparation of metal hydroxide nanosheets through the hydrolysis reaction of alkoxy layered metal hydroxides (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Grad. Sch. Eng., Yokohama Natl. Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○MURAMATSU, Keisuke; KURODA, Yoshiyuki; WADA, Hiroaki; SHIMOJIMA, Atsushi; KURODA, Kazuyuki

Chair: YAMAMOTO, Eisuke (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3D4-08, 3D4-09, 3D4-10, 3D4-12)
- 3D4-08** Synthesis of mesoporous TiO₂ thin film with controlled crystal lattice orientation (Res. Inst. Sci. Technol., TUS) ○SUZUKI, Norihiro; TERASHIMA, Chiaki; NAKATA, Kazuya; KATSUMATA, Ken-ichi; FUJISHIMA, Akira
- 3D4-09** Three-dimensional hierarchical structure of niobate nanosheet in colloid induced by laser irradiation (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○SUZUKI, Yasutaka; NAGASHITA, Takashi; IKEDA, Akira; TAKEDA, Mitsuki; ISHITOBI, Wataru; NAKATO, Teruyuki; KAWAMATA, Jun
- 3D4-10*** Evaluation for Magnetic susceptibility of Nickel hydroxide between Graphene oxide layered (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○SHUDO, Yuta; HAYAMI, Shinya
- 3D4-12*** Electric alignment of nanosheets in niobate-graphene oxide binary colloids (Grad. Sch. Eng., KIT) ○SIRINAKORN, Thipwipa; ISHITOBI, Wataru; MOURI, Emiko; OGAWA, Makoto; NAKATO, Teruyuki

Chair: TANAKA, Katsuhisa (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(3D4-14, 3D4-15, 3D4-16)
- 3D4-14** Expression of hydroxyl ion conductivity in graphene oxide under basic conditions (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○FUKUDA, Masahiro; HAYAMI, Shinya
- 3D4-15** Synthesis and substitution chemistry of manganese/cobalt oxide nanosheets (WPI-MANA, NIMS) ○SAKAI, Nobuyuki; SASAKI,

Takayoshi

3D4-16** Superior Anionic Transport in 2D Hydroxide Nanosheets (MANA, NIMS) SUN, Pengzhan; CHEN, Fashen; ZHOU, Wei; OMA, Renzhi; SASAKI, Takayoshi

Room D5

Bldg. 3 335

Energy and Related Chemistry, Geo and Space Chemistry

Sunday, March 17, AM

Chair: KUBO, Takaya (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(2D5-04, 2D5-05, 2D5-06, 2D5-07, 2D5-08)

2D5-04 Design of 10kW a windowed solar gasification reactor, temperature measurement and batch type reactortestings (Grad. Sch. Sci. and Technol., Niigata Univ.) OMIYAGUCHI, Yousuke; KUMAKI, Satoshi; KURATA, Natsuki; KODAMA, Tatsuya; HATMACHI, Tsuyoshi; GOUKON, Nobuyuki

2D5-05 Gasification testing of 10kW a windowed solar gasification reactor by continuously feeding of coal-coke (Grad. Sch. Sci. and Technol., Niigata Univ.) OKUMAKI, Satoshi; MIYAGUCHI, Yousuke; KURATA, Natsuki; KODAMA, Tatsuya; HATAMACHI, Tsuyoshi; GOKON, Nobuyuki

2D5-06 Study of water splitting activity of Co-doped cerium oxides by thermogravimetric analysis for two-step thermochemical cycle (Grad. Sch. Sci. and Technol., Niigata Univ.) OHATA, Hyuga; SHIDA, Enzou; SAIKATSU, Takumi; GOKON, Nobuyuki; HATAMACHI, Tsuyoshi; KODAMA, Tatsuya

2D5-07 Charging/discharging testing of metal-doped manganese oxides as a chemical storage material for solar power generation (Grad. Sch. Sci. and Technol., Niigata Univ.) ONISHIZAWA, Aoi; YAWATA, Takehiro; HATAMACHI, Tsuyoshi; KODAMA, Tatsuya; GOKON, Nobuyuki

2D5-08 Molecular Simulation on Light-Emission Process in Combustion (Sch. Med., Nihon Univ.) OKOMATSU, Tokutaro; MIYAMOTO, Yoshiyuki

Chair: GOKON, Nobuyuki (10 : 30~11 : 40)

* 10:20-10:30: interval for laptop PC connection.(2D5-10, 2D5-12, 2D5-13, 2D5-14, 2D5-15)

2D5-10* Addition effects of Ketjen black into the electrode layers of nanocarbon polymer actuators (IFMRI, AIST) OSUGINO, Takushi; ASAKA, Kinji

2D5-12 Thermoelectric properties of polythiophenes containing polyhedral oligomeric silsesquioxane (Grad. Sch. Eng., Hiroshima Univ.) OWAKITA, Tsuyoshi; OYAMA, Yousuke; IMAE, Ichiro

2D5-13 Thermoelectric properties of composite films of PEDOT:PSS/carbon nanotube controlled by their oxidation levels (Fac. Eng., Hiroshima Univ.) OYAMANE, Haruka; OYAMA, Yousuke; IMAE, Ichiro

2D5-14 Thermoelectric properties of conducting polymers doped with a siloxane-based polymer electrolyte (Fac. Eng., Hiroshima Univ.) OUEKI, Nao; OYAMA, Yousuke; IMAE, Ichiro

2D5-15* Application of NMR spectral profiling to the analysis of petroleum exploration (GSJ, AIST) OSAHINA, Kenta; NEMOTO, Tadashi

Sunday, March 17, PM

Chair: HIRAYAMA, Masaaki (13 : 10~14 : 20)

* 13:00-13:10: interval for laptop PC connection.(2D5-26, 2D5-27, 2D5-28, 2D5-29, 2D5-30, 2D5-31, 2D5-32)

2D5-26 Hydrogen synthesized from reaction between metal and water: mechanism of extraordinary amount of hydrogen generation. (Fac. Sci., Hiroshima Univ.) OYAMAMOTO, Takuya; SAITOW, Ken-ichi

2D5-27 Solar-driven CO₂ reduction coupling with H₂O oxidation by earth-abundant Mn complex and Fe oxyhydroxide catalysts (Toyota Central R&D Labs., Inc.) OSEKIZAWA, Keita; ARAI, Takeo; SATO, Shunsuke; SUZUKI, Tomiko; MORIKAWA, Takeshi

2D5-28 Investigation of Unique Reaction Selectively for the Visible Light Driven Plasmonic Hydrogen Evolution Reaction (Sch. Sci., Hokkaido Univ.) OSATO, Daiki; MINAMIMOTO, Hiro; URAKOSHI, Kei

2D5-29 Hydrogen formation reaction over gold nanorods modified titanium oxide photocatalyst under irradiation of visible light (Fac. Sci. Eng., Kindai Univ.) OKOJIMA, Tomoya; TANAKA, Atsuhiko; KOMINAMI, Hiroshi

2D5-30 Efficient production of hydrogen peroxide on BiVO₄ anode electrode (Fac. Env. Urban Eng., Kansai Univ.) OKOGA, Takumi; FUJIMOTO, Daiki; FUKU, Kojiro; SAYAMA, Kazuhiro; IKENAGA, Naoki

2D5-31 Photocatalytic reduction of furfural over TiO₂ modified with various organic compounds under visible light irradiation (Grad. Sch. Sci. Eng., Kindai Univ.) OYAMAMOTO, Yuhei; FUKUI, Makoto; TANAKA, Atsuhiko; KOMINAMI, Hiroshi

2D5-32 Study on the preparation method for the development of highly active BiVO₄ photocatalyst for water oxidation from an aqueous solution containing Fe (III) ion (Grad. Sch. Fac. Sci. Technol., TUS; RCPV, AIST; NIPPON STEEL & SUMITOMO METAL CORPORATION; NIPPON STEEL Chemical & Material Co.Ltd) OSHIMAMURA, Kagari; MISEKI, Yugo; GUNJI, Takahiro; SHICHIJOU, Yasuji; YOSHIDA, Keita; SUZUKI, Kimihito; SAYAMA, Kazuhiro

Chair: KATOH, Ryuzi (14 : 30~15 : 40)

* 14:20-14:30: interval for laptop PC connection.(2D5-34, 2D5-35, 2D5-36, 2D5-37, 2D5-39)

2D5-34 Electrochemical reduction of nitrobenzene sulfonic acid over TiO₂ electrode. (Fac. Sci. Eng., Kindai Univ.) OHIGASHIBAYASHI, Tomoya; TANAKA, Atsuhiko; KOMINAMI, Hiroshi

2D5-35 Exploitation of novel hydrogen storage method with dihydrogen metal complex incorporated into MOF (Grad. Sch. Sci., Tohoku Univ.) OUCHIDA, Kaiji; TAKAISHI, Shinya; YAMASHITA, Masahiro

2D5-36 Electro-synthesis of alanine from pyruvic acid using titanium dioxide supported electrode (I₂CNER, Kyushu Univ.) OFUKUSHIMA, Takashi; YAMAUCHI, Miho

2D5-37** Identification and management of the descriptor for oxygen evolution reaction over iron oxide catalysts (Clean Energy Research Center, Univ. of Yamanashi) OTAKASHIMA, Toshihiro; IRIE, Hiroshi

2D5-39** Metal-cluster-loading effects on layered double hydroxide nanosheet electrocatalysts for oxygen evolution reaction (I₂CNER, Kyushu Univ.) OKITANO, Sho; YAMAUCHI, Miho

Chair: KOMINAMI, Hiroshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2D5-42, 2D5-43, 2D5-44, 2D5-45, 2D5-46, 2D5-47)

2D5-42 Photo electrochemical lithium ion intercalation reaction in the interface between α -MoO₃ electrode/aqueous electrolyte (Sch. Mater. & Chem. Tech., Tokyo Tech.) OTSUNODA, Yuki; SUZUKI, Kota; HIRAYAMA, Masaaki; KANNO, Ryoji

2D5-43* Photoelectrochemical Supercontinuum SolarLight Zero Bias Hydrogen Generation with Membrane-Based Cells Designed for Decreasing Overall WEV and Water Dissociation (21) (NIT, Fukushima College) OSAKAMAKI, Kenji; WATANABE, Ayana; MATSUDA, Honoka; USUI, Sayuri; SAKASHITA, Wakana; KATO, Ryoko; ENDO, Haruka; SATO, Masataka

2D5-44* Withdrawn

2D5-45 Adsorption behavior and photochemical property of nonionic biphenyl derivatives on inorganic nano-sheets with anionic charge (Grad. Sch. Urban Envr. Sci., TMU) ONAKAZATO, Ryosuke; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke

2D5-46 In Situ X-ray Absorption Spectroscopy Investigation of Spinel MCo₂O₄ (M = Mn, Fe, Co, Ni and Zn) Electrocatalysts for the Oxygen Evolution Reaction (Fac. Human Life Env., Nara Women's Univ.) OHARADA, Masafumi; KUWA, Masako

2D5-47 Preparation and Electrochemical Activity of PtRu Alloy Nanoparticles via Simultaneous Sputtering onto an Ionic Liquid (Grad. Sch. Eng., Nagoya Univ.) ONAKAJIMA, Hirotoshi; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa

Monday, March 18, AM

Chair: NOHARA, Shinji (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(3D5-01, 3D5-02, 3D5-03, 3D5-04, 3D5-06)

3D5-01 Preparation of Li_{4-x}Sn_{1-x}Sb_xS₄ solid solutions and the evaluation as electrode active material. (Grad. Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; OKAWASAKI, Yusuke; KISHI, Takuma; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro

3D5-02 Liquid-phase synthesis of Na_{3-x}PS_{4-x}Cl_x solid electrolytes using acetonitrile (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; OITO, Akane; MASUZAWA, Naoki; YUBUCHI, So; SAKUDA, Atsushi; TATSUMISAGO, Masahiro

3D5-03 Preparation of Li_{7-x}PS_{6-x}Cl_x crystals and evaluation of Li dissolution/deposition performance. (Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; UMEDA, Tomohito; SUYAMA, Motoshi; YUBUCHI, So; SAKUDA, Atsushi; TATSUMISAGO, Masahiro

3D5-04* In situ Study of Lithium Metal Anode Reaction by Electrochemical Quartz Crystal Microbalance (Fac. Core Res., Ochanomizu Univ.) OKONDO, Toshihiro; SMARAN, Kumar Sai; OHAMA, Ayano; NIIDA, Asako

3D5-06** Analysis of Electrode Reaction in Fluoride Shuttle Batteries by Atomic Force Microscopy-The Effects of Electrolyte Composition on the Battery Performance- (SACI, Kyoto Univ.; Grad. Sch. of Global Env. Studies, Kyoto Univ.; Grad. Sch. Sci., Kobe Univ.) OMINATO, Taketoshi; KONISHI, Hiroaki; ONISHI, Hiroshi; ABE, Takeshi; OGUMI, Zempachi

Chair: HAYASHI, Akitoshi (10 : 20~11 : 20)

* 10:10-10:20: interval for laptop PC connection.(3D5-09, 3D5-12, 3D5-13, 3D5-14)

- 3D5-09[#] CSJ Award for Young Chemists** Functionalization of electrolyte solutions by controlling coordination states (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMADA, Yuki
- 3D5-12** Development of FSA-based ionic liquid electrolytes for potassium-ion batteries (Kyoto Univ.) ○YAMAMOTO, Takayuki; MATSUBARA, Ryohei; MATSUMOTO, Kazuhiko; HAGIWARA, Rika; NOHIRA, Toshiyuki
- 3D5-13** Hydrothermal synthesis and electrochemical characterization of Mn-Ni oxide solid solution electrodes (Fac. Eng., Univ. of Yamanashi; Clean Energy Research Center, Univ. of Yamanashi) ○NIWA, Yuki; INUKAI, Junji; NOHARA, Shinji
- 3D5-14** Fabrication of well-controlled structural MnO₂-based nanotube electrode and evaluation of capacitance characteristics. (Fac. Eng., Univ. of Yamanashi; Clean Energy Research Center, Univ. of Yamanashi) ○TAGUCHI, Toru; INUKAI, Junji; NOHARA, Shinji

Chair: KONDO, Toshihiro (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(3D5-16, 3D5-17, 3D5-18, 3D5-19, 3D5-20, 3D5-21)
- 3D5-16[#]** Can P-Doping of Transition Metal Oxide Cathodes Increase Achievable Voltages of Metal-Ion Batteries with Multivalent Metals? (Dept. of Mech. Eng., Nat. Univ. of Singapore) ○KOCH, Daniel Michael; MANZHOS, Sergei
- 3D5-17** Effects of proton conductivity and leakage for biofuel cell power output (AISIN COSMOS R&D CO.,LTD.) ○NAKAOKI, Yuichiro; ISEZAKI, Yuka; SAWA, Haruo
- 3D5-18** Nitrogen-doped porous carbon as an air cathode catalyst for Mg-air battery (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.) ○TACHIBANA, Naoki; KANAI, Minoru
- 3D5-19** Mechanochemical synthesis and characterization of Li₂WO₄-based oxide glass electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○YONEDA, Youhei; SHIGENO, Manari; NAGAO, Kenji; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 3D5-20** Preparation of amorphous Fe-Li₂SO₄ electrode active materials and their evaluation in oxide-type all-solid-state cells (Grad. Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; ○TOKUNAGA, Shinya; NAGATA, Yuka; NAGAO, Kenji; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro
- 3D5-21** Ion-conducting and mechanical properties for LGPS crystal / Li₃PS₄-LiI glass solid electrolytes composite (Grad. Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; ○ONJI, Tomohiro; NISHIMURA, Masaki; HAYASHI, Akitoshi; TATSUMISAGO, Masahiro

Monday, March 18, PM

Chair: UMEYAMA, Tomokazu (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3D5-29, 3D5-30, 3D5-31, 3D5-32, 3D5-33)
- 3D5-29** Fabrication of Dye-sensitized Solar Cell Using Food Coloring Agent or Toxic Plant (Sch. Sci., Tokai Univ.) ○KOMATSU, Masaharu; ASAMI, Kazuhiko; KATO, Naoki; SHINKUMA, Sei
- 3D5-30** Study on the efficiencies of triplet-triplet annihilation upconversion processes in solid thin films using transient absorption spectroscopy (Grad. Sch. Sci. Eng., Univ. of Toyama; Grad. Sch. Sci. Eng., Univ. of Toyama) SUGISHITA, Rintaro; KAWABERI, Kyouhei; IWAMURA, Munetaka; ○NOZAKI, Koichi
- 3D5-31[#]** Synthesis and characterization of NIR dyes with varying anchoring groups for dye-sensitized solar cells (Grad. Sch. Life Sci. Sys. Eng., KIT) ○VATS, Ajendra Kumar; KAPIL, Gaurav; PANDEY, Shyam S.
- 3D5-32** Synthesis of a Push-Pull Porphyrin Sensitizer with a Thiazolocatechol Anchoring Group for Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.) ○IYAMA, Hitomi; HIGASHINO, Tomohiro; IMAHORI, Hiroshi
- 3D5-33[#]** Development of high efficiency infrared PbS QD/ZnO NW solar cells toward the bottom subcell of multi-junction solar cells (RCAST, The Univ. of Tokyo; Grad. Sch. Sci., The Univ. of Tokyo; KISTEC; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○WANG, Haibin; NAKAO, Shoichiro; KUBO, Takaya; SAITO, Hidenori; MAGAINO, Shinichi; TAKAGI, Katsuhiko; HASEGAWA, Tetsuya; NAKAZAKI, Jotaro; SEGAWA, Hiroshi

Chair: KUBO, Takaya (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(3D5-36, 3D5-37, 3D5-38, 3D5-39, 3D5-40)
- 3D5-36** A-D-A Type Non-fullerene Electron Acceptor with Thienoazacoronene Donor Unit (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○UMEYAMA, Tomokazu; IGARASHI, Kensho; IMAHORI, Hiroshi
- 3D5-37** Organic photovoltaic cells using reduced graphene oxide as a hole-transport layer (Grad. Sch. Eng., Hiroshima Univ.) ○SASAKI, Ayane; OYAMA, Yousuke; IMAE, Ichiro
- 3D5-38[#]** Improving the Efficiency and Reproducibility of Lead-free Perovskite Solar Cells with High Purity Precursors and Modified Solution Process (ICR, Kyoto Univ.) ○LIU, Jiewei; OZAKI, Masashi; YAKUMARU, Shinya; HANDA, Taketo; NISHIKUBO, Ryosuke; KANEMITSU, Yoshihiko; SAEKI, Akinori; MURATA, Yasujiro; MURDEY, Richard; WAKAMIYA, Atsushi
- 3D5-39** Life Detection Microscope for Astrobiology in Solar System (TUT)

- SASAKI, Satoshi; YOSHIMURA, Yoshitaka; YAMAGISHI, Akihiko; ENYA, Keigo; OHNO, Sosuke; MIYAKAWA, Atsuo; FUJITA, Kazuhisa; USUI, Tomohiro

- 3D5-40^{*}** Fabrication of intermediate-band solar cells with PbS quantum dots and perovskites by a solution process (Kao Corp.; RCAST, The Univ. of Tokyo; Grad. Sch. Life Sci. Sys. Eng., KIT) ○OKONOGI, Akinori; HOSOKAWA, Hiroji; TAMAKI, Ryo; SAWADA, Takuya; SATO, Haruyuki; OGOMI, Yuhei; HAYASE, Shuzi; OKADA, Yoshitaka; YANO, Toshihiro

Room D6

Bldg. 3 336

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Saturday, March 16, AM

Simulation

Chair: ISHIDA, Toyokazu (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D6-01, 1D6-02, 1D6-03, 1D6-05, 1D6-06)
- 1D6-01** Layer thickness determination of rock salt-type surface models and stability prediction of lattice oxygen defects using Linear Response Function (Grad. Sch. Sci., Osaka Univ.; RIECEN, AIST) ○MARUYAMA, Tomohiro; OHNARI, Junta; TADA, Kohei; KAWAKAMI, Takasi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka
- 1D6-02** Theoretical study of phase transition temperature in squaric acid crystals using path integral molecular dynamics method (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○ICHIKAWA, Atsuki; TACHIKAWA, Masanori; ISHIMOTO, Takayoshi; OBA, Yuki
- 1D6-03^{*}** Geometric quantum effect on NH₄⁺ - H₂O by using path integral molecular dynamics study (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○KUWAHATA, Kazuaki; TACHIKAWA, Masanori
- 1D6-05** First principles calculations for reaction analysis of ammonia synthesis using YRu₂ intermetallic catalyst (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ONO, Yuki; TADA, Tomofumi; KOBAYASHI, Yasukazu; KITANO, Masaaki; HOSONO, Hideo
- 1D6-06** First principles calculations for surface structures exploration using Genetic Algorithm (Sch. Mater. & Chem. Tech., Tokyo Tech.) ASO, Kagami; ○TADA, Tomofumi

Chair: TACHIKAWA, Masanori (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D6-08, 1D6-10, 1D6-12)
- 1D6-08[#]** Predicting thermodynamic stability of multinary alloy nanoparticle (GREEN, NIMS) ○NAMBA, Yusuke; KOYAMA, Michihisa
- 1D6-10[#]** Phase Stability and Electronic Structure of Bimetallic Pt-M (M = Co, Ni, and Cu) Nanoparticles (GREEN, NIMS) ○RIVERA, David; NAMBA, Yusuke; KOYAMA, Michihisa
- 1D6-12[#]** Advanced non-polarizable force field for ionic liquids based on first-principles DFT calculation: development and the applications to transport properties (Grad. Sch. Eng. Sci., Osaka Univ.) ○ISHII, Yoshiki; ISHIZUKA, Ryosuke; MATUBAYASI, Nobuyuki

Chair: SATO, Hirofumi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D6-15)
- 1D6-15^{*} CSJ Award for Creative Works** Development of Energy-Representation Theory of Solutions and Its Applications to Soft Molecular Aggregates (Grad. Sch. Eng. Sci., Osaka Univ.) ○MATUBAYASI, Nobuyuki

Saturday, March 16, PM

Chair: TAKANO, Yu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1D6-28, 1D6-29, 1D6-30, 1D6-31, 1D6-32, 1D6-33)
- 1D6-28** Self-assembly model of gear-shaped amphiphilic molecules (Sch. Eng., Kyoto Univ.) ○IMAMURA, Kosuke; SATO, Hirofumi
- 1D6-29** MD analysis of the solubility and diffusivity of a hydrophobic solute in a ternary solution with mesoscale inhomogeneity (Grad. Sch. Eng. Sci., Osaka Univ.) ○HARA, Kenta; ISHII, Yoshiki; MATUBAYASI, Nobuyuki
- 1D6-30** Free-energy analysis of adsorption of amino-acid analog to polymer/water interface (Grad. Sch. Eng. Sci., Osaka Univ.) ○YASOSHIMA, Nobuhiro; MATUBAYASI, Nobuyuki
- 1D6-31** All-atom analysis of adsorption onto a variety of crystal faces using MD simulation with explicit solvent (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMAMOTO, Naoki; MATUBAYASI, Nobuyuki
- 1D6-32** Crystal structure exploration of nitrogen-contained polycyclic aromatic compounds and rubrene using Buckingham potentials (Sci. Eng., The Univ. of Electro-Communications; Grad. Sch. Sci. Eng., The Univ. of Electro-

Communications) ○KATAOKA, Ryoma; ITO, Ryo; YAMAKITA, Yoshihiro

- 1D6-33** Improvement of Predictive Accuracy of QSAR Models Using Docking Simulation (Sch. Sci. Eng., Meiji Univ.) ○EBI, Tomoya; KANEKO, Hiromasa

Materials

Chair: GOTO, Hitoshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1D6-35, 1D6-36, 1D6-37, 1D6-38, 1D6-39)
- 1D6-35** Accelerating the molecular dynamics simulation of forming smectic A phase by controlling intermolecular forces (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SASAKI, Ryoma; HAYASHI, Yoshihiro; KAWAUCHI, Susumu
- 1D6-36** Theoretical investigation on spinel sodium titanate by density functional theory calculations (RIECEN, AIST) ○TADA, Kohei; KITTA, Mitsunori; OZAKI, Hiroyuki; TANAKA, Shingo
- 1D6-37** Construction of highly accurate property estimation models considering their interpretability (Dept. of Sci. Tech., Meiji Univ.) ○SHIMIZU, Naoto; KANEKO, Hiromasa
- 1D6-38** Exploration of New Hydrocarbon Structures: PAH Dimers (Grad. Sch. Sci., Tohoku Univ.) ○OHNO, Koichi; SATOH, Hiroko; IWAMOTO, Takeaki
- 1D6-39*** Orbital Phase Theory for Goodenough-Kanamori-Anderson Rules in Superexchange Interaction (Fac. Eng., Gifu Univ.; Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○NARUSE, Yuji

Electronic Structure

Chair: YANAI, Takeshi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1D6-42, 1D6-43, 1D6-45, 1D6-46, 1D6-47)
- 1D6-42** Method Development using the Long-Range Corrected Density-Functional Tight-Binding Method (FIFC, Kyoto Univ.) ○NISHIMOTO, Yoshio
- 1D6-43**** Polynomial Expression of one center molecular integrals over STOs for algebraic molecular orbital equation (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○JUN, Yasui
- 1D6-45** Development of single-reference-type static-correlation method for large systems (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○DOI, Toshiki; YOSHIKAWA, Takeshi; NAKAI, Hiromi
- 1D6-46** Development of the post-Hartree-Fock correlation model using machine learning (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NUDEJIMA, Takuro; IKABATA, Yasuhiro; SEINO, Junji; YOSHIKAWA, Takeshi; KAGEYAMA, Ryo; NAKAI, Hiromi
- 1D6-47*** Electro-protonic dynamics in CH₃OH in an intense laser field by the extended multiconfiguration time-dependent Hartree-Fock method (Grad. Sch. Sci., The Univ. of Tokyo) ○KIMURA, Ryuto; KATO, Tsuyoshi; YAMANOUCHI, Kaoru

Sunday, March 17, PM

Chair: HARUTA, Naoki (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2D6-26, 2D6-28, 2D6-29, 2D6-30, 2D6-31)
- 2D6-26*** Theoretical study on the intermolecular interactions and optical response properties of slipped-stacked molecular crystals composed of open-shell molecules (Grad. Sch. Eng. Sci., Osaka Univ.) ○KISHI, Ryohei; KAMADA, Kenji; KUBO, Takashi; NAKANO, Masayoshi
- 2D6-28** Quantum chemical calculations of open shell molecules on quantum computers: Extension of spin coordinate mapping (Grad. Sch. Sci., Osaka City Univ.) ○SUGISAKI, Kenji; NAKAZAWA, Shigeaki; TOYOTA, Kazuo; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji
- 2D6-29** Theoretical Analysis of the Role of Delocalized Electrons in the Effects of Electrostatic Environment on the Zundel-type Hydrated Proton (Fac. Eng., Shizuoka Univ.) ○TORII, Hajime
- 2D6-30** Theoretical investigation on the direction changes of dipole moment functions following the OH group stretch vibration in hydrogen bond complexes ROH...Y (Grad. Sch. Sci. Tech., Keio Univ.) ○SHUNKI, Furudate; KUGAYA, Yuto; YABUSHITA, Satoshi
- 2D6-31** Development of a hybrid solvation model based on CASSCF wave function (Sch. Sci., Nagoya Univ.) ○YOSHIKAWA, Ayaka; SAITOW, Masaaki; YANAI, Takeshi

Chemical Information

Chair: SUGIMOTO, Manabu (14 : 20~15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(2D6-33, 2D6-34, 2D6-36)
- 2D6-33** Development of surface model calculation database and evaluation of catalytic activity for methane steam reforming (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ONODA, Haruka; KURODA, Yusuke; KOBAYASHI, Masato; TAKETSUGU, Tetsuya

Mathematical Chemistry

- 2D6-34*** Visualization of intrinsic reaction coordinate and global reaction route network based on multidimensional data reduction method (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○TSUTSUMI, Takuro; ONO, Yuriko; ARAI, Zin; TAKETSUGU, Tetsuya
- 2D6-36**** Anomalous Orbital Degeneracy in Metal Clusters and Its Symmetrical Origin (IIR, Tokyo Tech.; ERATO, JST) ○HARUTA, Naoki; TSUKAMOTO, Takamasa; KUZUME, Akiyoshi; KAMBE, Tetsuya; YAMAMOTO, Kimihisa

Bio-related

Chair: SUGISAKI, Kenji (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(2D6-39, 2D6-40, 2D6-42)
- 2D6-39** Coordinate transformation in normal mode analysis (Sch. Eng., Kyoto Univ.) ○TAKENO, Suguru; YAGI, Tomoaki; SATO, Hirofumi
- 2D6-40*** QM/MM study on the role of Ca in the oxygen-evolving complex of photosystem II (CCS, Univ. of Tsukuba) ○SHOJI, Mitsuo; ISOBE, Hiroshi; SHIGETA, Yasuteru; NAKAJIMA, Takahito; YAMAGUCHI, Kizashi
- 2D6-42**** Computational analysis of carbohydrate recognition based on hybrid QM/MM approach (CD-FMat, AIST) ○ISHIDA, Toyokazu

Chemical Reaction

Chair: OKUMURA, Mitutaka (16 : 20~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(2D6-45, 2D6-46, 2D6-47, 2D6-49)
- 2D6-45** Analysis of epitaxial growth mechanism of Si(100) surfaces by quantum chemical calculations (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○HAGINO, Sho; KUNIOSHI, Nilson; FUWA, Akio; YAMAGUCHI, Katsunori
- 2D6-46** Analysis of Si(100) surface etching mechanism by reactions with HCl through quantum chemical calculations (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○FUJIMURA, Yoshiki; KUNIOSHI, Nilson; FUWA, Akio; YAMAGUCHI, Katsunori
- 2D6-47**** On the contribution of N=B=N³⁻ anion and N³⁻ anion to stability of Mg₃BN₃ in the air (IPEJ) ○HIRAGUCHI, Hideo
- 2D6-49*** Real-time trace of coordination self-assembly by a master-equation-based stochastic approach (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKAHASHI, Satoshi; SASAKI, Yuya; SATO, Hirofumi; HIRAOKA, Shuichi

Functions of Materials

Monday, March 18, PM

Chair: KITAYAMA, Yukiya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3D6-28, 3D6-30, 3D6-31, 3D6-32, 3D6-33)
- 3D6-28*** Analysis of metal sorption properties of hexacyanoferrate nanoparticles for separation and recovery of platinum group metals and Mo in High-level radioactive liquid waste (Grad. Sch. Eng., Nagoya Univ.) ○WATANABE, Shinta; INABA, Yusuke; MISHIMA, Ria; HARIGAI, Miki; NAKAYA, Masato; TAKESHITA, Kenji; ONOE, Jun
- 3D6-30** Study on dynamic adsorption behaviors of metal scavenger using DualPore silica aiming to remove of metals to ppt level (DPS Inc.) BAI, Hongzhi; ○MIYAMOTO, Riichi
- 3D6-31** Fabrication and evaluation of titanate nanowire having Sr adsorption property (Grad. Sch. Sci. Technol., Shinshu Univ.; WPI-AIMR, Tohoku Univ.) ○SAITO, Teppei; AKAGI, Kazuto; NAKAYAMA, Koji; ADSCHIRI, Tadafumi; ASAO, Naoki
- 3D6-32** Control of Calcium Phosphate Formation by the Inner Space and Surface of Liposome (Grad. Sch. Sci., Kyushu Univ.) ○MAEDA, Michiko; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 3D6-33** Fabrication of Crosslinked Oriented Collagen Films with Surface Relief Template (Lab. Chem. Life Sci., Tokyo Tech.) ○HINO, Terumine; AIZAWA, Miho; AKAMATSU, Norihisa; SHISHIDO, Atsushi

Chair: KOSHIYAMA, Tomomi (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(3D6-35, 3D6-37, 3D6-38, 3D6-39)
- 3D6-35*** Molecularly Imprinted Nanogels Containing Au Nanoparticles for Radiation Therapy (Grad. Sch. Eng., Kobe Univ.) ○KITAYAMA, Yukiya; YAMADA, Takuya; KIGUCHI, Kentaro; YOSHIDA, Aoi; AKASAKA, Hiroaki; NISHIMURA, Yuya; IGARASHI, Kazunori; MATSUMOTO, Yu; SASAKI, Ryohei; TAKEUCHI, Toshifumi
- 3D6-37*** Development of Light Stimulation Responsive Drug Eluting Balloon (Grad. Sch. Eng., The Univ. of Tokyo) ○MIZUNO, Hayato Laurence; ANRAKU, Yasutaka; SAKUMA, Ichiro; YUKI, Akagi
- 3D6-38*** Design, synthesis, temperature dependent self-assembly of azartermisinins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Showa Pharm. Univ.) ○KOI, Hikari; TAKAHASHI, Norihito; FUCHI,

Yasufumi; KARASAWA, Satoru; OGURI, Hiroki

3D6-39 Preparation of water-soluble NO radicals introducing polar substituents and evaluation of their water proton relaxivity (Grad. Sch. Pharm., Kyushu Univ.) ○SHIRAIISHI, Ryoma; MATSUOKA, Yuta; FUCHI, Yasufumi; NAGANUMA, Tatsuya; YAMADA, Ken-ichi; KARASAWA, Satoru

Chair: SHISHIDO, Atsushi (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(3D6-41, 3D6-42, 3D6-43, 3D6-44, 3D6-45, 3D6-46)

3D6-41 Preparation of cellulose based composites with alumina particles and surface characterization by zeta potential measurement (ITCO; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NIGO, Hideyuki; TSUNESADA, Takeshi; TSUTSUMI, Hiromori

3D6-42 Photo-response of photosystem I and Au nanoparticle modified graphene FET (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Fac. Sci., TUS) ○MIYACHI, Mariko; NISHIORI, Daiki; ZHU, Wenchao; SALLES, Raphaël; YAMANOI, Yoshinori; IKUTA, Takashi; MAEHASHI, Kenzo; TOMO, Tatsuya; NISHIHARA, Hiroshi

3D6-43[#] Photo-response and characterization of stacking layer nanosheet composed of photosystem I and platinum nanoparticles (Grad. Sch. Sci., The Univ. of Tokyo; Fac. Sci., TUS) ○ZHU, Wenchao; SALLES, Raphaël; MIYACHI, Mariko; YAMANOI, Yoshinori; TOMO, Tatsuya; NISHIHARA, Hiroshi

3D6-44 Dynamic nuclear polarization in water using photo-excited triplet electrons (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○NISHIMURA, Koki; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; YANAI, Nobuhiro; KIMIZUKA, Nobuo

3D6-45 Fabrication of novel organic-inorganic perovskites using π -conjugated polymers (V)-Effect of Mixing halides- (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SHIMIZU, Shunsuke; FUJITA, Masahiro; KUNUGITA, Hideyuki; EMA, Kazuhiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

3D6-46 Synthesis and photocatalytic functions of chiral titanium oxide (Grad. Sch. Eng., Kanagawa Univ.) ○TAKITA, Moemi; JIN, Ren-hua

Chair: MAENOSONO, Shinya (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(3D6-48, 3D6-49, 3D6-50, 3D6-51, 3D6-52)

3D6-48 Coloring and emission behavior of luminescent leuco dye introduced into mesoporous silica (Fac. Eng., Chiba Univ.) ○YNETOKU, Yuki; MIURA, Yuka; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

3D6-49 Photo-controlled interlayer spaces of a novel polyfuluoroalkyl azobenzene/niobate layered hybrid (Fac. Eng., Univ. of Miyazaki) ○NABETANI, Yu; TANAKA, Bunpei; KITAGAWA, Kodai; SHIRAGAMI, Tsutomu

3D6-50 Evaluation of Adsorption Behavior of Cationic Porphyrin to Titaniananosheet (Fac. Urban Env. Sci., TMU) ○HIRADE, Yugo; SANO, Keito; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke

3D6-51 Luminescence Properties of Iridium(III) Complexes Adsorbed by Clay Minerals (Grad. Sch. Sci., Eng., Ehime Univ.) ○TAKIMOTO, Kazuyoshi; JINSENJI, Yoshiki; WATANABE, Yutaka; SATO, Hisako

3D6-52[#] Photoluminescence properties of surface-modified carbon dots by organoalkoxysilane for solid-state emitting device (Sch. Eng., The Univ. of Shiga Pref.) ○SUZUKI, Kazumasa; MALFATTI, Luca; TAKAHASHI, Masahide; MIYAMURA, Hiroshi; JEYADEVAN, Balachandran

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Tuesday, March 19, AM

Chemical Reactions

Chair: TAKAHASHI, Satoshi (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(4D6-01, 4D6-02, 4D6-03, 4D6-04, 4D6-05)

4D6-01 Theoretical Study on Steric Control of Sulfide-Urea Catalyzed Asymmetric Bromolactonization Reaction (Grad. Sch. Sci., Rikkyo Univ.) ○KANEKO, Kazuma; MOCHIZUKI, Ayaka; NISHIYORI, Ryuichi; TSUCHIHASHI, Ayano; SHIRAKAWA, Seiji; YAMANAKA, Masahiro

4D6-02 Analysis of the Relativistic Effect on a Cationic Iridium Catalyst in the C-H Bond Activation of Benzanilides (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKASHIMA, Chinami; IKABATA, Yasuhiro; KURITA, Hisaki; TAKANO, Hideaki; SHIBATA, Takanori; NAKAI, Hiromi

4D6-03 Analysis of a proton transfer reaction in a Pt complex system by using the DFTB-RPMD method (Sch. Eng., Kyoto Univ.) ○OSHIKI, Jun; KOSUGI, Kento; NAKANO, Hiroshi; SATO, Hirohumi

4D6-04[#] Theoretical study of uranium isotope fractionation in the biotic reduction from U(VI) to U(IV) (Grad. Sch. Sci., TMU; Grad. Sch. Sci., TMU) ○SATO, Ataru; ABE, Minoru; HADA, Masahiko

4D6-05 Quantitative assessment of semiempirical molecular orbital methods (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○SAITO, Toru; TAKANO, Yu

Chair: SAITO, Toru (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(4D6-07, 4D6-09, 4D6-10, 4D6-11)

4D6-07[#] Cation Affinities throughout the Periodic Table (Fac. Sci., Vrije Univ. of Amsterdam) ○BOUGHLALA, Zakaria; FONSECA GUERRA, Celia; BICKELHAUPT, F Matthias

4D6-09[#] Mechanochemical Selective Activation in Competing Chitin Hydrolysis Reactions (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Inst. for Cat., Hokkaido Univ.) ○DE CHAVEZ, Danjo; FUKUOKA, Atsushi; HASEGAWA, Jun-ya

4D6-10 Computational approach to the mechanism of synthesis of point-fluorinated cycloalkenes with the Grubbs catalyst: Effect of the benzyl group on the energy of the Grubbs intermediate (Grad. Sch. Eng., Tottori Univ.) ○HAYASE, Shuichi; NOKAMI, Toshiki; ITOH, Toshiyuki

4D6-11 Theoretical study of catalytic H₂ oxidation by a half-sandwich iridium complex H (Grad. Sch. Eng., Kyushu Univ.; IMCE, Kyushu Univ.; I₂CNER, Kyushu Univ.; Center for Small Molecule Energy, Kyushu Univ.) ○IKEDA, Kei; HORI, Yuta; SHIOTA, Yoshihito; MUHAMMAD HARIS, Mahyuddin; STAYKOV, Aleksandar; MATSUMOTO, Takahiro; YOSHIZAWA, Kazunari; OGO, Seiji

Chair: TORII, Hajime (11 : 00~12 : 00)

* 10:50-11:00: interval for laptop PC connection.(4D6-13)

4D6-13 CSJ Award for Creative Works Ab initio elucidation of electronically-excited reaction processes and dynamics (Fac. Sci., Hokkaido Univ.) ○TAKETSUGU, Tetsuya

Room D7

Bldg. 3 337

Functions of Materials

Saturday, March 16, AM

Chair: TSUKAMOTO, Takamasa (10 : 30~11 : 30)

* 10:20-10:30: interval for laptop PC connection.(1D7-10, 1D7-11, 1D7-12, 1D7-13, 1D7-14)

1D7-10 Chemical synthesis of Cu-Fe-S nanoparticles toward sustainable thermoelectric materials (Sch. Mat. Sci., JAIST) ○NUMANO, Kimihiro; SINGH, Maninder; NAKADA, Takeshi; DWIVEDI, Pratibha; OHTA, Michihiro; MIWA, Hiroshi; AKATSUKA, Takeo; MAENOSONO, Shinya

1D7-11 Versatile Synthesis and Thermoelectric Performance of Nickel Coordination Polymers (Fac. Eng., OIT) ○UEDA, Kazuki; TOYAMA, Nana; OKU, Mika; MURAOKA, Masahiro; MURATA, Michihisa

1D7-12 Sustainable thermoelectric materials fabricated by using chemically synthesized tetrahedrite nanoparticles as building blocks (Sch. Mat. Sci., JAIST) ○NAKADA, Takeshi; SHIJIMAYA, Chiko; HIGASHIMINE, Koichi; TAKAHASHI, Mari; ZHOU, Wei; DWIVEDI, Pratibha; OHTA, Michihiro; TAKIDA, Hiroshi; AKATSUKA, Takeo; MIYATA, Masanobu; MAENOSONO, Shinya

1D7-13 Synthesis and photoelectrochemical properties of Au@CdSe core-shell nanoparticles (Kindai Univ.) ○KAWANO, Seina; FUJISHIMA, Musashi; TADA, Hiroaki

1D7-14[#] Structure-property relations in thermoelectric nanobulk materials fabricated from Cu₂Sn_{1-x}Zn_xS₃ nanoparticles (Sch. Mat. Sci., JAIST) ○ZHOU, Wei; DWIVEDI, Pratibha; HIGASHIMINE, Koichi; MIYATA, Masanobu; OHTA, Michihiro; TAKIDA, Hiroshi; AKATSUKA, Takeo; MAENOSONO, Shinya

Chair: IMAOKA, Takane (11 : 40~12 : 20)

* 11:30-11:40: interval for laptop PC connection.(1D7-17, 1D7-19, 1D7-20)

1D7-17[#] Chemical Synthesis of Cu-Al-Sn-S Nanocrystals toward Sustainable Thermoelectric Materials (Sch. Mat. Sci., JAIST) ○DWIVEDI, Pratibha; ZHOU, Wei; OHTA, Michihiro; MIYATA, Masanobu; MIWA, Hiroshi; AKATSUKA, Takeo; MAENOSONO, Shinya

1D7-19[#] Pressure evolution of Sm valence in (Sm_{1-x}Ca_x)_{2.75}C₆₀ fullerides (Sch. Eng., Osaka Pref. Univ.) ○YOSHIKANE, Naoya; PRASSIDES, Kosmas

1D7-20[#] Control of the zero-bias photocurrent direction induced by bulk-photovoltaic-effect and the polarity-chirality coupling in two-dimensional lead (II) iodide perovskites (IMR, Tohoku Univ.) ○HUANG, Po-jung; TANIGUCHI, Kouji; MIYASAKA, Hitoshi

Saturday, March 16, PM

Chair: KITAGAWA, Daichi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1D7-28, 1D7-29, 1D7-30, 1D7-32, 1D7-33)

1D7-28 Electrochromic Property of the Photochromic Phenoxyl-Imidazolyl Radical Complexes (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YAMAMOTO, Katsuya; MUTOH, Katsuya; ABE, Jiro

1D7-29 Spectroelectrochemistry of Negative Photochromic Binaphthyl-Bridged

- Radical Complex (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ARAI, Kaho; MUTOH, Katsuya; ABE, Jiro
- 1D7-30*** Mechanism Study of Thermosensitive Effect of an Alkenyl Gold Isocyanide Complex (Grad. Sch. Eng., Hokkaido Univ.) ○SEKI, Tomohiro; MASHIMO, Takaki; ITO, Hajime
- 1D7-32** Optimization of a Red-color fluorescent photoswitchable system toward the full-color fluorescence modulation (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○SIDA, Sanae; KIM, Sunnam; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi
- 1D7-33** Visible light photochromism of a perylenebisimide-diarylethene dyad (Fac. Eng., Kumamoto Univ.) ○IKARIKO, Issei; HIGASHIGUCHI, Kenji; HIROSE, Takashi; SOTOME, Hikaru; KIM, Sunnam; MATSUDA, Kenji; MIYASAKA, Hiroshi; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi

Chair: FUKAMINATO, Tsuyoshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1D7-35, 1D7-36, 1D7-37, 1D7-39, 1D7-40)
- 1D7-35** Control of the Biradical Character of the Open-ring Isomer of Photochromic Pentaarylimidazole by Changing Aromaticity of the Bridging Unit (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○NISHIJIMA, Moe; MUTOH, Katsuya; ABE, Jiro
- 1D7-36** Turn-On Mode Fluorescence Switching Using a Negative Photochromic Binaphthyl-Bridged Imidazole Dimer. (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MIYASHITA, Nanae; MUTOH, Katsuya; ABE, Jiro
- 1D7-37*** Substituent Effect on Photoresponsive Properties of Fluorescent Diarylethene Derivatives (Coll. Sci., Rikkyo Univ.) ○MORIMOTO, Masakazu; TAKASU, Shoya; IWAI, Ryota; IRIE, Masahiro
- 1D7-39** Photochromic reaction of spironaphthooxazine nanoparticles by femtosecond pulse excitation. (Grad. Sch. Sci., Eng., Ehime Univ.) ○NISHIMOTO, Atsushi; OGURA, Yumi; ISHIBASHI, Yukihide; ASahi, Tsuyoshi
- 1D7-40** How using polarized light affects photomechanical crystal deformation of diarylethenes (Grad. Sch. Eng., Osaka City Univ.) ○HIRANO, Akira; KITAGAWA, Daichi; KOBATAKE, Seiya

Chair: MUTOH, Katsuya (15 : 50~17 : 00)

- * 15:40-15:50: interval for laptop PC connection.(1D7-42, 1D7-43, 1D7-45, 1D7-46, 1D7-47, 1D7-48)
- 1D7-42** Photochromism and fast thermal bleaching reaction behavior of diarylbenzene derivatives (Grad. Sch. Eng., Osaka City Univ.) ○NAKAHAMA, Tatsumoto; KITAGAWA, Daichoi; NAKAI, Yoshihiro; KOBATAKE, Seiya
- 1D7-43**** Architecture of Chiral silica-based circularly polarized luminescent system (Grad. Sch. Eng., Kanagawa Univ.) ○TSUNEGA, Seiji; NAKASHIMA, Takuya; KAWAI, Tsuyoshi; JIN, Ren-hua
- 1D7-45** Mechanochemical synthesis of long-afterglow phosphors based on Eu^{2+} , Dy^{3+} doped SrAl_2O_4 (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; OKUSAKABE, Fumiya; MATSUKI, Yuma; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 1D7-46** Development of Flexible Mechanophores for Single-Molecule Fluorescence Spectroscopy (Dep. Chem., Sch. Sci., Kyoto Univ.; Sch. Mater. & Chem. Tech., Tokyo Tech.; PRESTO, JST) ○YAMAKADO, Takuya; GOTO, Yuma; VACHA, Martin; SAITO, Shohei; OSUKA, Atsuhiko
- 1D7-47** Deep blue phosphorescent iridium complexes based on Phenyltriazole Groups as Luminescent Ligands (Grad. Sch. Sci., Josai Univ.; IRC3, AIST) ○WAKATSUKI, Daisuke; HASHIMOTO, Masashi; KONNO, Hideo; KOIKE, Kazuhide
- 1D7-48** Electrochemical emission modulation of functional clay film incorporating Eu(III) complex and electrochromic molecules. (Fac. Eng., Chiba Univ.) ○KOBAYASHI, Naoto; YANAGAWA, Namiko; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Sunday, March 17, AM

Chair: YANAI, Nobuhiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2D7-01, 2D7-03, 2D7-05, 2D7-06)
- 2D7-01*** Theoretical Study on the Aggregation Induced Emission of Tetraphenylethylene (Chiba Inst. of Tech.) ○YAMAMOTO, Norifumi
- 2D7-03*** Near Infrared Photoluminescent Nanomaterials with Wavelength Tunable Functions Based on Chemical Reactions on Single-walled Carbon Nanotubes (Grad. Sch. Eng., Kyushu Univ.) ○SHIRAKI, Tomohiro; SHIGA, Tamehito; NAKASHIMA, Naotoshi; FUJIGAYA, Tsuyohiko
- 2D7-05** Hybridization of Eu(III) complex having helical ligand with hydrophobized DNA and its photophysical properties (Fac. Eng., Chiba Univ.) ○MATSUDA, Kento; MANO, Akane; NAKAMURA, Kazuki; HASEGAWA, Miki; KOBAYASHI, Norihisa
- 2D7-06** Introduction of ethidium bromide molecule into highly oriented DNA film fabricated by electrostatic stretching method and its electro-photo functions (Fac. Eng., Chiba Univ.) ○CHIJIMATSU, Reo; MIYAZAKI, Tsukasa; NAKAMURA, Kazuki; KOBAYASHI, Norihisa

Chair: SHIRAKI, Tomohiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2D7-08, 2D7-09, 2D7-10, 2D7-11, 2D7-12)

- 2D7-08** Synthesis and Emitting Behaviors of a Novel Amorphous Molecular Material Possessing a Cyanostyrylbenzene Moiety (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○MORI, Kensuke; KANEKO, Ryohei; SAGARA, Yoshimitsu; TAMAOKI, Nobuyuki; NAKANO, Hideyuki
- 2D7-09** Photoluminescence Properties of Phenylene-Linked Dinuclear Organoplatinum(II) Complexes (Grad. Sch. Eng., Osaka Pref. Univ.) ○HOTELI, Junichi; YAMASHITA, Kouhei; MAEDA, Takeshi; YAGI, Shigeyuki
- 2D7-10** Energy collection strategy in solid film systems for efficient near infrared-to-visible photon upconversion (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○KINOSHITA, Mika; SASAKI, Yoichi; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2D7-11** Controlling excited energy levels of emitter molecules for efficient photon upconversion (Fac. Eng., Kyushu Univ.; Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.) ○HARADA, Naoyuki; SASAKI, Yoichi; YANAI, Nobuhiro; KIMIZUKA, Nobuo
- 2D7-12**** Highly efficient photon upconversion based on the control of dimensional nanostructures in chromophoric ionic liquids (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; Grad. Sch. Eng., Kyushu Univ.) ○HISAMITSU, Shota; SHIMIZU, Karina; LOPES, José Nuno Canongia; MAGOME, Eisuke; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Chair: SOTOME, Hikaru (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2D7-15, 2D7-16, 2D7-18)
- 2D7-15** Effects of Alkyl Chain Length on Luminescence Behavior of Gold(I) Complexes Based on Aliphatic Cyclic Hydrocarbons (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○OZAKI, Kazuhisa; HISANO, Kyohei; TSUTSUMI, Osamu
- 2D7-16*** Molecular orientation of diphenylanthracene derivatives vacuum-deposited on in-plane oriented polythiophene films (EPRI, AIST) KANESAKA, Aoba; ○MIZOKURO, Toshiko; MIYADERA, Tetsuhiko; KOGANEZAWA, Tomoyuki; KOBAYASHI, Kenji; KAMADA, Kenji; NISHIKAWA, Hiroyuki; AZUMI, Reiko
- 2D7-18*** CSJ Award for Young Chemists Creation of molecular assemblies showing photon upconversion (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○YANAI, Nobuhiro

Sunday, March 17, PM

Chair: KOBAYASHI, Yoichi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2D7-28, 2D7-30, 2D7-32, 2D7-33)
- 2D7-28**** 6π electrocyclic reaction dynamics of a dithiazolylarylene derivative (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGASAKA, Tatsuhiko; SEI, Ryosuke; SOTOME, Hikaru; KAWAI, Tsuyoshi; MIYASAKA, Hiroshi
- 2D7-30**** Selective and reversible photoregulation of myosin motility in kinesin-myosin composite motility assay using myosin selective Azo-triphosphate (RIES, Hokkaido Univ.; Grad. Sch. Life Sci., Hokkaido Univ.) ○ISLAM, Md. Jahurul; MATSUO, Kazuya; MENEZES, Halley M.; TAMAOKI, Nobuyuki
- 2D7-32** Photochromism of Si-Bridged Bis(imidazole dimer) (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TANAKA, Sho; MUTOH, Katsuya; ABE, Jiro
- 2D7-33** Rational Molecular Design for Modulating the Thermal Back Reaction Rate of Naphthopyrans (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○KUROIWA, Hayato; INAGAKI, Yuki; MUTOH, Katsuya; ABE, Jiro

Chair: ISHIBASHI, Yukihide (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2D7-35, 2D7-36, 2D7-37, 2D7-38, 2D7-39, 2D7-40)
- 2D7-35** Fluorescence on/off switching of hyper-branched polymers with diarylethene in branching point (Grad. Sch. Eng., Osaka City Univ.) ○SHIMIZU, Katsuya; RÉMI, Métivier; ARNAUD, Brosseau; KOBATAKE, Seiya
- 2D7-36** Synthesis and Optical Properties of Phenothiazine Based Photochromic Radicals Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○USUI, Ryosuke; MUTOH, Katsuya; ABE, Jiro; KOBAYASHI, Yoichi
- 2D7-37*** Bacteriorhodopsin and Proteorhodopsin analogues: Substitution of retinal by azobenzene chromophores (RIES, Hokkaido Univ.) ○HAQUE, Shariful; KIKUKAWA, Takashi; TAMAOKI, Nobuyuki
- 2D7-38** Crystalline photochromism of diarylethene derivatives having trimethylsilylphenyl groups (Fac. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; JASRI; Grad. Sch. Sci., Eng., Tokyo Tech.; Sch. Pharm., TUPLS; RIKEN) ○NAGAI, Akira; HATANNO, Eri; MORIMOTO, Masakazu; YASUDA, Nobuhiro; SEKINE, Akiko; HYODO, Kengo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2D7-39** Excitation Wavelength- and Intensity-Dependent Coloration of Hetero-Type Binaphthopyrans (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○INAGAKI, Yuki; MUTOH, Katsuya; ABE, Jiro
- 2D7-40** Development of Red-Light Responsive Negative Photochromic Binaphthyl-Bridged Imidazole Dimer (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KOMETANI, Aya; MUTOH, Katsuya; ABE, Jiro

Chair: HIGASHIGUCHI, Kenji (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2D7-42, 2D7-43, 2D7-44, 2D7-45, 2D7-46, 2D7-47)

2D7-42 Spacer length dependence on the cooperative orientation of a fluorescent dye doped in azobenzene liquid crystalline polymers (Fac. Eng., Kumamoto Univ.) ○KATO, Tomoe; KIM, Sunnam; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi

2D7-43 Near-infrared fluorescence photoswitching based on the modulation of energy transfer pathway along with the photochromic reaction (Fac. Eng., Kumamoto Univ.) ○YAMASAKI, Shinya; KIM, Sunnam; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi

2D7-44 Photoinduced Motions of Azobenzene-based Photochromic Molecular Glasses in Agar Gel (Grad. Sch. of Eng., Muroran Inst. of Tech.)

○UKAI, Hiroyasu; ICHIKAWA, Ryota; KITANO, Ayame; NAKANO, Hideyuki

2D7-45[#] Phase transition and mechanical motion of a salicylideneamine crystal induced by heat and light (Sch. Advanced Sci. Eng., Waseda Univ.)

○HAGIWARA, Yuki; TANIGUCHI, Takuya; ASahi, Toru; KOSHIMA, Hideko

2D7-46 Excited-State Dynamics of Phenoxy-Imidazolyl Radical Complex with a Perylene Unit (Coll. Sci. Eng., Aoyama Gakuin Univ.; Lille Univ.)

○TOKUNAGA, Ayako; MUTOH, Katsuya; URIARTE, Lucas Martinez; SLIWA, Michel; ABE, Jiro

2D7-47 Red-Light-Induced Fast Photochromic Reaction of Phenoxy-Imidazolyl Radical Complex Combined with an aza-BODIPY Unit (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MATSUURA, Keiki; MUTOH, Katsuya; ABE, Jiro

Asian International Symposium - Photochemistry -

Monday, March 18, PM

Chair: Kobayashi, Yoichi (13 : 00~15 : 00)

3D7-25[#] Opening Remarks / Closing Remarks Opening Remarks (Ritsumeikan Univ.) ○Kobayashi, Yoichi (13:00~13:10)

3D7-26[#] Keynote Lecture Multimodal Biophotonics of Semiconducting Polymer Nanoparticles (Nanyang Technological Univ.) ○Pu, Kanyi (13:10~13:40)

3D7-29[#] Invited Lecture Long-Lived Emission from Organic Molecules (Kyushu Univ.) ○Kabe, Ryota (13:40~14:00)

3D7-31[#] Invited Lecture Eliciting Unique Optical and Electronic Properties from Simple π -Systems (National Inst. for Materials Science) ○Takai, Atsuro (14:00~14:20)

3D7-33[#] Invited Lecture Fluorescent Flapping Mechanophore: Activation Accompanied by Void Collapse in a Crystalline Phase (Kyoto Univ.)

○Yamakado, Takuya (14:20~14:40)

3D7-35[#] Invited Lecture Highly Luminescent and Thermo-Sensitive Seven-Coordinate Tb(III) Complexes (Hokkaido Univ.) ○Rosa Pedro Paulo, Ferreira da (14:40~15:00)

Chair: Hatano, Sayaka (15 : 10~16 : 00)

3D7-38[#] Keynote Lecture Photo and Electro-Responsive Supramolecular System from the Ionic Assembly of Polyoxometalates and Cationic Molecules (Jilin Univ.) ○Li, Wen (15:10~15:40)

3D7-41[#] Invited Lecture Continuous Mechanical Motion of Layered Self-Assembly of Azobenzene Derivatives under Photo Stationary State (Hokkaido Univ.) ○Kageyama, Yoshiyuki (15:40~16:00)

Chair: Nishi, Hiroyasu (16 : 10~17 : 00)

3D7-44[#] Keynote Lecture Peptide Encoded Gigantic Chirality Evolution in 3D Plasmonic Helicoids (Pohang Univ. of Science and Technology)

○Rho, Junsuk (16:10~16:40)

3D7-47[#] Invited Lecture Organization of Silver Nanoplates on a Substrate for Sensing Applications (Kyushu Univ.) ○Takahashi, Yukina (16:40~17:00)

Chair: Fukuhara, Gaku (17 : 00~17 : 10)

3D7-49[#] Opening Remarks / Closing Remarks Closing Remarks (Tokyo Inst. of Technology) ○Fukuhara, Gaku (17:00~17:10)

Functions of Materials

Tuesday, March 19, AM

Chair: SOTOME, Hikaru (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4D7-01, 4D7-02, 4D7-04, 4D7-05, 4D7-06)

4D7-01 The formation of a rearranged diarylethene derivative during the synthesis of diarylperfluorocyclohexene. (Fac. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; Sch. Pharm., TUPLS; RIKEN RINC)

○ONIZUKA, Riri; HATANO, Eri; HISHIDA, Tatsuya; FUJIMOTO, Ayako; MORIMOTO, Masakazu; HYODO, Kengo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo

4D7-02* Theoretical Study on Structural Rearrangement of Cyclohexene Ring

to Cyclopentene Ring During the Synthesis of Photochromic Diarylethenes (RIKEN RINC; Fac. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; Sch. Pharm., TUPLS) ○OKUDE, Shin'ichiro; ONIZUKA, Riri; SAKAMOTO, Yuki; HATANO, Eri; HISHIDA, Tatsuya; FUJIMOTO, Ayako; MORIMOTO, Masakazu; YOKOJIMA, Satoshi; UCHIDA, Kingo; NAKAMURA, Shinichiro

4D7-04 Synthesis of Photo-Induced Lewis Acid Generators Based on Photochromic Terylene (Grad. Sch. Mat. Sci., NAIST) ○MIZUTSU, Ryo; YAMADA, Miku; YAMADA, Mihoko; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

4D7-05 Synthesis and photo- and electrochemical-isomerization property of terarylene 7-mer based on β -cyclodextrine. (Grad. Sch. Mat. Sci., NAIST) ○NISHI, Daichi; MEAISONNEUVE, Stéphane; XIE, Juan; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

4D7-06 Photosensitive effect of diarylethene crystals of thiazoyl and thienyl derivatives (Fac. Sci. Tech., Ryukoku Univ.; Coll. Sci., Rikkyo Univ.; TUPLS; RIKEN) ○NAKAGAWA, Yuma; MORIMOTO, Masakazu; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo

Chair: NAKASHIMA, Takuya (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4D7-08, 4D7-10, 4D7-11, 4D7-12, 4D7-13)

4D7-08* High-Order Control of the Two-Photon Cycloreversion Reaction of a Diarylethene Derivative Using Vibrational Degrees of Freedom (Grad. Sch. Eng. Sci., Osaka Univ.) ○SOTOME, Hikaru; TACHII, Yuka; KOBATAKE, Seiya; MIYASAKA, Hiroshi

4D7-10 LCST Control and Two-Step Photoinduced Morphological Transformation by Phototransformation of Supramolecular Assembly of Amphiphilic Diarylethene (Grad. Sch. Eng., Kyoto Univ.) ○KOTANI, Yasunobu; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

4D7-11 Hierarchical Assembly of Diarylethene Supramolecular Architecture by Depletion Force and the Photoinduced Transformation (Grad. Sch. Eng., Kyoto Univ.) ○YASUDA, Haruka; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

4D7-12 Photoinduced Division of the Supramolecular Assembly Composed of Amphiphilic Diarylethene Mixtures Caused by Local Phase Transition among Regions Having Different Conversion Yields (Grad. Sch. Eng., Kyoto Univ.) ○SAKAKIBARA, Seiya; HIGASHIGUCHI, Kenji; YOTSUJI, Hajime; MATSUDA, Kenji

4D7-13 Fabrication of Polymer Films with Two-Dimensional Molecular Alignment Patterning and Conversion into a Vector Beam (Lab. Chem. Life Sci., Tokyo Tech.) ○OTA, Megumi; AIZAWA, Miho; AKAMATSU, Norihisa; SHISHIDO, Atsushi

Chair: HAKETA, Yohei (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4D7-15, 4D7-17, 4D7-19, 4D7-20)

4D7-15[#] Highly Sensitive Nonlinear Optical Materials by Control of Surface Anchoring Based on Polymer-Stabilized Dye-Doped Liquid Crystals (Lab. Chem. Life Sci., Tokyo Tech.) ○USUI, Koji; AKAMATSU, Norihisa; SHISHIDO, Atsushi

4D7-17[#] Mechano-optical properties of cholesteric-liquid-crystal elastomers: strain induced change in reflection color (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KU, Kyosun; KIMURA, Seiya; AKAMATSU, Norihisa; SHISHIDO, Atsushi; HISANO, Kyohei; TSUTSUMI, Osamu

4D7-19 Control of thermal bleaching temperature for write-by-light/erase-by-heat materials using diarylethenes (Grad. Sch. Eng., Osaka City Univ.) ○SATO, Yuta; KITAGAWA, Daichi; KOBATAKE, Seiya

4D7-20 Optical Properties and Photochromism of Water-Soluble Cu Doped ZnS Nanocrystals (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○HAN, Yulian; HAMADA, Morihiko; KOBORI, Yasuhiro; KOBAYASHI, Yoichi

Room E1

Bldg. 3 341

Analytical Chemistry

Saturday, March 16, PM

Solution Analysis

Chair: SUEYOSHI, Kenji (12 : 40~13 : 30)

* 12:30-12:40: interval for laptop PC connection.(1E1-23, 1E1-24, 1E1-26)

1E1-23 Observation of peroxyoxalate chemiluminescence by using water-hydrophilic/hydrophobic organic mixed solvent solution (Grad. Sch. Eng., Doshisha Univ.) ○HAN, Bing; MIZUTANI, Ryo; TSUKAGOSHI, Kazuhiko

1E1-24[#] Rapid decomposition for analysis by inductively coupled plasma atomic emission spectrometry of minerals in oysters using microwave (Hirosaki, AITC) ○YODA, Tsuyoshi; ICHINOHE, Satoko; YOKOSAWA, Yukihito

- 1E1-26*** Electronic excitation spectra of ionic liquids faced on electrodes using attenuated total reflectance system (Grad. Sch. Eng. Sci., Osaka Univ.)
 ○TANABE, Ichiro; SUYAMA, Aki; SATO, Taiki; IMAI, Masaya; FUKUI, Ken-ichi

Flow Injection Analysis

Chair: HISAMOTO, Hideaki (13 : 40~14 : 20)

- * 13:30-13:40: interval for laptop PC connection.(1E1-29, 1E1-30, 1E1-31)
1E1-29 Determination of organic compounds by FIA system with chemical treated biomass. (Coll. Eng., Chubu Univ.) ○FUKUOUJI, Takuya; WATANABE, Ryou; OCHIAI, Tomoka; MIYAUCHI, Tosiyouki

Electrophoresis

- 1E1-30#** Simultaneous determination of four amphetamine - type drugs using a portable capillary electrophoresis instrument with contactless conductivity detection (Grad. Sch. Eng., Univ. of Hyogo) ○NGUYEN, Thi Lien; NGUYEN, Thi Anh Huong; NGUYEN, Xuan Truong; MAI, Thanh Duc; SHIN-ICHI, Yusa
1E1-31* A Moment Analysis Method for Kinetic Study on Intermolecular Interactions and Solute Permeation at Interface of Spherical Molecular Aggregates (Coll. Sci., Rikkyo Univ.) ○MIYABE, Kanji

Electrochemical Analysis & Sensor

Chair: HIRUTA, Yuki (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(1E1-41, 1E1-42, 1E1-43, 1E1-44, 1E1-45)
1E1-41 Fabrication of sharp gold tips by three-electrode electrochemical etching (RIKEN SISL) ○KAZUMA, Emiko; YANG, Bo; YOKOTA, Yasuyuki; KIM, Yousoo
1E1-42# Investigation of a closed bipolar electrode sensing scheme with liquid junction-less reference electrode (Grad. Sch. Environmental Studies, Tohoku Univ.) ○FAKHRUDDIN, Siti Masturah; KUMI Y., Inoue; TSUGA, Ryoto; IKEGAWA, Miho; MATSUE, Tomokazu
1E1-43 Characterization of Plasticized Poly(vinyl chloride) Membranes Modified Chemically with Sulfobetaine Derivatives and Investigation of Their Ion Sensor Properties (Fac. Sys. Eng., Wakayama Univ.; Fac. Eng., Saitama Inst. of Tech.) ○SHIBUTANI, Kaoru; TANAKA, Mutsuo; YAJIMA, Setsuko
1E1-44 Fabrication of NO gas sensor made of colloidal dispersion of F-CuPc nanorods (Grad. Sch. Sci., Eng., Ehime Univ.) ○KIHARA, Ryo; NAKAJIMA, Hiroki; MATSUGUCHI, Masanobu; ASAH, Tsuyoshi
1E1-45 Measurement of weak emission spectra using a commercially available digital camera (Fac. Eng., TUS) ○SUGAWARA, Akari; KUNIMURA, Shinsuke

Chair: KAJI, Noritada (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(1E1-47, 1E1-49, 1E1-51)
1E1-47** Development of Glyphosate sensors utilizing Polythiophene Derivatives (IIS, The Univ. of Tokyo) ○SASAKI, Yui; MINAMI, Tsuyoshi

Chromatography

- 1E1-49*** Robustness of the relative molar sensitivity obtained with HPLC-RI systems for the simple determination of non-ionic surfactant (NMIJ, AIST) ○KUROE, Miho; SAITO, Naoki; MASUMOTO, Naoko; NISHIZAKI, Yuzo; SUGIMOTO, Naoki; NUMATA, Masahiko; IHARA, Toshihide
1E1-51** Alkali resistant calcium carbonate porous particles for high-performance liquid chromatography (Fac. Sci. Tech., Keio Univ.) ○HIRUTA, Yuki; MOCHIDA, Mai; NAGAI, Yuta; KUMAGAI, Hiroto; IMAI, Hiroaki; CITTERIO, Daniel

Separation & Condensation

Chair: MINAMI, Tsuyoshi (17 : 50~18 : 50)

- * 17:40-17:50: interval for laptop PC connection.(1E1-54, 1E1-55, 1E1-56, 1E1-57, 1E1-58, 1E1-59)
1E1-54 Concentration of trace elements using melting process of eutectics of salt and water 3 (Fac. Sci., Kanagawa Univ.) ○ARAI, Masaru; NISHIMOTO, Yuko

Analytical Reagent

- 1E1-55** Design of Boronic Acid Type Ditopic Probe/Cyclodextrin Complexes and Their Supramolecular Chirality Function (Sci. Tec., Sophia Univ.) ○HATTORI, Tatsuhiro; HASHIMOTO, Takeshi; HAYASHITA, Takashi
1E1-56 Design and Response Function of Vesicles Possessing Dipicolylamine Fluorescent Probe (Sci. Tec., Sophia Univ.) ○EBISAWA, Yu; ENDO, Miwa; HASHIMOTO, Takeshi; HAYASHITA, Takashi
1E1-57 Design and Evaluation of Novel Cyclodextrin Nanogels (Sci. Tec., Sophia Univ.; Sci. Tec., Sophia Univ.) ○TAKEUCHI, Satomi; SOUMA, Suzuka; HASHIMOTO, Takeshi; HAYASHITA, Takashi
1E1-58 Electrochemical Detection of Bacteria Using Ruthenium-Modified

- Gold NanoImmobilized Electrodes (Sci. Tec., Sophia Univ.)
 ○YOSHIZAWA, Kentaro; KISHI, Yumino; KITAMOTO, Yukihiro; SATO, Hiroki; HASHIMOTO, Takeshi

- 1E1-59** Bacteria Detection Using Boronic Acid/ Dendrimer Complexes and The Effect of Betaine Modification on Their Function (Sci. Tec., Sophia Univ.) ○YOYASU, Asuka; KITAMURA, Aya; IKENO, Masaru; HASHIMOTO, Takeshi; HAYASHITA, Takashi

Sunday, March 17, AM

Nano-particles and interface

Chair: TANIGUCHI, Masateru (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(2E1-07, 2E1-08, 2E1-09, 2E1-11)
2E1-07 Evaluation and Synthesis of Amphoteric Ionic Type and Spherical Resin Enclosing Gold-Nanoparticles (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○SUZUKI, Rie; BUTSUGAN, Michio; ONUMA, Chisa; HINZE, Willie; TAKAGAI, Yoshitaka
2E1-08 Particle size growth of Pollucite synthesized by hydrothermal method and its characterization (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○TAKAKU, Ryosuke; OHASHI, Hironori; TAKASE, Tsugiko
2E1-09** Development of a highly sensitive colorimetric biosensor based on plasmonic coloration (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TOMA, Mana; TANAKA, Ryo; TAWA, Keiko
2E1-11 Elucidation of Dispersion State and Structure of Highly-condensed Silver Nanoparticles Synthesized/Captured by Zwitterionic Surfactant (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○NAGASAKU, Miyu; HINZE, Willie; TAKAGAI, Yoshitaka

Chair: TAWA, Keiko (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(2E1-13, 2E1-15, 2E1-16, 2E1-17)
2E1-13** Hydrothermal synthesis of low dense array of long ZnO nanowires (Grad. Sch. Eng., Nagoya Univ.) ○LIU, Quanli; YASUI, Takao; KAJI, Noritada; BABA, Yoshinobu
2E1-15 Fine-tuning pore surface charge coating with Al₂O₃ (ISIR, Osaka Univ.) ○HAYASHIDA, Tomoki; TSUSUI, Makusu; TANIGUCHI, Masateru
2E1-16 Identifying single-nanoparticles using a nanopore trapping method (ISIR, Osaka Univ.) ○ARIMA, Akihide; TSUTSUI, Makusu; TANIGUCHI, Masateru
2E1-17# Non-spherical gold nanoparticle translocation through a solid-state nanopores (ISIR, Osaka Univ.) ○LEONG, Iat Wai; TSUTSUI, Makusu; TANIGUCHI, Masateru

Sunday, March 17, PM

Nano/Microanalysis

Chair: KAZOE, Yutaka (13 : 00~13 : 50)

- * 12:50-13:00: interval for laptop PC connection.(2E1-25, 2E1-27, 2E1-29)
2E1-25* Structural Analysis of Laminar Flow in Microfluidics by Soft X-ray Absorption Spectroscopy (PMS, IMS) ○NAGASAKA, Masanari; YUZAWA, Hayato; TAKADA, Noriko; AOYAMA, Masaki; RÜHL, Eckart; KOSUGI, Nobuhiro
2E1-27* The possibility of the dual polarization modulation in the solid-state chiral measurements (Fac. Eng., Oita Univ.) ○HARADA, Takunori; NARITA, Yoshihito; HAYAKAWA, Hiroshi; WATANABE, Masayuki; HIRAO, Shotaro; OHGA, Yasushi; TAKAHASHI, Toru
2E1-29 Detection of Dissolved Carbon Dioxide in Water Using Infrared Waveguide Spectroscopy (Grad. Sch. Maritime Sci., Kobe Univ.) ○MENG, Guangzhi; HOTTA, Hiroki; TSUNODA, Kin-ichi; KIMOTO, Takashi

Chair: HOTTA, Hiroki (14 : 00~14 : 40)

- * 13:50-14:00: interval for laptop PC connection.(2E1-31, 2E1-32, 2E1-33, 2E1-34)
2E1-31 Thermal diffusivity measurement in extended-nano space (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Tokio; MAWATARI, Kazuma; SHIMIZU, Hisashi; KITAMORI, Takehiko
2E1-32 Development of extended-nano fluidic device implemented with nanochannel open/close valves utilizing glass deformation (Grad. Sch. Eng., The Univ. of Tokyo) ○SANNO, Hiroki; KAZOE, Yutaka; MAWATARI, Kazuma; KITAMORI, Takehiko
2E1-33 Solute molecule behavior at micro/extended-nano size interface (Grad. Sch. Eng., The Univ. of Tokyo) ○OKAMOTO, Kazuma; KAZOE, Yutaka; MAWATARI, Kazuma; KITAMORI, Takehiko
2E1-34 Development of plasma separation device using extended-nanofluidics (Grad. Sch. Eng., The Univ. of Tokyo) ○MITSUSE, Jumpei; MORIKAWA, Kyojuro; MORI, Emi; KAZOE, Yutaka; MAWATARI, Kazuma; KITAMORI, Takehiko

Monday, March 18, AM

Mass Spectroscopy

Chair: INOUE-YASUDA, Kumi (9 : 20 ~ 10 : 00)

- * 9:10-9:20: interval for laptop PC connection.(3E1-03, 3E1-05, 3E1-06)
3E1-03[#] Analytical characterization of ancient lacquer ware (JEOL Ltd.)
 ○NIIMURA, Noriyasu; NISHIOKA, Hideo; ONODERA, Hiroshi; UETAKE, Yusuke; MATSUSHIMA, Hideki
3E1-05 Online Solid Phase Extraction-Isotope Dilution ICP-MS Analysis for Strontium Following Laser Ablation as Pretreatment Method (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○ODASHIMA, Mizuki; FURUKAWA, Makoto; SUZUKI, Katz; HIRATA, Takafumi; TAKAGAI, Yoshitaka
3E1-06 ICP-MS Analysis Following Two Parallel Separations Merged by Hybrid Chamber and Its Application to Simultaneous Determination of Radioactive Strontium and Radioactive Iodine (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○OGATA, Hiroaki; FURUKAWA, Makoto; TAKAGAI, Yoshitaka

Imaging

Chair: YOSHIMOTO, Keitaro (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3E1-08, 3E1-10, 3E1-11, 3E1-12)
3E1-08[#] Microfluidics-based single-molecule live-cell imaging on cellular interactions occurring in the presence of external force (King Abdullah Univ. of Sci. and Tech.) AL ALWAN, Bader; MERZABAN, Jasmeen; ○HABUCHI, Satoshi
3E1-10[#] Investigation for high-resolution bio-imaging using closed bipolar electrode arrays (Grad. Sch. Environmental Studies, Tohoku Univ.)
 ○IWAMA, Tomoki; INOUE Y., Kumi; ABE, Hiroya; MATSUE, Tomokazu
3E1-11 In vivo imaging of exosomes derived from stem cells by near-infrared fluorescent dye (Grad. Sch. Eng., Nagoya Univ.) ○KUMON, Yuka; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; BABA, Yoshinobu
3E1-12 Single cell imaging of transplanted stem cells in the whole cleared tissue by quantum dots (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Med., Nagoya Univ.; Grad. Sch. Med., The Univ. of Tokyo) ○MIZUMAKI, Toshiki; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; UEDA, Hiroki; SUSAKI, Etsuo; BABA, Yoshinobu

Chair: OZAWA, Takeaki (11 : 10~11 : 40)

- * 11:00-11:10: interval for laptop PC connection.(3E1-14)
3E1-14 CSJ Award for Young Chemists Nanospace engineering for innovative bio-analytical methods (Grad. Sch. Eng., Nagoya Univ.)
 ○YASUI, Takao

Monday, March 18, PM

Chair: MAEDA, Mizuo (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3E1-25)
3E1-25[#] CSJ Award for Creative Works Development of methods to control living systems by light (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SATO, Moritoshi
 Chair: TAKEUCHI, Toshifumi (14 : 10~15 : 00)
 * 14:00-14:10: interval for laptop PC connection.(3E1-32, 3E1-33, 3E1-34, 3E1-35)
3E1-32[#] Text-Displaying Competitive Lateral Flow Immunoassay Enabling Naked-Eye Semiquantitative Analysis (Grad. Sch. Sci. Tech., Keio Univ.; Techno Medica Co., Ltd.) ○MISAWA, Kazushi; WATANABE, Daiki; YAMAMOTO, Tomohiro; HIRUTA, Yuki; YAMAZAKI, Hiroki; CITTERIO, Daniel
3E1-33 Study toward to develop a new bioimaging material using 2-sulfanyhydroquinone (Fac. Eng., Yamaguchi Univ.; Sch. Med., Yokohama City Univ.) ○UMEMOTO, Haruka; KAWAMOTO, Takuji; HONDA, Takeshi; KAMIMURA, Akio; INUI, Makoto
3E1-34 Effect of fulvic acid on Fe adsorption on alginate thin membrane (Grad. Sch. Eng., Osaka Pref. Univ.) ○IWAI, Hisanori
3E1-35[#] Electrochemical Detection of Viable Bacterial Cells Using a Tetrazolium Salt (Grad. Sch. Eng., Osaka Pref. Univ.) ○ISHIKI, Kengo; SHIIGI, Hiroshi

Nanowire

Chair: YASUKAWA, Tomoyuki (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(3E1-38, 3E1-39, 3E1-40, 3E1-42)
3E1-38 Development of antigen recognition nanowire based on molecular shape (Sch. Eng., Nagoya Univ.) ○HORIUCHI, Masafumi; YASUI, Takao; YANAGIDA, Takeshi; NAGASHIMA, Kazuki; BABA, Yoshinobu
3E1-39 Elucidation of peptide binding to nanowire and its application to detection device (Grad. Sch. Eng., Nagoya Univ.) ○NAITO, Hiroki; YASUI, Takao; NAGASHIMA, Kazuki; TANAKA, Masayoshi; SHIOYA,

- Nobutaka; SHIMOAKA, Takahumi; YANAGIDA, Takeshi; OKOCHI, Mina; HASEGAWA, Takeshi; BABA, Yoshinobu
3E1-40[#] Nanowires with Microheater for Detecting DNA methylation (Grad. Sch. Eng., Nagoya Univ.) ○TAKAHASHI, Hiromi; YASUI, Takao; SHINJO, Keiko; KAJI, Noritada; OKAMOTO, Akimitsu; BABA, Yoshinobu
3E1-42[#] Fluorescent nanodiamond quantum thermometers for intracellular temperature measurement (Grad. Sch. Sci., Osaka City Univ.; Grad. Sch. Eng., Nagoya Univ.; ImPACT Res. Cen. Adv. Nanobiodevices, Nagoya Univ.) ○FUJIWARA, Masazumi; YUKAWA, Hiroshi; KOBAYASHI, Kaori; UMEHARA, Yumi; BABA, Yoshinobu

Polymer

Chair: KUBO, Takuya (16 : 20~17 : 10)

- * 16:10-16:20: interval for laptop PC connection.(3E1-45, 3E1-46, 3E1-48)
3E1-45 Salivary microRNA extraction and analyzing with nanocellulose for defining a new health diagnostic criterion. (Grad. Sch. Eng., Nagoya Univ.)
 ○MIZUKAMI, Naoya; YASUI, Takao; KOGA, Naohiro; BABA, Yoshinobu
3E1-46[#] Polymer-based high selective protein sensing system prepared by molecular imprinting and post-imprinting modifications (Fac. Pharm., Yasuda Women's Univ.; Grad. Sch. Eng., Kobe Univ.) ○SUNAYAMA, Hirobumi; TAKEUCHI, Toshifumi
3E1-48[#] Generating characteristic patterns of biological samples using arrays of environmentally-responsive polymers (BRI, AIST) ○TOMITA, Shunsuke; ISHIHARA, Sayaka; KURITA, Ryoji
 Chair: TOMITA, Shunsuke (17 : 20~17 : 50)
 * 17:10-17:20: interval for laptop PC connection.(3E1-51, 3E1-53)
3E1-51^{*} Development of molecular recognition materials and its application to stimulus molecular releasing (Kyoto Univ.) ○KUBO, Takuya; TACHIBANA, Kaname; NAITO, Toyohiro; BALACHANDRAN, Jeyadevan; OTSUKA, Koji
3E1-53 Cell-penetration of cationic polymers possessing ammonium or guanidinium groups and their application for kinase assay (Fac. Sci. Tech., Ryukoku Univ.) ○HAYASHI, Yuri; MIYATAKE, Tomohiro

Room E2

Bldg. 3 342

Physical Chemistry -Chemical Kinetics and Dynamics-

Saturday, March 16, AM

Chair: YAMADA, Kana (9 : 10 ~ 9 : 50)

- * 9:00-9:10: interval for laptop PC connection.(1E2-02, 1E2-03, 1E2-04)
1E2-02 Avoiding Working Principle Problem in Product Ion Analysis of Multiply Charged Ions by Reflectron Time-of-Flight Instruments (Grad. Sch. Sci., Osaka City Univ.) ○KITASHOJI, Akihiro; FUJIHARA, Akimasa; YOSHIKAWA, Taiki; YATSUHASHI, Tomoyuki
1E2-03 Trajectory calculations for Penning ionization of polycyclic aromatic hydrocarbons (Sci. Eng., The Univ. of Electro-Communications; Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KAI, Naoki; YAMAKITA, Yoshihiro
1E2-04[#] OPIG-DC Voltage-Resolved Proton Transfer Reactions of Bimolecular Ions (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○NONOSE, Shinji; USUI, Yu; OJI, Hoshiyuri; KANAMORI, Satoko; KOBAYASHI, Yuko
 Chair: NONOSE, Shinji (10 : 00~10 : 50)
 * 9:50-10:00: interval for laptop PC connection.(1E2-07, 1E2-09, 1E2-11)
1E2-07[#] Study of the substitution and solvation effect on the trans → cis photoisomerization of cinnamate derivatives (Grad. Sch. Sci., Hiroshima Univ.) ○KINOSHITA, Shin-nosuke; INOKUCHI, Yoshiya; EBATA, Takayuki; INOUE, Kosuke; NAGAMORI, Keigo; ONITSUKA, Yuuki; KOHGUCHI, Hiroshi; AKAI, Nobuyuki; SHIROGAWA, Takafumi; EHARA, Masahiro; YAMAZAKI, Kaoru; HARABUCHI, Yu; MAEDA, Satoshi; TAKETSUGU, Tetsuya
1E2-09[#] Visible photodissociation processes of (CO₂)₂⁺ studied by ion imaging experiments and reaction dynamics simulations (Grad. Sch. Sci., Tohoku Univ.) ○NAKASHIMA, Yuji; OKUTSU, Kenichi; ITO, Yuri; KANNO, Manabu; NAKANO, Motoyoshi; OHSHIMO, Keijiro; KONO, Hirohiko; MISAIZU, Fuminori
1E2-11 Ultraviolet photodissociation study of Mg⁺-NO complex by ion imaging technique (Grad. Sch. Sci., Tohoku Univ.) ○ITO, Yuri; NAKASHIMA, Yuji; OKUTSU, Kenichi; NAKANO, Motoyoshi; MISAIZU, Fuminori

Chair: SUZUKI, Hal (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(1E2-13, 1E2-15, 1E2-16,

1E2-17)

1E2-13[#] Nonlinear Fourier transform spectroscopy of O₂ by intense attosecond pulse trains (Sch. Sci., The Univ. of Tokyo; RAP, RIKEN) ○FUKAHORI, Shinichi; MATSUBARA, Takuya; NABEKAWA, Yasuo; YAMANOUCI, Kaoru; MIDORIKAWA, Katsumi

1E2-15[#] Nonlinear Fourier transform spectroscopy of acetylene by intense attosecond pulse trains (Sch. Sci., The Univ. of Tokyo; RAP, RIKEN) ○MATSUBARA, Takuya; FUKAHORI, Shinichi; NABEKAWA, Yasuo; YAMANOUCI, Kaoru; MIDORIKAWA, Katsumi

1E2-16[#] Ultrafast vibrational dynamics of N₂⁺ investigated by pump-probe measurement using near-IR few-cycle and XUV high-order harmonics pulses (The Univ. of Tokyo) ○YAMADA, Kana; ANDO, Toshiaki; IWASAKI, Atsushi; YAMANOUCI, Kaoru

1E2-17[#] Fourier-transform spectroscopy of isolated molecular ion using intense few-cycle near-infrared laser pulses (Grad. Sch. Sci., The Univ. of Tokyo) ○ANDO, Toshiaki; IWASAKI, Atsushi; YAMANOUCI, Kaoru

Saturday, March 16, PM

Chair: MORISAWA, Yusuke (13 : 10~14 : 00)

* 13:00-13:10: interval for laptop PC connection.(1E2-26, 1E2-27, 1E2-29, 1E2-30)

1E2-26 Coordination Structures of Complexes between Alkali Metal Ions with Linear Alkane Diols Studied by Ion Mobility Mass Spectrometry (Grad. Sch. Sci., Tohoku Univ.) ○OHSHIMO, Keijiro; YABE, Kenta; MIYAZAKI, Shun; TAINAKA, Souta; HASEGAWA, Kohei; MISAIZU, Fuminori

1E2-27[#] Adsorption of Carbon Monoxide on Gold-Ceria Composite Cluster Cations Studied by Ion Mobility Mass Spectrometry (Grad. Sch. Sci., Tohoku Univ.) ○NAGATA, Toshiaki; NAKANO, Motoyoshi; MISAIZU, Fuminori

1E2-29 Formation of non-rock-salt structures in sodium chloride cluster ions (Grad. Sch. Sci., Tohoku Univ.) ○HOTTA, Riki; NAGATA, Toshiaki; NAKANO, Motoyoshi; MISAIZU, Fuminori

1E2-30[#] Geometrical structures of rhodium oxide cluster cations studied by ion mobility mass spectrometry (Sch. Sci., Tohoku Univ.) ○SU, Chang; NAGATA, Toshiaki; NAKANO, Motoyoshi; MISAIZU, Fuminori

Chair: YASUMATSU, Hisato (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(1E2-32, 1E2-34, 1E2-36, 1E2-37)

1E2-32[#] Structural transition in the sequential oxidation of iridium cluster anions revealed by ion mobility measurements (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Sci., Tohoku Univ.) ○TOMIHARA, Ryohei; NAGATA, Toshiaki; WU, Jenna W. J.; KOYASU, Kiichirou; NAKANO, Motoyoshi; OHSHIMO, Keijiro; MISAIZU, Fuminori; TSUKUDA, Tatsuya

1E2-34[#] Gas-phase photoelectron spectroscopy on thiolate-protected coinage metal clusters (I): photo-induced thermionic emission (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○HIRATA, Keisuke; KIM, Kuenhee; NAKAMURA, Katsunosuke; TAKANO, Shinjiro; KOYASU, Kiichirou; TSUKUDA, Tatsuya

1E2-36[#] Gas-phase photoelectron spectroscopy on thiolate-protected coinage metal clusters (II): effect of doping to the silver superatom (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○KIM, Kuenhee; HIRATA, Keisuke; NAKAMURA, Katsunosuke; KOYASU, Kiichirou; TSUKUDA, Tatsuya

1E2-37[#] Gas-phase photoelectron spectroscopy on thiolate-protected coinage metal clusters (III): effect of surface modification of the silver superatom (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○NAKAMURA, Katsunosuke; HIRATA, Keisuke; KIM, Kuenhee; KOYASU, Kiichirou; TSUKUDA, Tatsuya

Chair: NAKAJIMA, Atsushi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1E2-39, 1E2-41, 1E2-42, 1E2-43, 1E2-44)

1E2-39[#] Bistability in Molecular Adsorption on Pt Cluster Disks Bound to Silicon Substrate Surface through Strong Electronic Interaction (Cluster Res. Lab., Toyota Tech. Inst.) ○YASUMATSU, Hisato

1E2-41[#] Synthesis and characterization of a magic-number phenylacetylene-protected gold cluster Au₁₈(C≡CPh)₁₄ (Fac. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○ITO, Shun; TAKANO, Shinjiro; TSUKUDA, Tatsuya

1E2-42[#] Hydride-mediated Regioselective Doping of Heteroatoms to Gold-based Superatom (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○HIRAI, Haru; TAKANO, Shinjiro; TSUKUDA, Tatsuya

1E2-43[#] Interaction of PtAu₂₄(SR)₁₈ with hydride (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○SUYAMA, Megumi; TAKANO, Shinjiro; KOYASU, Kiichirou; TSUKUDA, Tatsuya

1E2-44[#] Linear dichroism in the UV region by aligned polyyne molecules in PVA (Kindai Univ.) ○WAKABAYASHI, Tomonari; SATA, Ryosuke; SUZUKI, Hal; UENO, Nami; HATANAKA, Miho; MORISAWA, Yusuke

Chair: TERASAKI, Akira (16 : 30~17 : 10)

* 16:20-16:30: interval for laptop PC connection.(1E2-46, 1E2-47, 1E2-49)

1E2-46 Adsorption structure of NO on Ir₆ cationic cluster determined by using IRMPD (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YAMAGUCHI, Masato; ZHANG, Yufei; KUDOH, Satoshi;

LUSHCHIKOVA, Olga; BAKKER, Joost; MAFUNE, Fumitaka

1E2-47^{*} Oxidative Reactivity of Superatoms with Cluster-Surface Interaction Designed by Organic Molecules (Fac. Sci. Tech., Keio Univ.; Keio Univ. KIPAS) KAMOSHIDA, Toshiaki; SHIBUTA, Masahiro; OHTA, Tsutomu; TSUNOYAMA, Hironori; ○NAKAJIMA, Atsushi

1E2-49 Study on the chemical stabilities of deposited nanocluster superatoms of main group elements (Fac. Sci. Tech., Keio Univ.) ○TOMOYA, Inoue; MASAHIRO, Shibuta; HIRONORI, Tsunoyama; ATSUSHI, Nakajima

Chair: WAKABAYASHI, Tomonari (17 : 20~18 : 30)

* 17:10-17:20: interval for laptop PC connection.(1E2-51, 1E2-52, 1E2-53, 1E2-54, 1E2-55, 1E2-56, 1E2-57)

1E2-51 Reaction of transition-metal-doped silver cluster ions, Ag_NM⁺ (M=Sc-Ni), with NO molecules: Effects of the cluster size and the dopant element on reaction pathways and products (Grad. Sch. Sci., Kyushu Univ.) ○HORIOKA, Masataka; NISHIKAWA, Kyosuke; MINAMIKAWA, Kento; KAWANO, Tomoki; NISHIURA, Zyun; ARAKAWA, Masashi; TERASAKI, Akira

1E2-52 Exploring correlation between electronic and geometric structures of Ag_NM^{+/-} with 18 valence electrons through reactivity toward O₂ molecules (Grad. Sch. Sci., Kyushu Univ.) ○MINAMIKAWA, Kento; HORIOKA, Masataka; KAWANO, Tomoki; ARAKAWA, Masashi; TERASAKI, Akira

1E2-53 Reaction between carbon monoxide and hydrogen molecules induced by co-adsorption on a cobalt cluster cation (Fac. Sci., Kyushu Univ.) ○OKADA, Daichi; FUJIMOTO, Shuhei; ARAKAWA, Masashi; TERASAKI, Akira

1E2-54 Synthesis and properties of typical metal superatoms in a dendrimer template (Lab. Chem. Life Sci., Tokyo Tech.) ○HOSONO, Reina; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa

1E2-55 Precise synthesis of gallium/platinum bimetallic clusters using a dendrimer template (Lab. Chem. Life Sci., Tokyo Tech.) ○ARAI, Yuki; KAMBE, Tetsuya; WATANABE, Aiko; IMAOKA, Takane; YAMAMOTO, Kimihisa

1E2-56 Synthesis of bismuth clusters through fine controlled metal assembly in a dendrimer (Lab. Chem. Life Sci., Tokyo Tech.) ○HASEGAWA, Risaki; KAMBE, Tetsuya; HOSONO, Reina; IMAOKA, Shotaro; YAMAMOTO, Kimihisa

1E2-57 Temperature Dependence of Rate Constants of Cluster-Mediated Hollow Silver Nanoshell Formation by Reduction of Silver Thiocyanate (Fac. Sys. Eng., Wakayama Univ.) ○NISHIURA, Masashi; KADO, Shinpei; YAJIMA, Setsuko

Sunday, March 17, PM

Chair: FUJITSUKA, Mamoru (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(2E2-31, 2E2-32, 2E2-33, 2E2-35)

2E2-31 Theoretical study of the encapsulation reaction of a nitrogen atom to the tetrahedron nanocarbon space (Sch. Sci., Tokai Univ.) ○OKUMURA, Sayako; ISHIKAWA, Shigeru

2E2-32[#] Attempted Observation of the Thermodynamically Favored Diphenylcyclobutenediyl-Muonium Adduct (Sch. Mater. & Chem. Tech., Tokyo Tech.; KEK) ○ITO, Shigekazu; OHTSUKI, Kazuaki; KOSHINO, Kota; MIKAMI, Koichi; KOJIMA, Kenji, M.

2E2-33[#] Local Environment of Lipid Bilayer Membrane Monitored by Magnetic Field Effect-Based Fluorescence Imaging (Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.) ○SAKURAI, Manabu; KOBORI, Yasuhiro; TACHIKAWA, Takashi

2E2-35[#] Direct Observation of Photoionization Dynamics in Solution Phase Induced by Simultaneous and Stepwise Two-Photon Excitation (Grad. Sch. Eng. Sci., Osaka Univ.) ○KOGA, Masafumi; YONEDA, Yusuke; SOTOME, Hikaru; MIYASAKA, Hiroshi

Chair: ITO, Shigekazu (15 : 10~15 : 50)

* 15:00-15:10: interval for laptop PC connection.(2E2-38, 2E2-39, 2E2-40)

2E2-38 Photoisomerization and photoionization of trans-stilbene in two different sodium alkyl sulfate micelles observed with femtosecond time-resolved visible-near IR spectroscopy (Fac. Sci., Gakushuin Univ.) ○GOROYU, Shion; OKINO, Shunnosuke; TAKAYA, Tomohisa; IWATA, Koichi

2E2-39 Real-time measurement of molecular vibration of bianthryl to study its intramolecular charge transfer dynamics (Grad. Sch. Eng., Kanagawa Univ.) ○MURAKAMI, Takahiko; HASHIMOTO, Sena; YABSHITA, Atsushi; IWAKURA, Izumi

2E2-40^{*} Ring Size Effects on Relaxation Processes of Excited Cycloparaphenylenes (ISIR, Osaka Univ.; ICR, Kyoto Univ.) ○FUJITSUKA, Mamoru; KAYAHARA, Eiichi; YAMAGO, Shigeru; MAJIMA, Tetsuro

Chair: TACHIKAWA, Takashi (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2E2-43, 2E2-44, 2E2-45, 2E2-46, 2E2-47, 2E2-48)

2E2-43 Size-Dependent Carrier Transfer Dynamics in CdTe Quantum Dots-Fullerene Systems (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KORI, Shota; KATAYAMA, Teturo; TAMAI, Naoto

2E2-44 Elementary Carrier Transfer Processes in ZnSe QDs-Fullerene Hybrid Nanostructures (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TANABE,

Yoko; KORI, Syota; USUI, Yuta; KATAYAMA, Teturo; TAMAI, Naoto
2E2-45 Photochromic Reaction of CdTe QDs-Diarylethene Derivative Hybrid System (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KATAOKA, Taisei; SHIBAYAMA, Daiki; USUI, Yuta; KATAYAMA, Teturo; MORIMOTO, Masakazu; IRIE, Masahiro; TAMAI, Naoto

2E2-46 Electron Transfer Dynamics of CdSe/ZnS Quantum Dots-Methyl Viologen Systems (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TSUJI, Kosuke; USUI, Yuta; KATAYAMA, Teturo; TAMAI, Naoto

2E2-47 Photodecomposition of Guanosine by Thioguanosine Derivatives (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TANABE, Shunsuke; KASHIHARA, Wataru; SUZUKI, Tadashi

2E2-48 Simultaneous observation and kinetics of isomerization of multiple residues in amyloid beta fragments using ¹H-NMR (Faculty of Pharmaceutical Sciences Himeji Dokkyo Univ.) ○KENZO, Aki; EMIKO, Okamura

Monday, March 18, AM

Chair: MINAMIMOTO, Hiro (9 : 00 ~ 9 : 50)

* 8:50-9:00: interval for laptop PC connection.(3E2-01, 3E2-02, 3E2-03, 3E2-04, 3E2-05)

3E2-01 Atomicity dependence of Pt cluster catalyst in hydrogen evolution reaction (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMADA, Akari; AKANUMA, Yuki; KUZUME, Akiyoshi; IMAOKA, Takane; YAMAMOTO, Kimihisa

3E2-02 Hydrogen evolution reaction by metal and alloy cluster catalysts (Lab. Chem. Life Sci., Tokyo Tech.) ○SHIMIZU, Kana; KUZUME, Akiyoshi; IMAOKA, Takane; YAMAMOTO, Kimihisa

3E2-03 A study of the reaction mechanism for LiNiO₂ in the aqueous solution. (Showa Pharm. Univ.) ○SUZUKI, Noriko; OSADA, Yusuke; OKABE, Takehiro; KANZAKI, Yasushi; KARASAWA, Satoru

3E2-04 Electrocatalytic Reduction of Carbon Monoxide to Hydrocarbons by Metal-Modified Covalent Triazine Frameworks (Grad. Sch. Eng. Sci., Osaka Univ.) ○HASHIMOTO, Takuya; HARADA, Takashi; KAMIYA, Kazuhide; NAKANISHI, Shuji

3E2-05 Spectroelectrochemistry of nitric oxide reductase immobilized on electrodes via self-assembled monolayers (Fac. Env. Earth Sci., Hokkaido Univ.) ○NARUMI, Asahi; MASUDA, Yuya; NAKAGAWA, Shogo; TOSHA, Takehiko; KATO, Masaru; YAGI, Ichizo

Chair: IMAOKA, Takane (10 : 00 ~ 11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3E2-07, 3E2-08, 3E2-10, 3E2-12)

3E2-07 Electrochemical Characteristics of Graphene Composite Plasmonic Photoelectric Conversion Electrode. (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SUZUKI, Shinya; MINAMIMOTO, Hiro; MURAKOSHI, Kei

3E2-08[#] Highly-porous heteroatom-doped carbons prepared by salt-assisted pyrolysis of covalent organic frameworks for high-performance supercapacitors (Grad. Sch. Sci., Nagoya Univ.) ○YAN, Dongwan; WU, Yang; ZHANG, Zhongyue; AWAGA, Kunio

3E2-10[#] Electrochemical Surface-Enhanced Raman Scattering Observation of Plasmonic Water Oxidation Reactions (Grad. Sch. Eng., Hokkaido Univ.) ○WANG, Yuchun; OIKAWA, Shunpei; MINAMIMOTO, Hiro; MURAKOSHI, Kei

3E2-12[#] Efficient electroreduction of CO₂ on gas diffusion electrodes carrying 3d-metal modified covalent triazine frameworks (Grad. Sch. Eng. Sci., Osaka Univ.) ○WU, Yuxin; KAMIYA, Kazuhide; HARADA, Takashi; FUJII, Katsushi; NAKANISHI, Shuji

Chair: KAMIYA, Kazuhide (11 : 10 ~ 12 : 20)

* 11:00-11:10: interval for laptop PC connection.(3E2-14, 3E2-15, 3E2-17, 3E2-19)

3E2-14[#] Stability and electrochemical performance of chelate polymers in bifunctional air electrode (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.; Grad. Sch. Eng., Mie Univ.) ○PUTRA, Ridwan Pratama; HORINO, Hideyuki; RZEZNICKA, Izabela Irena

3E2-15[#] Investigation of Reaction Selectivity for Isotopic Hydrogen Evolution Reactions on Nano-Structured Electrodes (Grad. Sch. Sci., Hokkaido Univ.) ○MINAMIMOTO, Hiro; OSAKA, Ryo; MURAKOSHI, Kei

3E2-17[#] Imaging of Crystalline Phase Distribution Changes in Redox Processed in Dendritic FeO_x and Cr-doped FeO_x Single particles Studied by Full-field Imaging Nano-XAFS (RIKEN Spring-8 Center; Grad. Sch. Sci., Nagoya Univ.; JASRI; RCMS, Nagoya Univ.) ○ISHIGURO, Nozomu; MATSUI, Hirotsuke; WAKAMATSU, Kohei; SEKIZAWA, Oki; NITTA, Kiyofumi; URUGA, Tomoya; TADA, Mizuki

3E2-19[#] In Situ Time-Resolved XAFS Studies on Laser-Induced Particle Formation of Platinum Groups Metal Ions in a H₂O / EtOH Solution (QuBS) ○SAEKI, Morihisa; MATSUMURA, Daiju; YOMOGIDA, Takumi; TAGUCHI, Tomitsugu; TSUJI, Takuya; SAITOH, Hiroyuki; NAKANISHI, Ryuzo; OHBA, Hironori

Monday, March 18, PM

Chair: INOUE, Keiichi (13 : 30 ~ 14 : 20)

* 13:20-13:30: interval for laptop PC connection.(3E2-28, 3E2-29, 3E2-30, 3E2-31, 3E2-32)

3E2-28 Alkyl-Chain Length Dependence of Excited State Intramolecular Proton Transfer Reaction of 3-hydroxyflavone Derivatives in Ionic Liquids (Fac. Sci. Eng., Doshisha Univ.) ○MIYABAYASHI, Hanamichi; FUJII, Kaori; MATANO, Yoshihiro; ENDO, Takatsugu; KIMURA, Yoshifumi

3E2-29 Evaluation of fluorescence spectra and lifetime distributions of a fluorescent molecule doped in ionic plastic crystal: Comparison with liquid phase and solid phase (Fac. Sci. Eng., Doshisha Univ.) ○NANAHARA, Yuka; KAWAGUCHI, Shogo; NAKATANI, Yuya; MATSUMURA, Chihiro; ENDO, Takatsugu; KIMURA, Yoshifumi

3E2-30 Photoreaction dynamics of Bacteriophytochrome DrBpP (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TACHIKAWA, Keiya; TAKEDA, Kimitoshi; NAKASONE, Yusuke; TERAZIMA, Masahide

3E2-31 Study on photoreaction dynamics of orange carotenoid protein using transient grating method (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OHATA, Takatoshi; TERAZIMA, Masahide; NAKASONE, Yusuke

3E2-32 pH dependence on intermolecular interaction dynamics between light sensor protein PYP and downstream protein PBP (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KIM, Suhyang; NAKASONE, Yusuke; TAKAKADO, Akira; YAMAZAKI, Yoichi; KAMIKUBO, Hironari; TERAZIMA, Masahide

Chair: MORISAWA, Yusuke (14 : 30 ~ 15 : 30)

* 14:20-14:30: interval for laptop PC connection.(3E2-34, 3E2-36, 3E2-38, 3E2-39)

3E2-34[#] The transport mechanism of a new light-driven inward proton pump, schizorhodopsin (SzR) (Dept. Life Sci. & Appl. Chem., Nagoya Inst. of Tech.; ISSP, The Univ. of Tokyo; PRESTO, JST; Sch. Sci., Nagoya Univ.; ExCeLLS; Biology Centre Acad. Sci. Czech Republic; Israel Inst. Tech.; OptBioTech. Res. Center, Nagoya Inst. Tech.) ○INOUE, Keiichi; TSUNODA, Satoshi; SINGH, Manish; KONNO, Masae; TOMIDA, Sahoko; NAKAMURA, Ryoko; WATANABE, Hiroki; UCHIHASHI, Takayuki; GHAI, Rohit; BÉJÁ, Oded; KANDORI, Hideki

3E2-36[#] Universality of Ultrafast Protein Dynamics of Rhodopsins revealed by Femtosecond Time-Resolved Ultraviolet Stimulated Raman Spectroscopy (Molecular Spectroscopy Lab., RIKEN) ○TAHARA, Shinya; KURIHARA, Rika; KOJIMA, Keiichi; KURAMOCHI, Hikaru; TAKEUCHI, Satoshi; SUDO, Yuki; TAHARA, Tahei

3E2-38[#] Femtosecond Time-resolved Absorption Study on the Origin of the Reactive and Nonreactive Excited States in the Primary Event of Rhodopsins (Molecular Spectroscopy Lab., RIKEN) ○CHANG, Chun-fu; KURAMOCHI, Hikaru; SINGH, Manish; ABE-YOSHIZUMI, Rei; TSUKUDA, Tatsuya; KANDORI, Hideki; TAHARA, Tahei

3E2-39[#] Intramolecular singlet fission in acene dimers and trimers (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○WANG, Li; JUNG, Sunna; HAMURA, Toshiyuki; TAMAI, Naoto

Chair: ISHIBASHI, Yukihide (15 : 40 ~ 16 : 40)

* 15:30-15:40: interval for laptop PC connection.(3E2-41, 3E2-43, 3E2-45)

3E2-41[#] Kinetic study on the enhancing chemiluminescence reaction of dihydroxybenzenes by acidic potassium permanganate (Grad. Sch. Eng., Osaka Pref. Univ.) ○TU, Dang; NORIMICHI, Takenaka; YASUAKI, Maeda; YUSUKE, Fujii

3E2-43[#] Steady-state Spectroscopic Studies of the Kinetics of Singlet Oxygen Sensing by 9-Substituted Anthracene Derivatives (Grad. Sch. Env. Sci., Hokkaido Univ.) ○SASIKUMAR, Devika; TAKANO, Yuta; YUYAMA, Ken-ichi; VASUDEVANPILLAI, Bijju

3E2-45[#] Relations of Oxygen and Electron Transfer to Photoluminescence of Methylammonium Lead Iodide Perovskite Nanocrystals (Grad. Sch. Env. Sci., Hokkaido Univ.) ○CHOUHAN, Lata; GHIMIRE, Sushant; BIJU, Vasudevanpillai

Chair: YUYAMA, Ken-ichi (16 : 50 ~ 17 : 40)

* 16:40-16:50: interval for laptop PC connection.(3E2-48, 3E2-50, 3E2-52)

3E2-48[#] Development of femtosecond pump-probe light-scattering microscopy imaging system (Grad. Sch. Sci., Eng., Ehime Univ.) ○ISHIBASHI, Yukihide; TANAKA, Hitomi; KIHARA, Ryo; ASAHII, Tsuyoshi

3E2-50[#] An efficient non-plasmonic optical tweezers using metallic nanostructures (Grad. Sch. Sci., Osaka City Univ.) UENOBO, Yuki; SHOJI, Tatsuya; DENVER, Linklater; SAULIUS, Juodkazis; ○TSUBOI, Yasuyuki

3E2-52 Optical Trapping of Poly (N-isopropylacrylamide) Labeled with a Rhodamine B on silicon nanostructures (Grad. Sch. Sci., Osaka City Univ.) ○NAGAI, Tatsuya; SHOJI, Tatsuya; JUODKAZIS, Saulius; LINKLATER, Denver; TSUBOI, Yasuyuki

Chair: TSUBOI, Yasuyuki (17 : 50 ~ 18 : 30)

* 17:40-17:50: interval for laptop PC connection.(3E2-54, 3E2-56, 3E2-57)

3E2-54[#] Crystallization of mixed halide lead perovskites by optical trapping (RIES, Hokkaido Univ.) ○YUYAMA, Ken-ichi; ISLAM, Md Jahidul;

BIJU, Vasudevanpillai

- 3E2-56*** Lifetime mapping of photo-excited carriers on TiO₂ by transient grating imaging (Fac. Sci. Eng., Chuo Univ.) ○EBIHARA, Makoto; YOSHINAGA, Naoya; SOHN, Woon Yong; KATAYAMA, Kenji
- 3E2-57** Photoluminescence Behaviors of Organic Lead Halide Perovskite Studied by Single-Particle Spectroscopy (Grad. Sch. Sci., Kobe Univ.) ○KIMURA, Yuki; KARIMATA, Izuru; KOBORI, Yasuhiro; TACHIKAWA, Takashi

Tuesday, March 19, AM

Chair: BAN, Takahiko (9 : 30 ~ 10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(4E2-04, 4E2-05, 4E2-06, 4E2-07, 4E2-08)
- 4E2-04** Voltage control of spatiotemporal pattern appearing in BZ oscillator (Fac. Sci., Hiroshima Univ.) ○HORISAKA, Mari; KUZE, Masakazu; NAKATA, Satoshi
- 4E2-05** Change of directions of chemical waves in coupled microbeads in BZ reaction (Grad. Sch. Sci., Hiroshima Univ.) ○KUZE, Masakazu; KITAHATA, Hiroyuki; STEINBOCK, Oliver; NAKATA, Satoshi
- 4E2-06** Self-reversal of a self-propelled object depending on its shape (Fac. Sci., Hiroshima Univ.) ○MATSUFUJI, Takeru; NAKATA, Satoshi
- 4E2-07** Locomotion mode of oil droplets composed of chiral benzaldehyde derivatives in cationic surfactant solutions (Fac. Sci. Tech., Keio Univ.) ○NAKAJIMA, Yutaro; ASAKURA, Kouichi; BANNO, Taisuke
- 4E2-08** Mechanism for Self-propelled Motion of Aqueous Droplet in Oil Phase Driven by Interfacial Chemical Reaction (Grad. Sch. Adv. Mathematics Sci., Meiji Univ.) ○OGASAWARA, Takuto; SUEMATSU, Nobuhiko J.

Chair: NAKATA, Satoshi (10 : 30 ~ 11 : 10)

- * 10:20-10:30: interval for laptop PC connection.(4E2-10, 4E2-12, 4E2-13)
- 4E2-10*** Self-Propulsion of Vesicles induced by Phase Separation of Aqueous Two-Phase Systems through Their Membranes (Sch. Eng. Sci., Osaka Univ.) ○BAN, Takahiko
- 4E2-12** Two types of precipitate produced by a reaction of aluminum ion and hydroxide ion. (Meiji Univ.) ○FUJITA, Seina; SUEMATSU, Nobuhiko
- 4E2-13** The stoichiometric ratio of catechol derivative and hydroquinone in gold nanoparticle synthesis (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○OHARA, Yasuhiko; AMEMIYA, Takashi; SHIBATA, Kenichi

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Environmental and Green Chemistry

Saturday, March 16, PM

Chair: TAKENAKA, Norimichi (14 : 30 ~ 15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1E3-34, 1E3-35, 1E3-36, 1E3-37, 1E3-38, 1E3-39)
- 1E3-34** Decomposition of azo dye by infrared free electron laser (Fac. Sci., TUS) ○OSHIMA, Yusuke; KAWASAKI, Takayasu; OYAMA, Takahiro; TSUKIYAMA, Koichi
- 1E3-35** Development of solid reducer based on herbaceous biomass and its characterization (Coll. Eng., Chubu Univ.) ○WATANABE, Ryo; FUKUOUJI, Takuya; OCHIAI, Tomoka; MIYAUCHI, Toshiyuki
- 1E3-36** Modification of conductive oxide onto FTO substrate for efficient hydrogen peroxide production via water oxidation (Fac. Sci. Technol., TUS; RCPV, AIST) ○OKUDA, Sota; MIYASE, Yuta; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro
- 1E3-37** Catalytic conversion of sugar alcohol derived from chitin (Inst. for Cat., Hokkaido Univ.) ○SAGAWA, Takuya; KOBAYASHI, Hirokazu; FUKUOKA, Atsushi
- 1E3-38** Development of environmental-benign Ionic liquids with dissolution ability of cellulose (Fac. Edu., Kagawa Univ.) ○BESSHO, Haruka; TAKAGI, Yumiko
- 1E3-39*** All Inorganic CsSn₃ Perovskite based Thermoelectric devices for Waste Heat Management (Grad. Sch. Life Sci. Sys. Eng., KIT; Sch. Eng., KIT) ○BARANWAL, Ajay Kumar; SAINI, Shrikant; YABUKI, Tomohide; MIYAZAKI, Koji; HAYASE, Shuzi

Chair: Miyauchi, Toshiyuki (15 : 40 ~ 16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1E3-41)
- 1E3-41** Withdrawn
- * 15:40-15:50: interval for laptop PC connection.(1E3-42, 1E3-43, 1E3-44, 1E3-45)
- 1E3-42** Activation of a heterogeneous iron-apatite hybridized photo-Fenton catalyst by using humic substances (Dept. Lib. Arts, Saitama Med. Univ.) ○MORIGUCHI, Takeshi; NAKAGAWA, Sohei
- 1E3-43** Production of IO₄⁻ from IO₃⁻ by the WO₃ photoelectrode (RCPV,

AIST) ○TAKASUGI, Soichi; MISEKI, Yugo; SAYAMA, Kazuhiro

- 1E3-44** Development of Pd-supported WO₃ photocatalyst for efficient Hydrogen peroxide generation from oxygen (Grad. Sch. Sci. and Eng., Kansai Univ.) ○FUJIMOTO, Daiki; FUKU, Kojiro; IKENAGA, Naoki
- 1E3-45*** Studied on solar desalination using dye-modified membranes for practical application (AIST) ○FUJIWARA, Masahiro; KIKUCHI, Masaki; TOMITA, Kisho

Chair: FUJIWARA, Masahiro (16 : 50 ~ 17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(1E3-48, 1E3-50, 1E3-51, 1E3-52)
- 1E3-48*** Particle-phase polycyclic aromatic hydrocarbons (p-PAHs) profile and health risk assessment from various Vietnamese and Japanese incense stick (Grad. Sch. Eng., Osaka Pref. Univ.) ○PHAM, Oanh; ITANO, Yasuyuki; FUJII, Yusuke; TAKENAKA, Norimichi
- 1E3-50** NOx released from snow surface by photolysis of nitrate in Antarctica (Osaka Pref. Univ. Hum. Sus. Sys.) ○TAKENAKA, Norimichi; NORO, Kazushi
- 1E3-51** Consideration about flow dynamics of sulfate and nitrate aerosol in indoor air intruded from outdoor air (Osaka City Res Center for Environ Sci) ○FUNASAKA, Kunihiro
- 1E3-52** Continuous measurement of ammonium ions in water by chemiluminescence method (Osaka Pref. Univ.) ○SHIBA, Takumi; TAKENAKA, Norimichi

Physical Organic Chemistry -Reaction Mechanism-

Sunday, March 17, AM

Chair: KANENO, Daisuke (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(2E3-04, 2E3-06, 2E3-07, 2E3-08, 2E3-09)
- 2E3-04*** Formation of the Intramolecularly-Bridged Tetraphenylbenzidine by an Electron-Transfer Reaction (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka City Univ.) KURAMOTO, Yutaro; SAKATA, Takuma; MATSUI, Yasunori; OHTA, Eisuke; YOSHIDA, Kouhei; OKADA, Keiji; ○IKEDA, Hiroshi
- 2E3-06*** Long-lived cyclopentane-1,3-diyl diradicals using stretch effect induced by macrocyclic structures (Grad. Sch. Sci., Hiroshima Univ.) ○WANG, Zhe; ABE, Manabu
- 2E3-07** Study of diradical character of aryl nitrenes bearing electron-donor group (Fac. Sci., Hiroshima Univ.) ○TAKANO, Maaya; ABE, Manabu
- 2E3-08** Generation and Characterization of Diphenylcarbene Protected by Four ortho-Trifluoromethyl Groups (Grad. Sch. Eng., Mie Univ.) ○IKEDA, Kazuma; HIRAI, Katsuyuki; KITAGAWA, Toshikazu
- 2E3-09** Non-alternant Polycyclic Aromatic Carbocation Generated from 7-Phenylbenzo[k]fluoranthene in Superacid (Grad. Sch. Eng., Mie Univ.) ○OKAZAKI, Takao; MATSUNAGA, Takuya; KITAGAWA, Toshikazu

Chair: ABE, Manabu (10 : 40 ~ 11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(2E3-11, 2E3-12, 2E3-13, 2E3-14, 2E3-16)
- 2E3-11** Photolysis Reaction Mechanism of Hydroxyl Group-Containing α -Amino Acids and Dipeptides by Titanium Dioxide (KIT) ○SUMIYOSHI, Masanori; MIYAKE, Yusuke; TAJIMA, Kunihiro; KANAORI, Kenji
- 2E3-12** Reaction Route Searching in Four-Coordinated Chalcogen Species: Application of GRRM (Global Reaction Route Mapping) Method (Fac. Sys. Eng., Wakayama Univ.; Grad. Sch. Sci., Tohoku Univ.) ○UEDA, Kazuki; HAYASHI, Satoko; NAKANISHI, Waro; OHNO, Koichi
- 2E3-13** Experimental and theoretical study on the mechanism for Beckmann Rearrangement of cyclohexanone oxime using a pyridine derivative II (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NISHIKAWA, Fumiya; SAKASHITA, Keiichi; IWAI, Shiho; HORI, Kenji
- 2E3-14*** Nonstatistical effect on acid molecule addition to norbornene (Itsuo Lab.) ○KUROUCHI, Hiroaki
- 2E3-16*** Selective Electronic Excitation of Molecules Controlled by Acceleration Voltage of Transmission Electron Microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○LIU, Dongxin; LUNGERICH, Dominik; KOWASHI, Satoru; YAMANOUCHI, Kaoru; HARANO, Koji; NAKAMURA, Eiichi

Sunday, March 17, PM

Chair: WAKAMATSU, Kan (14 : 30 ~ 15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2E3-34, 2E3-35, 2E3-36, 2E3-37)
- 2E3-34** Theoretical Investigation of Regioselectivity in the Rh-Catalyzed Coupling Reaction of 3-Phenylthiophene with Styrene (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAYASHI, Yoshihiro; SATOH, Tetsuya; MIURA, Masahiro; KAWAUCHI, Susumu
- 2E3-35** Theoretical study of isomerization mechanism of nitrile N-oxide to isocyanate (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ISHIYAMA, Yuki; HAYASHI, Yoshihiro; TAKATA, Toshikazu; KAWAUCHI, Susumu
- 2E3-36** Theoretical study on the stability of 5-(hydroxymethyl)furfural (Sch.

Sci., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; PRESTO, JST; ESICB, Kyoto Univ.; Inst. for Cat., Hokkaido Univ.) ○TASHIRO, Keisuke; KOBAYASHI, Masato; NAKAJIMA, Kiyotaka; TAKETUGU, Tetsuya

2E3-37* Computational Study of the Through-Resonance Effect Operating on the Skeleton of Phenylboranyl methyl Anions (Sci. Res. Ctr., Hosei Univ.; IMCE, Kyushu Univ.) ○NAKATA, Kazuhide; FUJIO, Mizue

Chair: HIRAI, Katsuyuki (15 : 30~16 : 10)

* 15:20-15:30: interval for laptop PC connection.(2E3-40, 2E3-41, 2E3-42, 2E3-43)

2E3-40 Reactivity of a Half-Parent Diazomethane (Kindai Univ.) ○YAMADA, Kohei; SADAMORI, Kazuya; SUGANO, Kohei; SANO, Yuya; YOSHIMURA, Takayoshi; HATANAKA, Miho; MATSUO, Tsukasa

2E3-41 Development of Supramolecular Photocatalytic Reaction Utilizing Donor-Acceptor Interaction in Host-Guest Complex (Sch. Sci., Tokyo Tech.) ○OSHIMA, Mari; UCHIKURA, Tatsuhiko; TAKAHASHI, Kouhei; IWASAWA, Nobuharu

2E3-42 Reaction Mechanism of Tricyanovinyl of *N*-Substituted Pyrrole (Fac. Sci., Kochi Univ.; Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○SASAKI, Yoshiaki; TAKAHASHI, Sora; ARISAWA, Saori; TANI, Ryota; KANENO, Daisuke

2E3-43 Synthesis of Cyclic Sulfides via Thioetherification of Halogenated Terminal Enone Using Thiourea (Fac. Sci., Kochi Univ.; Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○YOSHINAGA, Yusuke; KANENO, Daisuke

Chair: MORI, Seiji (16 : 20~17 : 00)

* 16:10-16:20: interval for laptop PC connection.(2E3-45, 2E3-46, 2E3-47, 2E3-48)

2E3-45 Origin of characteristic enantiomeric excesses in asymmetric List-Barbas-Mannich reaction in frozen media (Sch. Sci., Tokyo Tech.) ○IIJIMA, Koki; HARADA, Makoto; FUKUHARA, Gaku; OKADA, Tetsuo

2E3-46 Formation of Quinone Imine Derivative via Two-step Photoreaction between Carbonyl Azide and Quinone (Fac. of Sci., Okayama Univ. of Sci.) ○WAKAMATSU, Kan; NISHIMURA, Kohosuke; YAMADA, Haruo

2E3-47 Photochemical Generation of Reactive Oxygen Species from Aryl Methyl Peroxides (Grad. Sch. Sci., Hiroshima Univ.) ○OYAMA, Ryoko; ABE, Manabu

2E3-48 Suppression of Riboflavin-Sensitized Singlet Oxygen Generation (Grad. Fac. Eng., Yokohama Natl. Univ.) ○KIKUCHI, Azusa; SHIMIZU, Ryohei; FUKUCHI, Shirabe; YAGI, Mikio

Room E4

Bldg. 3 344

Education and History of Chemistry

Saturday, March 16, AM

Chair: NAKAGAWA, Tetsuo (9 : 40 ~ 10 : 40)

* 9:30-9:40: interval for laptop PC connection.(1E4-05, 1E4-06, 1E4-07, 1E4-08)

1E4-05 Developing Photochromic Reaction Rate Experiments for High School Education (Kobe Coll. Junior and Senior High School) ○IKEDA, Ikuhiro; OSAKI, Hiroo

1E4-06 Experimental system for understanding characteristic of greenhouse gas based on photoacoustic effects and its practice in high schools. (HUS; Grad. Sch. Env. Sci., Hokkaido Univ.) ○FUKUHARA, Akiko; YAMANAKA, Yasuhiro; KANEKO, Fumitoshi

1E4-07 Verification of the Effectiveness of Image-J Digital Analysis with Respect to the TLC Analysis of Synthesized Azo Dyes (Coll. Sci., Rikkyo Univ.; Rikkyo Niiza Junior and Senior High School) ○NISHINO, Ryohei; WATANABE, Tomohiro

1E4-08 CSJ Award for Merits for Chemical Education Contribution to chemistry education by experience-based training of cutting-edge chemistry and development of new chemistry teaching materials (Nara Municipal Ichijo Senior High Sch.) ○INUBUSHI, Masaji

Chair: NARIAI, Hiroyuki (10 : 50~11 : 50)

* 10:40-10:50: interval for laptop PC connection.(1E4-12)

1E4-12 CSJ Award for Chemical Education Long-term and wide range leadership in the popularization of chemistry education (Osaka Kyoiku Univ.) ○YOKOI, Kunihiko

Sunday, March 17, AM

Chair: YAMAGUCHI, Tadatsugu (9 : 00 ~ 9 : 30)

* 8:50-9:00: interval for laptop PC connection.(2E4-01)

2E4-01 CSJ Award for Merits for Chemical Education Contribution to the Chemical Education through the Educational Practice utilized the

Teaching Materials and the Guidance of Chemistry Club (Miyagi Prefecture Sendai Daisan High Sch.) ○SUGAWARA, Yusuke

Sunday, March 17, PM

Chair: TAKANO, Hiroe (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2E4-25, 2E4-26, 2E4-27, 2E4-28, 2E4-29, 2E4-30)

2E4-25 Determining the structure that causes reducing properties of sugars (Grad. Sch. Sci., TUS) ○MASUDA, Yasuhiro; INOUE, Masayuki

2E4-26 Experimental teaching materials of decarboxylation using carboxylate and solid base (Grad. Sch. Sci., TUS) ○MAEDA, Toshikazu; INOUE, Masayuki

2E4-27 Experiment of light shielding with photo-oxidation of vegetable oils (TUS) ○ITAGAKI, Meimi; INOUE, Masayuki

2E4-28 Production experiment of synthetic detergent using sulfuric acid silica gel (Grad. Sch. Sci., TUS) ○KURIKI, Ayumi; INOUE, Masayuki

2E4-29 Development of experimental teaching materials to synthesize salicylic acid from phenol via salicylaldehyde (Grad. Sch. Mathematics Sci. Edu., TUS) ○NAMIKI, Yuuki; INOUE, Masayuki

2E4-30 Metal leaves of copper precipitated by "reduction of Fehling solution" with alcohol (L.S.H.S.) ○NOGUCHI, Daisuke

Chair: NOGUCHI, Daisuke (14 : 10~14 : 40)

* 14:00-14:10: interval for laptop PC connection.(2E4-32, 2E4-34)

2E4-32* A new control experiment by kitchen science - making bagel and ring bread using the micro-scale method - (Grad. Sch. Mathematics Sci. Edu., TUS) ○SATO, Yoko; OHTA, Hisataka

2E4-34 Teaching practice of high school chemistry that uses a flash card (shitenha-kou) ○TAKANO, Hiroe

Monday, March 18, AM

Chair: MUNEGUMI, Toratane (9 : 40 ~ 10 : 40)

* 9:30-9:40: interval for laptop PC connection.(3E4-05, 3E4-06, 3E4-07, 3E4-08)

3E4-05 GSC Education through Environmentally Benign Experiments (Tohoku Univ.) ○OGINO, Kazuko

3E4-06 The development of a teaching aid based on lac insect in Green and Sustainable Chemistry lessons. (Fac. Sci., Toho Univ.) ○SUGIYAMA, Kazuya; WATANABE, Soichiro; IMAI, Izumi

3E4-07 Microscale experiment on electrical conductivities of some solids and their aqueous solutions using plastic bottle caps (Sch Human Sci., Kobe College) ○NAKAGAWA, Tetsuo

3E4-08 CSJ Award for Merits for Chemical Education Contribution to Science Education through Creation of "Sendai-Miyagi Science Day" (natural science) ○OHKUSA, Yoshie

Chair: IMAI, Izumi (10 : 50~11 : 50)

* 10:40-10:50: interval for laptop PC connection.(3E4-12, 3E4-14, 3E4-16)

3E4-12* The point of view of science education and regional related population in the times of post globalization (Dept. of Commerce, Kumamoto Gekuen Univ.) ○IWAMA, Sekai; ASahi, Fumiyo; TAKAHASHI, Ryu; SASAKI, Tsukasa

3E4-14* Investigating cross-curriculum learning based on subject contents of chemistry (Dept. Nat. Sci. Edu., Naruto Univ. of Edu.) ○MUNEGUMI, Toratane; NARIMITSU, Junya; TAKIMOTO, Hodaka

3E4-16* Gender comparison of learning effect in high school (Fac. Edu., Ehime Univ.) ○HASHI, Atsushi; SAIJOH, Shinsuke

Monday, March 18, PM

Chair: KURIYAMA, Yasunao (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3E4-25, 3E4-26, 3E4-28, 3E4-29, 3E4-30)

3E4-25* playground equipments for children to be familiar with the periodic table (Salesian Polytechnic) ○NAGAO, Akemi; SAKAMOTO, Yasufumi

3E4-26** The Myth concerning Not Hearing Radio-Wave (MK Microwave Research, Micro Patent Office) ○KOIKE, Makoto

3E4-28 Development of teaching materials on candle combustion - Thinking of airflow (NIT, Tokyo College) ○TAKAHASHI, Mitsuo; GOTO, Kenichi; HADA, Yoshihiro; KAWASHIMA, Norimichi

3E4-29 Feed students' scientific thinking ability and judgment in a special lecture on microscale experiment (Hyogo Prefectural Kobe High Sch.) ○NAKAZAWA, Katsuyuki

3E4-30 Synthetic method of phenylindigos enabled in high-school laboratory (Fac. Edu., Gunma Univ.; Fac. Bio., KAIT) ○KOJIMA, Tomoya; HASEGAWA, Hikaru; OHYA, Ryuji; NODA, Takeshi; HIOKI, Hideaki

Chair: SANO, Hiroshi (14 : 10~14 : 50)

* 14:00-14:10: interval for laptop PC connection.(3E4-32, 3E4-33, 3E4-34, 3E4-35)

3E4-32 Acetylation Reaction of Aniline as an Inquiry-based Learning of Organic Synthesis toward Education for Sustainable Development (Grad. Sch. Educ., Hiroshima Univ.) ○KITAZAKI, Ryutarou; AMIMOTO, Kiichi

- 3E4-33** A Teaching Material for Degradation of Cellulose and its Product Analyses (Grad. Sch. Educ., Hiroshima Univ.) ○KOSHIBA, Takashi; AMIMOTO, Kiichi
- 3E4-34** A Teaching Material of Enzyme Kinetics on Hydrolysis of Salicin (Grad. Sch. Educ., Hiroshima Univ.) ○NAKAMURA, Tatsuhito; AMIMOTO, Kiichi
- 3E4-35** A Learning Program for Multilateral Understanding of Enzyme Exemplified by Lysozyme (Grad. Sch. Educ., Hiroshima Univ.) ○OKITA, Kaho; AMIMOTO, Kiichi

Chair: AMIMOTO, Kiichi (15 : 00~15 : 40)

- * 14:50-15:00: interval for laptop PC connection.(3E4-37, 3E4-39, 3E4-40)
- 3E4-37*** Analysis with the Systematized Survey on the History of Technology: CD, Silica Optical Fiber, Antibiotics & Antibacterial, 35mm High End Camera and Stamping Tooling for Motor Core (NMNS) ○KAMEI, Osamu
- 3E4-39** The Simple Detection Method of Sucralose Included in the Food (Fac. Edu., Hiroaki Univ.) ○CHOUNAN, Yukiyasu; ONODERA, Yuta
- 3E4-40** Development of PBL Style Experiment to Obtain a Logical Thinking (Keio Univ.) ○KUBOTA, Mari; OISHI, Takeshi

Chair: CHOUNAN, Yukiyasu (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3E4-42, 3E4-44, 3E4-45, 3E4-47)
- 3E4-42*** Preparation of poly(vinyl alcohol) (PVA) slimes by the use of PVA samples with different values of degree of saponification and practical education (Aichi Univ. of Educ.) ○OSA, Masashi; YAMAMOTO, Saki; NISHIMURA, Yuriko; MATSUSHITA, Koki
- 3E4-44** A Report of the science shows for understanding Fuel Cell using microscale experiments (Fac. Sci., Yamagata Univ.) ○KURIYAMA, Yasunao; OGINO, Kazuko
- 3E4-45*** Electronic expression of solvation on the new chemical structural formula (LOGES) ○SANO, Hiroshi
- 3E4-47** CBT Assesment for General Education in Yamagata University: Application to Chemistry (Inst. of Art and Sci., Yamagata Univ.) ○IJJIMA, Takahiro; SENYO, Katsumi; YASUDA, Jun-ichiro; WATANABE, Eriko

Room E5

Bldg. 3 345

Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

Saturday, March 16, PM

Chair: FURUYAMA, Taniyuki (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1E5-25, 1E5-26, 1E5-27, 1E5-28, 1E5-29, 1E5-30)
- 1E5-25** Oxygenation mechanism in firefly bioluminescence (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ITO, Shinichi; MAKI, Shojiro; HIRANO, Takashi
- 1E5-26** Study on the wavelength modulation mechanism of firefly bioluminescence: fluorescence properties of oxyluciferin enol forms (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○HIRAGA, Shiori; YAMAJI, Minoru; MAKI, Shojiro; HIRANO, Takashi
- 1E5-27** Synthesis of labeling reagents based on a firefly-type multicolor fluorescent dye (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○MISAWA, Rena; YAMAJI, Minoru; MAKI, Shojiro; HIRANO, Takashi
- 1E5-28** Fluorescent /N-heteroarenes having DNA photo-cleaving abilities and photocytotoxicity against HeLa cells (Fac. Eng., Tokushima Univ.) YAGISHITA, Fumitoshi; ○TANIGAWA, Junichi; NII, Chiho; TABATA, Atsushi; NAGAMUNE, Hideaki; IMADA, Yasushi; KAWAMURA, Yasuhiko
- 1E5-29** Toward the supramolecular asymmetric photo/thermo one-pot reactions - Study on complexation behavior and photoreaction of stilbene derivatives mediated by human serum albumin - (IMRAM, Tohoku Univ.) ○KAWAI, Misaki; NISHIJIMA, Masaki; ARAKI, Yasuyuki; MORI, Tadashi; WADA, Takehiko
- 1E5-30** Synthesis and properties of novel AIE dyes having heterocyclic N-Oxide. (FIRST, Konan Univ.) ○SHIMADA, Naoaki; MURASHIMA, Takashi

Chair: SHOJI, Tatsuya (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1E5-32, 1E5-33, 1E5-34, 1E5-35, 1E5-36, 1E5-37)
- 1E5-32** Synthesis, fluorescence and molecular recognition of a (2,7)pyrenophane tethered by methylene chains (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○FUTAESAKU, Ryota; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime
- 1E5-33** Synthesis of 1,8-bis(pyren-1-ylethynyl)biphenylene and its intramolecular excimer emission (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.)

- NAKADA, Rikako; MATSUNO, Yu; HAMAZUKA, Akinobu; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime

- 1E5-34** Unique Sensitivity Changes in Fluorescent Intensity Depending on the Surrounding Media by Formation of a Hydrogen-bonded Complex between a Fluorescent Urea Derivative and Acetates (Fac. Eng., Univ. of Yamanashi) ITO, Nozomu; OBATA, Makoto; ○TAKAHASHI, Masaki
- 1E5-35** Synthesis and Fluorescence Properties of Macrocycles Containing Highly Twisted Bis(N,N')-dialkylamino)arenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○IKEDA, Keisuke; OIZUMI, Tomohisa; KONISHI, Gen-ichi
- 1E5-36** Effects of sulfonamide substituents on the fluorescence properties of 3-amido-substituted phthalimide showing N-H type ESIPT fluorescence (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Grad. Sch. Sci. Tech., Gunma Univ.) ○ITANI, Kazumasa; YAMAJI, Minoru; OKAMOTO, Hideki
- 1E5-37** Solid-state chemiluminescence properties of 1,2-dioxetanes with an arylmethyl side chain (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ISHITANI, Kaoru; YAMAJI, Minoru; MATUHASHI, Chihiro; UEKUSA, Hidehiro; MAKI, Shouhirou; HIRANO, Takashi

Chair: YOSHIMI, Yasuharu (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(1E5-39, 1E5-41, 1E5-43, 1E5-44)
- 1E5-39*** Selective Syntheses of Azoxybenzenes by Photoreactions with Flow Microreactors (WINTEC) ○FUJII, Akira; NISHIYAMA, Yasuhiro; MORI, Hajime
- 1E5-41*** Mechanistic study on photo-reaction of coumarin based caged compounds with D- π -D stilbene structure (Grad. Sch. Sci., Hiroshima Univ.) ○CHITOSE, Youhei; ABE, Manabu; LIN, Tzuchau; CLAUDIN, Katan
- 1E5-43*** Design and Synthesis of Indole-based Photo-labile Protective Groups for Two-photon Uncaging (Grad. Sch. Sci., Hiroshima Univ.) ○LIN, Qianghua; ABE, Manabu
- 1E5-44** Photocycloaddition of cyanonaphthalenes with aromatic cyanoalkynes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○YAMASAKI, Kenta; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime

Sunday, March 17, AM

Chair: MATSUI, Yasunori (9 : 30 ~10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(2E5-04, 2E5-06, 2E5-08, 2E5-09)
- 2E5-04*** Light-driven Photooxygenation of Plastic Surface by Chlorine Dioxide (IACS, Osaka Univ.; OTRI, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Pharm. Sci., Osaka Univ.) ○OHKUBO, Kei; ASAHARA, Haruyasu; INOUE, Tsuyoshi
- 2E5-06*** Organophotoredox and Chiral Chromium Hybrid Catalysis for Catalytic Asymmetric Allylation of Aldehydes with Unactivated Alkenes (Grad. Sch. Pharm., The Univ. of Tokyo) ○MITSUNUMA, Harunobu; TANABE, Syun; FUSE, Hiromu; OHKUBO, Kei; KANAI, Motomu
- 2E5-08** Synthesis of Novel Photocatalyst using 2-Azafluorenones as Functionalized Ligand (Sch. Env. Sci. Eng., KUT) ○ASAHARA, Haruyasu; HORIKAWA, Yurie; OHKUBO, Kei; NISHIWAKI, Nagatoshi
- 2E5-09** Decarboxylative Transformation of Carboxylic Acids Using a New Phenylene-bridged Bisimidazolium Salt as a Photoredox Catalyst (Grad. Sch. Eng., Osaka Univ.) ○KUBO, Maiko; KODAMA, Takuya; OHKUBO, Kei; TOBISU, Mamoru

Chair: OHKUBO, Kei (10 : 40~11 : 20)

- * 10:30-10:40: interval for laptop PC connection.(2E5-11, 2E5-12, 2E5-13, 2E5-14)
- 2E5-11** Development of efficient arylalkoxylation of olefins using continuous flow synthesis (Gifu Pharm. Univ.) ○TAGUCHI, Nao; TANAKA, Wakako; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika
- 2E5-12** Diastereoselective Intramolecular [2+2]Photocycloaddition Reaction between Substituted Naphthoquinone and Alkene. (Grad. Sch. Eng., Osaka Univ.) ○ISHIKAWA, Hiroki; MORI, Tadashi
- 2E5-13** Addition of various nucleophiles to 2-allyl-1,2,3,4-tetrahydroquinoline using C₆₀ as a visible light photoredox catalyst (Coll. Sci. Tech., Nihon Univ.) ○YAMAZAKI, Yuta; HAYAKAWA, Mamiko; AOYAMA, Tadashi; OUCHI, Akihiko
- 2E5-14** Light-Driven Entropically Unfavourable Coupling between N-Methylamine and Aromatic Ketone (Grad. Sch. Eng., Kyoto Univ.) ○HOSOKAWA, Atsushi; IWAMOTO, Takahiro; NAKAMURA, Masaharu

Chair: HATANO, Sayaka (11 : 30~12 : 10)

- * 11:20-11:30: interval for laptop PC connection.(2E5-16, 2E5-17, 2E5-18, 2E5-19)
- 2E5-16** Visible Light-Driven CO₂ Fixation Reaction Without Using Transition Metals (Tokyo Tech.) ○HONDA, Jun; SHIMOMAKI, Katsuya; TORIUMI, Naoyuki; IWASAWA, Nobuharu
- 2E5-17** Synthesis of 1:1 and 2:1 adducts from electron-donor and -acceptor alkenes via photoinduced electron transfer (Grad. Sch. Eng., Univ. of Fukui) ○TANAKA, Yosuke; YOSHIMI, Yasuharu
- 2E5-18** Derivatization of side-chain of glutamic and asparagic acids by photoinduced decarboxylation (Grad. Sch. Eng., Univ. of Fukui)

OSHINKAWA, Yudai; YOSHIMI, Yasuharu

- 2E5-19** Novel Thermally Activated Delayed Fluorescent Material Having Arylsulfonyl Groups: Synthesis and iOLED Fabrication (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○YOKOYAMA, Yudai; ISHIIHARAGUCHI, Kenta; MATSUI, Yasunori; OHTA, Eisuke; NAITO, Hiroyoshi; IKEDA, Hiroshi

Room E6

Bldg. 3 346

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Saturday, March 16, AM

Chair: HACHIYA, Iwao (9:00 ~ 9:50)

- * 8:50-9:00: interval for laptop PC connection.(1E6-01, 1E6-02, 1E6-03, 1E6-04, 1E6-05)
- 1E6-01** Stepwise chirality exchange from central to axial chirality using D-A cyclopropanes (Grad. Sch. Sci. Technol., Shinshu Univ.) ○YAMADA, Satoshi; NISHII, Yoshinori
- 1E6-02** Synthesis of π -conjugated molecules via metal-free C-N coupling (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SENOO, Takahiro; INOUE, Aiko; MORI, Keiji
- 1E6-03**[#] Amination Reactions of 4-Alkyl-1,4-dihydropyridines as Alkylation Reagents with Dialkyl Azodicarboxylates (Grad. Sch. Eng., The Univ. of Tokyo) ○ZHANG, Yulin; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 1E6-04** Diastereoconvergent allylation reactions of diastereomixtures of diarylmethanols with chiral induction catalyzed by FeCl₃ (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○FUJIHARA, Rina; NAKATA, Kenya
- 1E6-05** Development of stereoconvergent chiral inductive diastereodivergent sulfonamidation of diarylmethanols using different Lewis acid catalysts (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○YAMAMOTO, Hiroshi; NAKATA, Kenya

Chair: MORI, Keiji (10:00 ~ 11:00)

- * 9:50-10:00: interval for laptop PC connection.(1E6-07, 1E6-08, 1E6-09, 1E6-11, 1E6-12)
- 1E6-07** The Umpolung Reaction of α -Iminoamide Having a Thiazoline Skeleton (Grad. Sch. Eng., Mie Univ.) ○SUZUKI, Misato; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 1E6-08** The Umpolung Reaction of α -Iminocarbonyl Compounds Having a Thiazoline Skeleton (Grad. Sch. Eng., Mie Univ.) ○FUSAYAMA, Ryou; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 1E6-09**[#] Integrated Synthesis of Nitrogen Containing Compounds Utilizing Umpolung Reaction of β, γ -Alkenyl α -Iminoesters (Grad. Sch. Eng., Mie Univ.) ○MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 1E6-11** Biomimetic synthesis of polyketides using a solid support (IIS, The Univ. of Tokyo) ○TAKEUCHI, Yuta; AKAGAWA, Kengo; KUDO, Kazuaki
- 1E6-12** Synthesis of bromocyclopentene derivatives via intramolecular addition reaction of lithium carbenoid (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YAMAGA, Hideomi; TANINO, Keiji

Chair: SAKAKURA, Akira (11:10 ~ 12:00)

- * 11:00-11:10: interval for laptop PC connection.(1E6-14, 1E6-15, 1E6-16)
- 1E6-14** Development of Weak Acid-promoted Nazarov Reaction based on β -alkoxydivinylketones (IMCE, Kyushu Univ.) ○KAJIWARA, Kohei; IWATA, Takayuki; SHINDO, Mitsuru
- 1E6-15** Electrophilic Amination of Allylic Boranes with Azodicarboxylates as a Nitrogen Source (Grad. Sch. Eng., Osaka Univ.) ○KAINUMA, Shunpei; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 1E6-16** CSJ Award for Young Chemists Development of Molecular Transformations on the Basis of Catalytic Generation of Anionic Species by Organosuperbase (Grad. Sch. Sci., Tohoku Univ.) ○KONDOH, Azusa

Saturday, March 16, PM

Chair: YAMANAKA, Masahiro (13:10 ~ 14:10)

- * 13:00-13:10: interval for laptop PC connection.(1E6-26, 1E6-29, 1E6-30, 1E6-31)
- 1E6-26** CSJ Award for Young Chemists Multipoint Recognition of Molecular Conformations with Organocatalysts for Asymmetric Synthetic Reactions (Grad. Sch. Eng., Kyoto Univ.) ○ASANO, Keisuke
- 1E6-29** Enantioselective Propargylic Substitution Reaction Catalyzed by Chiral Brønsted acid (Grad. Sch. Sci., Tohoku Univ.) ○TAKANO, Kyohei; OTA, Yusuke; KIKUCHI, Jun; TERADA, Masahiro
- 1E6-30** Enantioselective Friedel-Crafts Alkylation Reaction with non-activated β -Alkyl- β -Nitrostyrenes Catalyzed by Chiral BINOL Phosphates (Fac. Sci., Gakushuin Univ.) ○KANEKO, Mio; IBÁÑEZ SÁNCHEZ,

Ignacio; TAKAHIKO, Akiyama

- 1E6-31** Reactivity of organic amido azides in propargyl cation-mediated triazole synthesis (Grad. Sch. Sci. & Tech., NAIST) ○ONISHI, Seiji; TANIMOTO, Hiroki; KAKIUCHI, Kiyomi

Chair: MOMIYAMA, Norie (14:20 ~ 15:20)

- * 14:10-14:20: interval for laptop PC connection.(1E6-33, 1E6-35, 1E6-36, 1E6-37, 1E6-38)
- 1E6-33**[#] Boron Lewis Acid-Assisted Chiral Phosphoric Acid Catalysts for Multiselective [2+2] and [4+2] Cycloadditions (Grad. Sch. Eng., Nagoya Univ.) ○SAKAMOTO, Tatsuhiro; MOCHIZUKI, Takuya; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E6-35** Enantioselective Strecker-type Reaction of Aldimines Catalyzed by Chiral Lithium Binaphthylsulfonates (Grad. Sch. Eng., Nagoya Univ.) ○NISHIO, Kosuke; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E6-36** Mechanistic Insight of Acylation Using Phosphoric Acid Catalysts and Acid Anhydrides (Grad. Sch. Eng., Nagoya Univ.) ○HAYASHI, Hiroyuki; YASUKOCHI, Shotaro; SAKAMOTO, Tatsuhiro; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E6-37** Enantioselective Reductive Amination Reaction of β -Tetralones Using Benzothiazoline as a Hydrogen donor in combination with Chiral Phosphoric acid (Fac. Sci., Gakushuin Univ.) ○OSHITOBE, Chika; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 1E6-38** Chiral Strong Brønsted Acid-Catalyzed Asymmetric Carbonyl-Ene Reaction of 1,1,2-Trisubstituted Olefins with Glyoxylate (Grad. Sch. Sci., Tohoku Univ.) ○AIZAWA, Yuki; KIKUCHI, Jun; TERADA, Masahiro

Chair: MIYAGAWA, Masamichi (15:30 ~ 16:20)

- * 15:20-15:30: interval for laptop PC connection.(1E6-40, 1E6-41, 1E6-43)
- 1E6-40** Synthesis of Amide Utilizing Enantioselective Cycloaddition Reaction of Vinyl Azides with Imines Catalyzed by Chiral Brønsted Acid (Grad. Sch. Sci., Tohoku Univ.) ○NAKANISHI, Taishi; KIKUCHI, Jun; KAGA, Atsushi; CHIBA, Shunsuke; TERADA, Masahiro
- 1E6-41**[#] Development of Highly Acidic Conjugate-Base-Stabilized Brønsted Acid Organocatalysts and Their Application to Enantioselective Intramolecular 6p-Electrocyclization of Hydrazones (Dept. Chem., Univ. of Florida; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ODAGI, Minami; ROMERO-REYES, A., Moises; SEIDEL, Daniel
- 1E6-43**[#] Catalytic Dehydrative Peptide Synthesis with *gem*-Diboron Acids (Grad. Sch. Pharm. Sci., Kyoto Univ.) ○MICHIGAMI, Kenichi; SAKAGUCHI, Tatsuhiro; TAKEMOTO, Yoshiji

Chair: ASANO, Keisuke (16:30 ~ 17:20)

- * 16:20-16:30: interval for laptop PC connection.(1E6-46, 1E6-48, 1E6-50)
- 1E6-46**[#] Brønsted Acid-Initiated chain reaction of β -substituted ene-aldimines (Sch. Physical Sci., SOKENDAI) ○JONGWOHAN, Chantantida; HONDA, Yasuishi; SUZUKI, Toshiyasu; MOMIYAMA, Norie
- 1E6-48**[#] Tris(pentafluorophenyl)borane-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective Carbonyl-Ene Cyclization (Grad. Sch. Eng., Nagoya Univ.) ○MOCHIZUKI, Takuya; ISHIIHARA, Hideyuki; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 1E6-50** Enantioselective Aza-Friedel-Crafts Reaction of Pyrroles and Indoles Catalyzed by Chiral C₁-Symmetric Bis(phosphoric acid) (Grad. Sch. Eng., Nagoya Univ.) ○TOH, Kohei; HATANNO, Manabu; ISHIIHARA, Kazuaki

Chair: HATANNO, Manabu (17:30 ~ 18:20)

- * 17:20-17:30: interval for laptop PC connection.(1E6-52, 1E6-54, 1E6-55, 1E6-56)
- 1E6-52**[#] Chiral Brønsted Acid-Catalyzed Formal α -Vinylolation of Ketones for the Enantioselective Construction of Quaternary Carbon Centre (Grad. Sch. Sci., Tohoku Univ.) ○SATAVISHA, Kayal; KIKUCHI, Jun; TERADA, Masahiro
- 1E6-54** Enantioselective Friedel-Crafts Alkylation Reaction of Heteroaromatics to Trifluoromethylated N-H Ketimines by Means of Chiral Phosphoric Acid (Fac. Sci., Gakushuin Univ.) ○YOSHIDA, Masaru; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 1E6-55** Enantioselective Friedel-Crafts Alkylation Reaction of 4,7-dihydroindole to Trifluoromethylated N-H ketimines by means of Chiral Phosphoric Acid (Fac. Sci., Gakushuin Univ.) ○SUZUKI, Riku; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 1E6-56** Asymmetric Reduction of Tertiary Indolylmethanol with Benzothiazoline by Means of Chiral Phosphoric Acid (Grad. Sch. Sci. and Technol., Gakushuin Univ.) ○OSAKABE, Hiroto; AKIYAMA, Takahiko; MIYAGAWA, Masamichi

Sunday, March 17, AM

Chair: OHMATSU, Kohsuke (9:00 ~ 10:00)

- * 8:50-9:00: interval for laptop PC connection.(2E6-01, 2E6-02, 2E6-03, 2E6-04, 2E6-05, 2E6-06)
- 2E6-01** Aldehyde Acylation of Allylic Alcohols or Allylic Amines through Synergistic N-Heterocyclic Carbene/Palladium Catalysis (Kanazawa Univ.) ○OHNISHI, Nagisa; HARUKI, Hiroki; NAGAO, Kazunori; YASUDA, Shigeo; OHMIYA, Hirohisa
- 2E6-02** N-Heterocyclic Carbene-Catalyzed Decarboxylative Alkylation of

Aldehydes (Kanazawa Univ.) ○ISHII, Takuya; KAKENO, Yuki; NAGAO, Kazunori; OHMIYA, Hirohisa

- 2E6-03** Synthesis of Ketones through N-Heterocyclic Carbene-Catalyzed Decarboxylative Alkylation of Aldehydes (Kanazawa Univ.) ○KAKENO, Yuki; ISHII, Takuya; NAGAO, Kazunori; OHMIYA, Hirohisa
- 2E6-04** Enantioselective 1,3-Dipolar Cycloaddition of α -Substituted acroleins with Nitrones Catalyzed by Chiral Organammonium salts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KIDOU, Chihiro; MIZOGUCHI, Haruki; SAKAKURA, Akira
- 2E6-05** Investigation of Asymmetric Direct Mannich Reaction of α -ketoesters Promoted by Chiral Lewis Acid Catalyst (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MIYAKE, Mayu; SHIGEMORI, Keisuke; HAYAKAWA, Ichiro; SAKAKURA, Akira
- 2E6-06** Development of Metal-Bisamidine Catalyzed Asymmetric Vinylogous Mukaiyama Aldol Reaction of α -Ketoesters (Grad. Sch. Sci., Rikkyo Univ.) ○KURITA, Tomomi; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro

Chair: MOMIYAMA, Norie (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2E6-08, 2E6-10, 2E6-11, 2E6-12, 2E6-13)

- 2E6-08[#]** Hybrid Catalysis for Catalytic Stereoconversion of L-Amino Acid Derivatives to D-Isomers (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○NAGATO, Yuya; OHMATSU, Kohsuke; OOI, Takashi
- 2E6-10** Palladium-halide ion hybrid catalysis for enabling allylation of weakly acidic carbonyl compounds with allylic carbonates (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○MATSUYAMA, Naho; OHMATSU, Kohsuke; OOI, Takashi
- 2E6-11** Development of A Structurally Robust Chiral Borate Ion and Its Application to Anion-Directed Asymmetric Catalysis (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○UEOKA, Fumito; URAGUCHI, Daisuke; OOI, Takashi
- 2E6-12** Highly Enantioselective Friedel-Crafts Alkylation of N,N-Dialkyl Aniline with β -Nitrostyrene Catalyzed by Chiral MOF (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○SAKURAGI, Kenji; OKISHIO, Yumi; TANAKA, Koichi
- 2E6-13** Development of Chiral Bromonium Salts and Their Applications as Halogen-bonding Catalyst (Fac. Eng., Chiba Univ.) ○ISHIKAWA, Seitaro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

Chair: YOSHIDA, Yasushi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2E6-15, 2E6-16, 2E6-17, 2E6-18, 2E6-19, 2E6-20)

- 2E6-15** Construction of a Chiral Quaternary Carbon by Catalytic Asymmetric Alkylation of Lactams Using a Chiral Phase Transfer Catalyst (Dep. Chem., Sch. Sci., Kyoto Univ.) ○INUKAI, Tomoaki; KANO, Taichi; MARUOKA, Keiji
- 2E6-16** Development of a novel chiral amino sulfonamide catalyst and its applications in asymmetric reaction (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKESHIMA, Aika; KANO, Taichi; MARUOKA, Keiji
- 2E6-17[#]** Enantioselective Mannich Reaction of Z-Ketimines using a Secondary Amine Catalyst (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HOMMA, Chihiro; MARUYAMA, Hiroki; KANO, Taichi; MARUOKA, Keiji
- 2E6-18** Halogen bond donor ability and catalytic activity of iodoprefluorobenzene by substituent effects at the para-position (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○IZUMISEKI, Atsuto; MOMIYAMA, Norie
- 2E6-19** Bis(pyridine)iodonium as Organo Lewis Acid Complex Catalyst for Mukaiyama Aldol Reaction (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) MASUI, Yu; FUJINAMI, Takeshi; IZUMISEKI, Atsuto; ○MOMIYAMA, Norie
- 2E6-20** Onium Triiodide as Organo Lewis Acid-Lewis Base Catalyst for Carbon-Carbon Bond Forming Reaction (LCCMS, IMS) ○FUJINAMI, Takeshi; MOMIYAMA, Norie

Sunday, March 17, PM

Chair: YAMASHITA, Yasuhiro (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2E6-28, 2E6-31, 2E6-32, 2E6-33)

- 2E6-28[#] Young Scholar Lectures of CSJ** Development of Greener Synthetic Methods of Amines Having Tetrasubstituted Carbon Stereocenters (Grad. Sch. Pharm., Kyushu Univ.) ○MORIMOTO, Hiroyuki
- 2E6-31** Construction of 7-Membered Carbocycles by [1,6]-Hydride Shift triggered C(sp³)-H Bond Functionalization (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OTAWA, Yuna; MORI, Keiji
- 2E6-32** 6-endo-Hydride Shift Mediated Expeditious Construction of Multi-Substituted Indole Skeleton Having Contiguous Stereogenic Centers (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HATTORI, Kiyofumi; MORI, Keiji
- 2E6-33** Construction of all-carbon spiro skeleton by internal redox reaction/Friedel-Crafts reaction sequence (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SANO, Hiroki; TAMURA, Risa; MORI, Keiji

Chair: MORI, Keiji (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2E6-35, 2E6-37, 2E6-38, 2E6-39, 2E6-40)

- 2E6-35[#]** Development of Robust Metal Complexes Using Immobilized Chiral 2,2'-Bipyridine Ligand for Enantioselective Reactions in Water (Grad. Sch. Sci., The Univ. of Tokyo) ○LU, Fangqiu; KITANOSONO, Taku; KOBAYASHI, Shu
- 2E6-37** Development of Highly Stable and Active Cationic Chiral 2,2'-Bipyridine Palladium Complexes in Water (Grad. Sch. Sci., The Univ. of Tokyo) ○HISADA, Tomoya; KITANOSONO, Taku; KOBAYASHI, Shu
- 2E6-38[#]** Pictet-Spengler-type Reactions using Metal Cation-Exchanged Montmorillonites in Water (Sch. Sci., The Univ. of Tokyo) ○CHO, Soomin; KITANOSONO, Taku; KOBAYASHI, Shu
- 2E6-39** Generation and amplification of chirality in the Strecker synthesis of α -(1-naphthyl)glycine nitrile forming conglomerate (Department of Applied Chemistry, Tokyo University of Science) ○TANAKA, Yudai; AIBA, Shohei; KAWASAKI, Tsuneomi
- 2E6-40** Enantioselective synthesis of benzhydrylamine with hydrogen isotope (D/H) chirality and its use for asymmetric Strecker amino acids synthesis (2) (Department of Applied Chemistry, Tokyo University of Science) ○SAIJO, Taiki; KUBO, Hiroki; KAWASAKI, Tsuneomi

Chair: KITANOSONO, Taku (15 : 50~16 : 30)

* 15:40-15:50: interval for laptop PC connection.(2E6-42, 2E6-43, 2E6-44)

- 2E6-42** Design of Chiral Ligand for Iron(III)-silver(I)-catalyzed Enantioselective Conia-ene Reaction (Grad. Sch. Eng., Nagoya Univ.) ○SAKAKIBARA, Masato; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 2E6-43** Chiral Diphosphine Oxide-Iron(II) Catalysts for Enantioselective Oxidative Coupling of 7-Substituted 2-Naphthols (Grad. Sch. Eng., Nagoya Univ.) ○NAKAGAWA, Keita; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 2E6-44[#]** Asymmetric hetero-Diels-Alder reaction of non-activated substrates utilizing dual activation of cationic Fe(III) Lewis acid and chiral Bronsted acid (Grad. Sch. Eng., Kyoto Univ.) ○TOMIFUJI, Rei; KURAHASHI, Takuya; MATSUBARA, Seiji

Chair: MORIMOTO, Hiroyuki (16 : 40~17 : 20)

* 16:30-16:40: interval for laptop PC connection.(2E6-47, 2E6-48, 2E6-49, 2E6-50)

- 2E6-47** Construction of All-Carbon Quaternary Center by Stereoselective Semi-pinacol Rearrangements of Optically Active Epoxy Alcohols (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HIRAMA, Naomichi; SAKAMOTO, Ryu; MARUOKA, Keiji
- 2E6-48[#]** Lewis acid-catalyzed Petasis-type reaction between in-situ generated N-Boc-protected imines and alkynyl boronate esters (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YASUMOTO, Kento; KANO, Taichi; MARUOKA, Keiji
- 2E6-49** Dynamic Asymmetric Esterification of a Mixture of Stereoisomers of Aryldipropionic Acids Using MA-BTM Combined System (Fac. Sci., TUS) MURATA, Takatsugu; ○TAKAMA, Manami; NAKATA, Kenya; SHIINA, Isamu
- 2E6-50** Formylation of hydrazide and amine by at room temperature (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SAKURAI, Masayoshi; KIHARA, Nobuhiro

Asian International Symposium - Organic and Green Chemistry -

Monday, March 18, PM

(13 : 00~13 : 10)

- 3E6-25[#] Opening Remarks / Closing Remarks** Opening Remarks (Kyushu Univ.) ○Tomooka, Katsuhiko (13:00~13:10)

Chair: Ito, Hajime (13 : 10~14 : 30)

- 3E6-26[#] Keynote Lecture** Cobalt-Catalyzed Asymmetric Borylative Functionalization of Unsaturated Organic Molecules (National Univ. of Singapore) ○Ge, Shaozhong (13:10~13:40)
- 3E6-29[#] Invited Lecture** Design of Organic Bases for Enantioselective Catalysis (Kyoto Univ.) ○Asano, Keisuke (13:40~14:00)
- 3E6-31[#] Keynote Lecture** Axial Chirality Chemistry: Asymmetric Catalysis and Applications (Southern Univ. of Science and Technology of China) ○Tan, Bin (14:00~14:30)

Chair: Shing, Tony (14 : 40~15 : 50)

- 3E6-35[#] Invited Lecture** Development of Chiral Supramolecular Catalysts for Multiselective Diels-Alder Reaction (Nagoya Univ.) ○Hatano, Manabu (14:40~15:00)
- 3E6-37[#] Keynote Lecture** Ynamide coupling reagent: discovery and application (Jiangxi Normal Univ.) ○Zhao, Junfeng (15:00~15:30)
- 3E6-40[#] Invited Lecture** Stereocontrolled construction of highly functionalized core in natural product synthesis (Keio Univ.) ○Saikawa, Yoko (15:30~15:50)

Chair: Takashi Ohshima (16 : 00~17 : 20)

- 3E6-43[#] Keynote Lecture** Palladium-Catalyzed Three-Component Cross-Coupling Reactions for Accessing Polycyclic Arenes (The Chinese

Univ. of Hong Kong) ○Kwong, Fuk Yee (16:00~16:30)

3E6-46[#] Invited Lecture Rhodium-catalyzed Synthesis of Unsymmetric Di(heteroaryl) Compounds Using Heteroaryl Exchange Reactions (Tohoku Univ.) ○Arisawa, Mieko (16:30~16:50)

3E6-48[#] Asia Special Lecture Enantioselective Carbon-Carbon Bond Formation Catalyzed by Camphorsulfonamide-hydroxyProline Coupled Catalyst (National Tsing Hua Univ.) ○Uang, Bing-Jiun (16:50~17:20)

(17:20~17:30)

3E6-51[#] Opening Remarks / Closing Remarks Closing Remarks (Nagoya Univ.) ○Ishihara, Kazuaki (17:20~17:30)

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Tuesday, March 19, AM

Chair: SAKAGUCHI, Kazuhiko (10:00~11:00)

* 9:50-10:00: interval for laptop PC connection.(4E6-07, 4E6-08, 4E6-09, 4E6-10, 4E6-11)

4E6-07 Enantioselective α -Fluorination Reaction of N-Acyl-3,5-Dimethylpyrazoles Induced by Chiral π -Copper(II) Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○NISHIMURA, Kazuki; YAMAKAWA, Katsuya; ISHIIHARA, Kazuaki

4E6-08[#] A Chiral π -Cu(II) Complex-catalyzed [1,3] or [3,3] O-to-C Rearrangements of Allyl/Benzyl Naphthyl Ethers (Graduate School of Engineering, Nagoya Univ.) ○YAO, Lu; ISHIIHARA, Kazuaki

4E6-09[#] Sequential *trans*-Hydroalumination and Metal-Catalyzed Carboxylation of Propargyl Alcohols and Amines (Grad. Sch. Sci., The Univ. of Tokyo) ○CHEN, Wenlong; YOO, Woo-jin; KOBAYASHI, Shu

4E6-10 Chiral multinuclear Zn complex-catalyzed intermolecular asymmetric iodostereofication of α -methylstyrenes (Grad. Sch. Sci., Chiba Univ.) ○HORIGANE, Kodai; ARAI, Takayoshi

4E6-11^{*} Development of Chiral Alkaline Metal Strong Base Catalysts and Application to Asymmetric Addition Reactions of Weakly Acidic Compounds (Grad. Sch. Sci., The Univ. of Tokyo) ○YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: TANABE, Yoo (11:10~12:10)

* 11:00-11:10: interval for laptop PC connection.(4E6-14, 4E6-16, 4E6-17, 4E6-18, 4E6-19)

4E6-14^{#*} Cu(I)-catalyzed Regio- and Enantioselective Cyanoborylation of Terminal Allenes (RIKEN CSRS) ○LI, Zhenghua; ZHANG, Liang; HOU, Zhaomin

4E6-16 Synthesis of Tetrahydropyranones Using β -Silyl- γ -ethylidene- γ -butyrolactones (Grad. Sch. Sci., Osaka City Univ.) ○ARIYOSHI, Shoma; SAKAGUCHI, Kazuhiko; NISHIMURA, Takahiro

4E6-17[#] Synthesis of Benzoic Acid Derivatives via Copper-Catalyzed Carboxylation of Unactivated Aryl Silanes (Grad. Sch. Sci., The Univ. of Tokyo) ○YOO, Woo-jin; KONDO, Junpei; KOBAYASHI, Shu

4E6-18 Stereoselective Addition of Boron into α, β -unsaturated Imide (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○FURUYA, Shun; HOSOKAWA, Seiji

4E6-19 Copper-catalyzed enantioselective intramolecular etherification of propargylic esters: Synthetic approach to chiral isochromans (Grad. Sch. Eng., The Univ. of Tokyo) ○LIU, Shiyao; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Room F1

Bldg. 3 351

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Saturday, March 16, AM

Chair: UEDA, Mitsuhiro (9:00~10:00)

* 8:50-9:00: interval for laptop PC connection.(1F1-01, 1F1-02, 1F1-03, 1F1-04, 1F1-05)

1F1-01 Design and Synthesis of Dynamic Chiral Chromone (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) KAWASAKI, Yuuya; ○IMOTO, Yuki; TOMOOKA, Katsuhiko

1F1-02 Ring Enlarging [1,2]-Brook Rearrangement of Chiral 2-Hydroxy Silacyclopentane (Grad. Sch. Eng. Sci., Kyushu Univ.; IMCE, Kyushu Univ.) ○KUROO, Akihiro; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

1F1-03 Asymmetric Construction of Contiguous Tetrasubstituted Chiral Carbons in Oxadecalin Synthesis Using Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.) ○WADA, Yuuki; ASANO, Keisuke; MATSUBARA, Seiji

1F1-04 Asymmetric Cycloetherification via Desymmetrization of gem-Diols Using Bifunctional Organocatalysts (Grad. Sch. Eng., Kyoto Univ.)

○MURATA, Ryuichi; MATSUMOTO, Akira; ASANO, Keisuke; MATSUBARA, Seiji

1F1-05^{#*} Organocatalytic Enantio- and Diastereoselective Acetalization of δ -Oxoenones via Cyanohydrin Formation (Grad. Sch. Eng., Kyoto Univ.)

○MATSUMOTO, Akira; ASANO, Keisuke; MATSUBARA, Seiji

Chair: HASHIMOTO, Takuya (10:10~11:10)

* 10:00-10:10: interval for laptop PC connection.(1F1-08, 1F1-10, 1F1-11, 1F1-12, 1F1-13)

1F1-08^{#*} Radical Cation-induced [4 + 2] and [2 + 2] Cycloadditions Initiated by Iron(III) Salts (Grad. Sch. Eng., Nagoya Univ.) ○OHMURA, Shuhei; HORIBE, Takahiro; ISHIIHARA, Kazuaki

1F1-10 Radical Cation-induced [2 + 2] Cycloaddition of α, β -Unsaturated Carbonyl Compounds with Styrenes Initiated by Iron(III) Salts (Grad. Sch. Eng., Nagoya Univ.) ○KATAGIRI, Kei; OHMURA, Shuhei; HORIBE, Takahiro; ISHIIHARA, Kazuaki

1F1-11 Aminium Radical Cation Initiator for the Synthesis of 1-Arylcycloprop-1-enes from Styrenes with 1,3-Dienes (Grad. Sch. Eng., Nagoya Univ.) ○HIRAMATSU, Rin; OHMURA, Shuhei; HORIBE, Takahiro; ISHIIHARA, Kazuaki

1F1-12 K2S2O8 Mediated Site-Selective C-H Vinylation of Cyclic Ketones (Grad. Sch. Sci., Osaka Pref. Univ.) ○KAMIKAWA, Kazuya; UEDA, Mitsuhiro; FUKUYAMA, Takahide; RYU, Ilhyong

1F1-13 Transition Metal-Free Aminocarbonylation Reaction of Vinyl Iodides (Grad. Sch. Sci., Osaka Pref. Univ.) ○BANDO, Takanobu; FUKUYAMA, Takahide; RYU, Ilhyong

Chair: HORIBE, Takahiro (11:20~12:20)

* 11:10-11:20: interval for laptop PC connection.(1F1-15, 1F1-16, 1F1-18, 1F1-19, 1F1-20)

1F1-15 Exploring a Methodology for Constructing Two Contiguous All Carbon Quaternary Centers Using Stable Carbon Radicals (RIKEN CPR; RIKEN CSRS) ○OHNISHI, Rikako; SUGAWARA, Masumi; AKAKABE, Mai; SOHTOME, Yoshihiro; KOSHINO, Hiroyuki; SODEOKA, Mikiko

1F1-16^{*} Catalytic asymmetric [3+2] cycloaddition of α -ketoester enolates with C-cyanonitriles (RIKEN CPR; RIKEN CSRS) ○EZAWA, Tetsuya; ADACHI, Masaya; AKAKABE, Mai; SOHTOME, Yoshihiro; SODEOKA, Mikiko

1F1-18 Development of Enantioselective *para*-Hydrative Dearomatization of Anilides with Organoiodine Catalyst (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SHIMAZAKI, Yuto; HASHIMOTO, Takuya; MARUOKA, Keiji

1F1-19 Design of *N*-Hydroxybenzimidazole Derivatives as New Organoradical Catalyst (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YOSHII, Tomomi; SAKAMOTO, Ryu; MARUOKA, Keiji

1F1-20 Direct Synthesis of Ynones from Aldehydes via C-H Alkynylation with *N*-Hydroxybenzimidazole Catalyst (Fac. Sci., Kyoto Univ.) ○TSUZUKI, Saori; SAKAMOTO, Ryu; MARUOKA, Keiji

Saturday, March 16, PM

Chair: TAKIZAWA, Shinobu (13:30~14:30)

* 13:20-13:30: interval for laptop PC connection.(1F1-28, 1F1-29, 1F1-30, 1F1-31, 1F1-33)

1F1-28 Development of Catalytic Addition Reactions of Alkylarenes with β -Substituted Vinylsilanes Using Strong Bases as Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SATO, Io; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

1F1-29 Development of Catalytic Direct-type C-C Bond Formation with Simple Alkenes (Grad. Sch. Sci., The Univ. of Tokyo) ○FUKUYAMA, Ryota; SATO, Io; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

1F1-30 Development of Asymmetric Addition Reactions of Alkylarenes with Imines Enabled by Chiral Strong Base Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○HIRATA, Tsubasa; SATO, Io; SUZUKI, Hirotsugu; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

1F1-31^{#*} DNP-NMR Spectroscopy for Polymer-supported Alkylammonium Salt Catalyst (IRC3, AIST; ETH Zurich) ○TANAKA, Shinji; LIAO, Weichih; OGAWA, Atsuko; SATO, Kazuhiko; COPERET, Christophe

1F1-33[#] Helically Chiral Nucleophilic Polymer Catalyst for Asymmetric Acyl Rearrangement of Oxindole Derivatives (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Takuya; MURAKAMI, Ryo; YAMAMOTO, Takeshi; SUGINOME, Michinori

Chair: YAMASHITA, Yasuhiro (14:40~15:30)

* 14:30-14:40: interval for laptop PC connection.(1F1-35, 1F1-36, 1F1-37, 1F1-38, 1F1-39)

1F1-35 Synthesis of Biarylazacyclooctynone (BARAC) Derivatives by Deprotonation of Enol Triflates (Grad. Sch. Eng., Kobe Univ.) ○HIOKI, Yuto; ITO, Mayu; OKANO, Kentaro; MORI, Atsunori

1F1-36 Trapping of Short-lived Aromatic Carbanion by Zinc Chloride-Diamine Complex (Grad. Sch. Eng., Kobe Univ.) ○YUKIOKA, Taro; OKANO, Kentaro; MORI, Atsunori

1F1-37 Functionalization of Bromofuran Derivatives Based on in situ Transmetalation (Grad. Sch. Eng., Kobe Univ.) ○HIRAI, Suguru; MARI, Daichi; OKANO, Kentaro; MORI, Atsunori

1F1-38 Catalytic Asymmetric Alkylation Reaction of α -Iminoesters Through Umpolung Strategy (Grad. Sch. Eng., Chiba Univ.) ○OMORI, Kazuki;

YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

- 1F1-39[#]** Enantioselective organocatalytic construction of a chiral quaternary carbon center (Grad. Sch. Sci., Osaka Univ.) ○HANATANI, Yutaro; KONDO, Masaru; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: KONDOH, Azusa (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1F1-41, 1F1-42, 1F1-44, 1F1-45, 1F1-46)

- 1F1-41[#]** A new synthetic method for axially chiral compounds via an organocatalyst (I) (Grad. Sch. Sci., Tohoku Univ.) ○TAKIKAWA, Akira; KOSHINO, Seitaro; UMEMIYA, Shigenobu; HAYASHI, Yujiro

- 1F1-42[#]** A new synthetic method for axially chiral compounds via an organocatalyst (II) (Grad. Sch. Sci., Tohoku Univ.) ○KOSHINO, Seitaro; KWON, Eunsang; TANIGUCHI, Tohru; MONDE, Kenji; HAYASHI, Yujiro

- 1F1-44** Development of Catalytic Asymmetric Direct Mannich-type Reactions of Simple Amides (Grad. Sch. Sci., The Univ. of Tokyo) ○NOGUCHI, Aika; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

- 1F1-45** Development of Catalytic Asymmetric Direct Mannich-type Reactions of Simple Esters (Grad. Sch. Sci., The Univ. of Tokyo) ○FUSHIMI, Seiya; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

- 1F1-46[#]** Development of Strong Base-Photocatalyst Hybrid Systems for Catalytic Carbon-Carbon Bond Forming Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○BAS, Sebastian; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: MANDAI, Hiroki (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(1F1-48, 1F1-49, 1F1-50, 1F1-51, 1F1-52, 1F1-53)

- 1F1-48** Lewis Base-Iodine Cooperative Catalysts for Iodolactonization for the Construction of Medium Sized Rings and the Effect of Iodine (Grad. Sch. Eng., Nagoya Univ.) ○TSUJI, Yasutaka; HORIBE, Takahiro; ISHIHARA, Kazuaki

- 1F1-49** Chiral Secondary Amine-Boronic Acid Cooperative Catalysts for Enantioselective 1,4-Addition of α, β -Unsaturated Carboxylic Acids with Ketones (Grad. Sch. Eng., Nagoya Univ.) ○HAZEYAMA, Takashi; NAKATA, Yuto; TSUJI, Yasutaka; HORIBE, Takahiro; ISHIHARA, Kazuaki

- 1F1-50** Boronic Acid-catalyzed Dehydrative Condensation between Carboxylic Acids and Amines Directed towards the Peptide Synthesis (Grad. Sch. Eng., Nagoya Univ.) ○ISHIKAWA, Tatsuya; HORIBE, Takahiro; ISHIHARA, Kazuaki

- 1F1-51** Stereoselective Synthesis of Multi-Substituted Allylic Alcohols Utilizing [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○TASATO, Naoko; AOKI, Takuma; KONDOH, Azusa; TERADA, Masahiro

- 1F1-52** Catalytic Allylic Alkylation Utilizing [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○AOKI, Takuma; KONDOH, Azusa; TERADA, Masahiro

- 1F1-53** Development of Silylative Kinetic Resolution of Racemic 1-Indanols Catalyzed by Chiral Guanidine (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○YOSHIMATSU, Shuhei; YAMADA, Akira; NAKATA, Kenya

Chair: YAMAMOTO, Takeshi (18 : 00~18 : 40)

- * 17:50-18:00: interval for laptop PC connection.(1F1-55, 1F1-56, 1F1-57, 1F1-58)

- 1F1-55** Phosphazene Base-Catalyzed Nucleophilic Substitution Reaction of gem-Difluoroalkenes Providing Monofluoroalkenes (Grad. Sch. Sci., Tohoku Univ.) ○KODA, Kazumi; KONDOH, Azusa; TERADA, Masahiro

- 1F1-56** Development of Chiral Strong Brønsted Base Catalyst Utilizing Ureates as Basic Site (Grad. Sch. Sci., Tohoku Univ.) ○ISHIKAWA, Sho; KONDOH, Azusa; TERADA, Masahiro

- 1F1-57** Acylative Desymmetrization of *Meso*-1,3-Diols by Chiral DMAP Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HIRONAKA, Tsubasa; MANDAI, Hiroki; SUGA, Seiji

- 1F1-58** Kinetic Resolution of Axially Chiral Biaryl Compounds using Chiral DMAP Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MATSUURA, Yuichiro; NAKAMURA, Ryota; TAKEDA, Naohumi; MANDAI, Hiroki; SUGA, Seiji

Sunday, March 17, AM

Chair: HACHIYA, Iwao (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F1-01, 2F1-02, 2F1-03, 2F1-04, 2F1-05, 2F1-06)

- 2F1-01** Biological Evaluation of the Modified Nafloxidine Derivatives Prepared by the Three-component Coupling Reaction among Aromatic Aldehydes, Allyltrimethylsilane and Methoxybenzene (Fac. Sci., TUS) SHIINA, Isamu; ○TSUCHIYA, Kaho; TSUGAWA, Shou; TAKANO, Tomohiro; TAKEUCHI, Kazuma; TAGUCHI, Shotaro; SAWADA, Yuki; NAKATA, Kenya; SHIMONAKA, Motoyuki

- 2F1-02** Stereo-defined template-synthesis of Tamoxifens those are based on (E)-1-bromo-2-iodoalkenes. (Fac. Sci. Tech., Ryukoku Univ.) ○FUJII, Yoshino; TAMURA, Yuka; HASHIMOTO, Nako; ENDO, Naoki; IWASAWA, Tetsuo

- 2F1-03** Exploration into Novel Reactivity of Dibromozerumbone under

Reductive Conditions (Grad. Sch. Agr. Sci., Kindai Univ.)

○MOTOMURA, Kou; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; HASHIGAYA, Kousuke; KITAYAMA, Takashi

- 2F1-04** Synthesis of novel ascofuranone derivatives acting as an inhibitor for dihydroorotate dehydrogenase. (Grad. Sch. Eng., Tottori Univ.) ○IWASAKI, Ryo; TAMURA, Sayuri; YAMAMOTO, Masaichi; KITA, Kiyoshi; IZAWA, Hironori; IFUKU, Shinsuke; MORIMOTO, Minoru; SAIMOTO, Hiroyuki

- 2F1-05** Construction of Caged Skeleton Based on Intramolecular Alkylation of Bromonitriles (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○KATO, Kosuke; TANINO, Keiji

- 2F1-06** Synthetic study of planar chiral anthracenophane derivatives (Sch. Sci., Tokyo Tech.) ○UEDA, Yasuyuki; SUZUKI, Keisuke; OHMORI, Ken

Chair: TONOI, Takayuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F1-08, 2F1-09, 2F1-10, 2F1-11, 2F1-12, 2F1-13)

- 2F1-08[#]** Synthesis of Oxindoles Using Umpolung Amination/Cyclization Reactions of 1*H*-Indazole-3-carboxylates (Grad. Sch. Eng., Mie Univ.) ○MORI, Mayuko; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao

- 2F1-09** Synthesis of Tetramic Acid Derivatives via Umpolung Reaction of γ -Hydrazono β -Keto Ester (Grad. Sch. Eng., Mie Univ.) ○MAEDA, Miki; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao

- 2F1-10** A Novel Synthesis of 3-Aminofurans from α -Amino Dienyl Ester Derivatives (Grad. Sch. Eng., Mie Univ.) ○YAMASAKI, Shobu; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao

- 2F1-11** Synthesis of β -Lactams Having Multi-Functional Groups through 1,4- 1,6- Double Nucleophilic Addition Reactions of Dialkynyl Imines (Fac. Eng., Mie Univ.) ○SATO, Koki; HARA, Masaya; SHIMIZU, Makoto; HACHIYA, Iwao

- 2F1-12** Synthesis of macrocyclic 2,3-dibromocycloalkane and its reaction study directed to development of useful synthetic intermediates (Fac. Agr., Kindai Univ.) ○YOSHIKAWA, Tomomi; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; KITAYAMA, Takashi

- 2F1-13** Synthesis of medium-ring 2,3-dibromocycloalkane and its reactivity study directed to development of useful synthetic intermediates (Fac. Agr., Kindai Univ.) ○ISAKA, Kurumi; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; KITAYAMA, Takashi

Chair: OHMORI, Ken (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2F1-15, 2F1-17, 2F1-18, 2F1-19, 2F1-20)

- 2F1-15[#]** *N*-5-Unmodified flavins that catalyze enzyme-like oxidations (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○YAMANOMOTO, Ken; KITA, Hazuki; ARAKAWA, Yukihiko; MINAGAWA, Keiji; IMADA, Yasushi

- 2F1-17** Synthesis of novel polyenes bearing cross-conjugated carbonyl groups (Sch. Eng., Hokkaido Univ.) ○INABA, Yuya; YONEDA, Tomoki; INOKUMA, Yasuhide

- 2F1-18** Macrocyclization of bis(hydrazide) using oxidative coupling reaction (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KAJITANI, Yuichi; KIHARA, Nobuhiro

- 2F1-19** Synthesis of Cyclic Sulfoximine via Sulfur-Carbon Bond Formation (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MAEDA, Yoshiaki; AOTA, Yusuke; KANO, Taichi; MARUOKA, Keiji

- 2F1-20** Asymmetric synthesis of sulfoximines by stereospecific and sulfur atom selective alkylation of sulfenamides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○AOTA, Yusuke; KANO, Taichi; MARUOKA, Keiji

Sunday, March 17, PM

Chair: YOSHINO, Tatsuhiko (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F1-28, 2F1-30, 2F1-31, 2F1-32, 2F1-33)

- 2F1-28[#]** Metallacycle Mediated Annulative Cross-Coupling for the Synthesis of Angularly Substituted Stereodefined Decalins (Dept. Chem., Dartmouth College) ○MIZOGUCHI, Haruki; MICALIZIO, Glenn C.

- 2F1-30** Stereoselective methods for the preparation of multi-substituted (*Z*)- α, β -unsaturated esters utilizing a couple of stereoretentive reductions of (*E*)-enol tosylates (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YOSHITAKE, Daisuke; TAKEMOTO, Taichi; TANABE, Yoo

- 2F1-31** Stereoselective synthesis of γ -alkylidene-2(5*H*)-furanones with two and three substituents utilizing direct Ti-aldol reaction (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TAMURA, Nao; MITARAI, Kumi; TANEBE, Yoo

- 2F1-32** Practical method for the catalytic asymmetric Mukaiyama aldol addition using 1,3-bis(siloxy)diene and its application to asymmetric total syntheses of pyrone natural products (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TSUTSUMI, Takeshi; FUJIWARA, Tetsuya; NAKATA, Kohei; TANABE, Yoo

- 2F1-33** Development of Suzuki-Miyaura Coupling using cyclic borates (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Ko; TANAKA, Hiroshi

Chair: YAMAGUCHI, Junichiro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2F1-35, 2F1-37, 2F1-38,

2F1-39, 2F1-40)

- 2F1-35**** Cyclopropanation of aliphatic esters and alcohols extended to one-step catalytic linear sulfone synthesis (OIST) ○KHASHI, Eugene; DEOLKA, Shubham; STEPANOVA, Saiyuna; VOJKOVSKY, Tomas
- 2F1-37** Design of Optically Active trans-Cyclooctene Ligands for Rhodium-catalyzed Asymmetric 1,4-Addition (Grad. Sch. Eng., Kyoto Univ.) ○NAGANO, Tagui; ASANO, Keisuke; MATSUBARA, Seiji
- 2F1-38** Asymmetric Cyanation of Acylsilanes Using Chiral Lewis Base Catalysts (Grad. Sch. Eng., Kyoto Univ.) ○YOSHIZAKI, Ryotaro; MATSUMOTO, Akira; NAGANO, Tagui; ASANO, Keisuke; MATSUBARA, Seiji
- 2F1-39** Cross-coupling reaction at secondary carbon center in use of heteroaryl group (Sch. Life Sci. Tech., Tokyo Tech.) ○MORITA, Masao; KOBAYASHI, Yuichi; SHINOHARA, Riku
- 2F1-40** Ruthenium-catalyzed Site-selective C-H Hydroxylation (Grad. Sch. Sci., Kyushu Univ.; Fac. Arts and Sci., Kyushu Univ.; I₂CNER, Kyushu Univ.) ○DOUICHI, Daiki; HAYASHI, Hiroki; UCHIDA, Tatsuya

Chair: MIZOGUCHI, Haruki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2F1-42, 2F1-43, 2F1-44, 2F1-45, 2F1-46, 2F1-47)

- 2F1-42** Silver-Catalyzed Carbon Dioxide Incorporation on Alkynylindene Derivatives (Grad. Sch. Sci. Tech., Keio Univ.) ○OKUMURA, Akira; CHUANG, Poyao; SAITO, Kodai; YAMADA, Tohru
- 2F1-43** Decarboxylative Nazarov Cyclization for Synthesis of 2-Cyclopentenones (Grad. Sch. Sci. Tech., Keio Univ.) ○KOZUMA, Akane; KOMATSUKI, Keiichi; SAITO, Kodai; YAMADA, Tohru
- 2F1-44** Highly regioselective synthesis of fluorine-containing indenol derivatives based on cobalt-catalyzed [2+3] cycloaddition reaction (KIT) ○SHIMADA, Miroku; KUMON, Tatsuya; YAMADA, Shigeyuki; KONNO, Tsutomu
- 2F1-45** Synthesis of fluorine-containing isoquinolinone derivatives with cobalt-catalyzed C(sp³)-H bond activation reaction as a key reaction (KIT) ○WU, Jianyan; KUMON, Tatsuya; YAMADA, Shigeyuki; KONNO, Tsutomu
- 2F1-46** Synthesis of Planar-Chiral Ferrocene Carboxylic Acids and Application to Asymmetric C-H Activation Reactions (Fac. Pharm., Hokkaido Univ.) ○SEKINE, Daichi; KOJIMA, Masahiro; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeki
- 2F1-47** Synthesis of 5,7-membered bicyclic ring system by intramolecular Buchner reaction of α -diazoester (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HOSHI, Takayuki; OTA, Eisuke; YAMAGUCHI, Junichiro

Monday, March 18, PM

Chair: KAWASAKI, Tsuneomi (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3F1-25, 3F1-27, 3F1-28, 3F1-29, 3F1-30)

- 3F1-25*** Synthesis of Novel Hypervalent Iodine Reagents Containing a Transferable Iminyl Group and Their Application to Amination Reaction (Grad. Sch. Eng., Osaka Univ.) ○KIYOKAWA, Kensuke; OKUMATSU, Daichi; MINAKATA, Satoshi
- 3F1-27** Chiral Hypoiodite-catalyzed Enantioselective Oxidative Dearomatization of Indoles (Grad. Sch. Eng., Nagoya Univ.) ○TANAKA, Hiroki; UKEGAWA, Naoya; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-28** Ring expansion reaction of 2-alkylspiroindolenines via 1,3-rearrangement to azeplindoles (Sch. Eng., Nagoya Univ.) ○YASUI, Toshihiro; TANAKA, Hiroki; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-29** Scalability of Chiral Organiodine(III)-catalyzed Enantioselective Oxidation Reactions (Sch. Eng., Nagoya Univ.) ○ISHIZAKI, Shinichi; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-30** Novel Preparation of Nitrones Using Benzylic Bromides (Fac. Sci., Chiba Univ.) ○YANAI, Kei; TOGO, Hideo

Chair: IGAWA, Kazunobu (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3F1-32, 3F1-34, 3F1-36, 3F1-37)

- 3F1-32**** Development of tetrahydrocarbazole-forming trifluoromethylation of alkenes bearing an indolyl group and investigation of solvent effects on the site-selectivity (RIKEN CSRS; RIKEN CPR) ○MURAKAMI, Ryo; SEKINE, Daisuke; AOKI, Yuma; KAWAMURA, Shintaro; SODEOKA, Mikiko
- 3F1-34**** Development of difunctionalization-type perfluoroalkylations of styrenes by using diacyl peroxides (RIKEN CPR; RIKEN CSRS) ○SEKINE, Daisuke; VALVERDE, Elena; KAWAMURA, Shintaro; SODEOKA, Mikiko
- 3F1-36** Preparation of a novel Br₂ alternative, DITB (Grad. Sch. Sci., Osaka Pref. Univ.; Manac Inc.) NISHIO, Yuya; YUBATA, Kotaro; WAKAI, Yutaro; NOTSU, Kotaro; YAMAMOTO, Katsumi; FUJIWARA, Hideki; ○MATSUBARA, Hiroshi
- 3F1-37** Atom economical bromination using a novel bromine complex in the presence of oxidants (Grad. Sch. Sci., Osaka Pref. Univ.) ○YUBATA, Kotaro; MATSUBARA, Hiroshi

Chair: KAWAMURA, Shintaro (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(3F1-39, 3F1-41, 3F1-42,

3F1-43, 3F1-44)

- 3F1-39**** Chiral Hypoiodite-catalyzed Enantioselective Oxidative α -Azidation of Carbonyl Compounds (Nagoya Univ.) ○SAHARA, Naoto; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-41** Chiral Quaternary Ammonium Salt-catalyzed Enantioselective Oxidative Dearomatization Chlorination of Naphthols (Grad. Sch. Eng., Nagoya Univ.) ○KATADE, Outa; SAHARA, Naoto; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-42** High-Performance Hypohalite Catalysis for Enantioselective Oxidative Dearomatization of Phenols (Grad. Sch. Eng., Nagoya Univ.) ○KATO, Takehiro; SAHARA, Naoto; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-43** Investigation of the Formation of Trimer with α -Methylstyrene and HI Gas in the Presence of Ketones by DFT Calculation (Grad. Sch. Eng., Chiba Univ.; Godo Shigen Co., Ltd.) ○OSEKI, Takehisa; AKAZOME, Motohiro; OTANI, Yasuhiko; MATSUMOTO, Shoji
- 3F1-44** 3-Selective Amination of Indole Derivatives Using (Diacetoxyiodo)-2-substituted benzenes (Grad. Sch. Sci., Chiba Univ.) ○WATANABE, Kazuhiro; MORIYAMA, Katsuhiko

Chair: UYANIK, Muhammet (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(3F1-46, 3F1-48, 3F1-49, 3F1-51)

- 3F1-46**** Spontaneous absolute asymmetric synthesis and self-replication in the Strecker-cyanohydrin synthesis in combination with conglomerate formation and asymmetric amplification (Grad. Sch. Eng., Univ. of Fukui) ○AIBA, Shohei; TANAKA, Yuda; TAKAMATSU, Naoya; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi
- 3F1-48** Highly Enantioselective Strecker Amino Acid Synthesis by Using Chiral Crystal of Racemic Cyanohydrin as Substrate and Chiral Source (Fac. Sci., TUS) ○YOSHIMURA, Yuki; KOBAYASHI, Ryota; TAKAMATSU, Naoya; TOKUNAGA, Yuji; KAWASAKI, Tsuneomi
- 3F1-49*** Design and Synthesis of Dynamic Chiral Ten-membered Diallylic Amides (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○HAYASHI, Jun-ichi; KAWASAKI, Yuuya; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3F1-51** Design and Synthesis of Planar Chiral 9-Membered 4-Aza-Lactam (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○YOSHIDA, Yuki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Chair: KIYOKAWA, Kensuke (17 : 40~18 : 40)

* 17:30-17:40: interval for laptop PC connection.(3F1-53, 3F1-54, 3F1-56, 3F1-58)

- 3F1-53** Oxidative Ring-Contraction of Substituted Tetrahydropyrans by Nitrite-Catalyzed Double Activation of Bromine (Grad. Sch. Sci., Chiba Univ.) ○MORIYAMA, Katsuhiko; WATANABE, Kazuhiro; HAMADA, Tsukasa
- 3F1-54**** Uncatalyzed C-C Bond Cleavage of 2-Acylimidazoles (Grad. Sch. Pharm., Kyushu Univ.) ○XIN, Hailong; AKKAD, Walaa; MORIMOTO, Hiroyuki; OHSHIMA, Takashi
- 3F1-56**** Hypoiodite-catalyzed Chemoselective Generation of Quinone Methides and Application to Tandem Reactions (Grad. Sch. Eng., Nagoya Univ.) ○NISHIOKA, Kohei; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3F1-58** IBS-catalyzed Highly Efficient and Selective Oxidation and Oxidative Esterification of Alcohols with Oxone (Grad. Sch. Eng., Nagoya Univ.) ○KONDO, Ryutarō; UYANIK, Muhammet; ISHIHARA, Kazuaki

Room F2

Bldg. 3 352

Organic Chemistry -Reaction and Synthesis-
Aliphatic and Alicyclic Compounds

Saturday, March 16, AM

Chair: YAJIMA, Tomoko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1F2-01, 1F2-02, 1F2-03, 1F2-04, 1F2-05, 1F2-06)

- 1F2-01** Synthetic application of 1,3,3,3-tetrafluoropropene oxide (1) (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YAMAZAKI, Takashi; TAMURA, Yuji; KAWASAKI-TAKASUKA, Tomoko
- 1F2-02** Synthetic application of 1,3,3,3-tetrafluoropropene oxide (2) (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TAMURA, Yuji; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 1F2-03** Iterative synthesis of fluorinated polyketides using a fluoromalonic acid unit (IIS, The Univ. of Tokyo) ○YORICHIKA, Mitsuaki; AKAGAWA, Kengo; KUDO, Kazuaki
- 1F2-04** Stereoselective aldol reactions of the pseudo C₂ symmetric CF₃-containing glutarimide (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○YADA, Rina; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 1F2-05** Convergent synthesis of monofluoroalkenes from boryl(fluoro)(tosy-

loxy)ethylene (Center for Biosystems Dynamics Research, RIKEN)
 ○ISODA, Motoyuki; UETAKE, Yuta; NIWA, Takashi; HOSOYA, Takamitsu

1F2-06 Synthetic Route to of 1,1-Difluoroalkenes via Selective Carbon-Fluorine Bond Activation of CF₃ Group (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○FUSHIHARA, Tatsuki; OHKI, Rie; FUCHIBE, Kohei; ICHIKAWA, Junji

Chair: SHIMOKAWA, Jun (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1F2-08, 1F2-10, 1F2-11, 1F2-12, 1F2-13)

1F2-08** Dianionic phase transfer catalyst for asymmetric fluorofunctionalizations (Sch. Pharm. Sci., Univ. Shizuoka) ○NIWA, Tomoki; SATO, Hitomi; HOTTA, Ryo; ROUNO, Taiki; UJIE, Kiyoshi; KAWATO, Yuji; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka

1F2-10 In Situ Generation of Aryl Trifluoromethyl Ketones from Iodoarenes and Successive Reduction by the Use of Turbo Grignard Reagent (Fac. Eng., Gifu Univ.) ○KANI, Ryunosuke; INUZUKA, Toshiyasu; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa

1F2-11 Copper-catalyzed trifluoromethylation of haloalkenes: The substrate scope (Grad. Sch. Sci. Tech., Gunma Univ.) ○YUE, Sichen; KOMODA, Kazuki; SUGIISHI, Tsuyuka; AMII, Hideki

1F2-12 Synthesis of Fluorinated Dialkyl Carbonates from Carbon Dioxide as Carbon Source (Fac. Eng., The Univ. of Tokyo) ○SUGIYAMA, Masafumi; AKIYAMA, Midori; NISHIYAMA, Kohei; NOZAKI, Kyoko; OKAZOE, Takashi

1F2-13[#] Highly enantioselective fluorination of α -substituted β -diketones (Fac. Sci., Univ. of Ryukyus) ○POORSADEGHI, Samira; ENDO, Katsuki; ARIMITSU, Satoru

Chair: FUCHIBE, Kohei (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1F2-15, 1F2-16, 1F2-17, 1F2-18, 1F2-19, 1F2-20)

1F2-15 Synthesis of Optically active Fluorinated Carbohydrates via Mukaiyama aldol reaction (Grad. Sch. Eng., Tottori Univ.) ○KURODA, Kana; HAYASHI, Shihō; NOKAMI, Toshiki; ITHO, Toshiyuki

1F2-16 Organocatalytic Asymmetric Synthesis of Tetraols Having Various Fluoroalkyl Groups (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○GOTOH, Toshiya; INUZUKA, Toshiyasu; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa

1F2-17 Visible-light Perfluoroalkylation to Electron Deficient Olefin using Perfluoroalkyl Bromides or Perfluoroalkyl Iodides (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○NAKAYAMA, Moeko; YAJIMA, Tomoko

1F2-18 Synthesis of Trifluoromethyl Carboxylic Acids and Esters via Fluorocarboxylation of gem-Difluoroalkenes (Grad. Sch. Sci., The Univ. of Tokyo) ○KONDO, Junpei; RODRIGUEZ-SANTAMARIA, Jose Alberto; YOO, Woo-jin; KOBAYASHI, Shu

1F2-19 Visible-light Perfluoroalkylation of Olefin using Simple Amine as an Organic Catalyst (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○TANAKA, Miyu; YAJIMA, Tomoko; KANBARA, Tadashi

1F2-20 Cobalt-Catalyzed Atom Transfer Radical Trifluoromethylation of Olefins (Grad. Sch. Eng., Kyoto Univ.) ○MAEDA, Kazuki; KURAHASHI, Takuya; MATSUBARA, Seijiro

Saturday, March 16, PM

Chair: ISHIDA, Kento (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1F2-28, 1F2-29, 1F2-31, 1F2-32, 1F2-33)

1F2-28 Site-selective electrophilic reactions of linear diterpenoids via folding in a coordination cage (Grad. Sch. Eng., The Univ. of Tokyo) ○KANDA, Tomoya; NANJO, Hikaru; TAKEZAWA, Hiroki; FUJITA, Makoto

1F2-29** Chiral Lewis Acids integrated with Single-Walled Carbon Nanotubes in Water (Grad. Sch. Sci., The Univ. of Tokyo) ○KITANOSONO, Taku; XU, Pengyu; KOBAYASHI, Shu

1F2-31[#] Evaluation of Single-Walled Carbon Nanotubes for Integration with Chiral Lewis acid-surfactant-combined Catalysts (Sch. Sci., The Univ. of Tokyo) ○BAHRI, Janet; KITANOSONO, Taku; KOBAYASHI, Shu

1F2-32 Enantioselective Protonation Reactions in Water toward Synthesis of Tryptophan Derivatives (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIMURA, Yuma; KITANOSONO, Taku; KOBAYASHI, Shu

1F2-33 CD spectrum analysis for mechanistic study of asymmetric autocatalysis (Grad. Sch. Human. Sci., Nara Women's Univ.) ○TANAKA, Ayame; MATSUMOTO, Arimasa; MIKATA, Yuji; SOAI, Kenso

Chair: OHMATSU, Kohsuke (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1F2-35, 1F2-36, 1F2-37, 1F2-38, 1F2-40)

1F2-35 Photocatalytic Synthesis of α -CF₂H Ketones in Flow and Their Reactivity (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAKAYAMA, Yoshiki; KOIKE, Takashi; AKITA, Munetaka

1F2-36 Sulfonyltrifluoromethylation of alkenes by photoredox catalysis (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Seiya; NAKAYAMA, Yoshiki; KONISHI, Yusuke;

KOIKE, Takashi; AKITA, Munetaka

1F2-37 α -C-H functionalization of alcohols catalyzed by boron-photoredox-HAT hybrid system (Grad. Sch. Pharm., The Univ. of Tokyo) ○SAKAI, Kentaro; OISAKI, Kounosuke; KANAI, Motomu

1F2-38** Visible light-triggered monofluoromethylation of alkenes by strongly reducing organic photoredox catalysis (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NOTO, Naoki; KOIKE, Takashi; AKITA, Munetaka

1F2-40 Synthesis of β -fluoroketones through radical monofluoroalkylation by strongly reducing organic photoredox catalyst (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANIGUCHI, Ryo; NOTO, Naoki; KOIKE, Takashi; AKITA, Munetaka

Chair: HAMASHIMA, Yoshitaka (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1F2-42, 1F2-43, 1F2-45, 1F2-46, 1F2-47)

1F2-42 Visible-Light Photocatalytic Radical Addition-Cyclization Reaction for Synthesis of Isoxazoline-N-oxides (Grad. Sch. Eng., Nagoya Univ.) ○TSUCHIYA, Yuto; URAGUCHI, Daisuke; OOI, Takashi

1F2-43** Direct Allylic C-H Alkylation of Enol Silyl Ethers Enabled by Photoredox-Bronsted Base Hybrid Catalysis (WPI-ITbM, Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; CREST, JST) ○NAKASHIMA, Tsubasa; OHMATSU, Kohsuke; OOI, Takashi

1F2-45 Photoinduced allylic alkylation of ketene silyl acetals enabled by intermediary generated highly acidic radical cation (Grad. Sch. Eng., Nagoya Univ.; CREST, JST; WPI-ITbM, Nagoya Univ.) ○MAGOFUKU, Ryo; OHMATSU, Kohsuke; OOI, Takashi

1F2-46 Cyclopropanation of alkenes utilizing photo-induced coupling of acylsilanes with boranes. (Grad. Sch. Sci. and Technol., Gakushuin Univ.) ○MIURA, Arihito; ISHIDA, Kento; KUSAMA, Hiroyuki

1F2-47[#] Cooperative Catalysis between Metal Complexes and a Semiconductor Photocatalyst that Controls Formation and Reaction of Formamide Radicals (Grad. Sch. Sci., Nagoya Univ.) ○MORI, Shogo; AOKI, Takahiro; JUNG, Jieun; SAITO, Susumu

Chair: OISAKI, Kounosuke (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1F2-49, 1F2-51, 1F2-52, 1F2-53, 1F2-54)

1F2-49** Pd/TiO₂-Photocatalyzed Self-Condensation of Primary Amines To Afford Secondary Amines at Ambient Temperature (RCMS, Nagoya Univ.) WANG, Lyu-ming; KOBAYASHI, Kensuke; ARISAWA, Mitsuhiro; SAITO, Susumu; ○NAKA, Hiroshi

1F2-51 C-C Bond Formation by Use of Benzothiazoline as an Efficient Alkylating Reagent under Thermal/Photoredox Conditions (Fac. Sci., Gakushuin Univ.) ○MORIYAMA, Kaworuko; UCHIKURA, Tatsuhiko; IBÁÑEZ SÁNCHEZ, Ignacio; AKIYAMA, Takahiko

1F2-52 A Novel Acylation Reaction to Electron Deficient Alkenes by Use of Benzothiazoline under Photoredox Conditions (Fac. Sci., Gakushuin Univ.) ○TODA, Mitsuhiro; MORIYAMA, Kaworuko; UCHIKURA, Tatsuhiko; IBÁÑEZ SÁNCHEZ, Ignacio; AKIYAMA, Takahiko

1F2-53 Alkyl radical addition reactions of aldimines using 2-alkylbenzothiazolines under mild conditions (Fac. Sci., Gakushuin Univ.) ○TAKAHASHI, Ryoya; MOURI, Toshiki; UCHIKURA, Tatsuhiko; AKIYAMA, Takahiko

1F2-54 Radical C-C bond formation between cyclic ethers/acetals and olefins using sunlight (Coll. Sci. Tech., Nihon Univ.; Coll. Sci. Tech., Nihon Univ.) ○HAYAKAWA, Mamiko; SHIROTA, Hisashi; MASHIMO, Hiroshi; HIRAYAMA, Souta; UCHIDA, Kou; AOYAMA, Tadashi; OUCHI, Akihiko

Chair: KITANOSONO, Taku (18 : 10~18 : 50)

* 18:00-18:10: interval for laptop PC connection.(1F2-56, 1F2-57, 1F2-58)

1F2-56 Photo-Induced Intramolecular Coupling of Acylsilanes with Boronates for Construction of *trans*-Fused Bicyclic Skeletons (Fac. Sci., Gakushuin Univ.) ○YAMAGUCHI, Kohei; SHIMIZU, Tsukasa; MIURA, Arihito; ISHIDA, Kento; KUSAMA, Hiroyuki

1F2-57 Regio- and chemoselective Csp³-H transformation of benzylamines by single electron transfer/hydrogen atom transfer synergistic catalysis (Sch. Pharm. Sci., Univ. Shizuoka) ○FUJITA, Masashi; HAMASHIMA, Yoshitaka; EGAMI, Hiromichi; IDE, Takafumi; KOBAYASHI, Fumihisa; JOSHUA, Barham

1F2-58* An efficient way of producing hydrocarbon from CO₂ and activated water (Ritsumeikan Univ.) ○IMANAKA, Tadayuki; TAKEMOTO, Tadashi

Natural Products Chemistry

Sunday, March 17, AM

Alkaloid

Chair: KENTARO, Okano (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F2-01, 2F2-02, 2F2-03, 2F2-05)

2F2-01 Development of Amide-Selective Nucleophilic Addition for Modification of Peptides (Fac. Sci. Tech., Keio Univ.) ○TAKAHASHI, Yoshito;

- YOSHII, Risa; MORI, Tatsuya; SATO, Takaaki; CHIDA, Noritaka
2F2-02 Synthetic study of (+)-Saxitoxin (Fac. Sci. Tech., Keio Univ.)
 ○OKUYAMA, Yuya; OKAMOTO, Ryosuke; MUKAI, Shori; SATO, Takaaki; CHIDA, Noritaka
2F2-03[#] Asymmetric Total Synthesis, Stereochemical Stability and Cancer Cell Killing Effects of Stemonal Alkaloids (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.; Fac. Pharm. Sci., Hiroshima Int. Univ.) ○IWATA, Takayuki; FUJITA, Satoshi; TOMIYAMA, Taishi; MATSUMOTO, Kenji; HIRAO-SUZUKI, Masayo; TAKEDA, Shuzo; SHINDO, Mitsuru
2F2-05[#] Synthetic study of manzacidins A, B and C based on diastereoselective Henry reaction (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ARAKI, Yuya; MIYOSHI, Natsumi; MORIMOTO, Kazuki; KUDOH, Takayuki; MIZOGUCHI, Haruki; SAKAKURA, Akira

Chair: HAYAKAWA, Ichiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F2-08, 2F2-09, 2F2-10, 2F2-11, 2F2-12, 2F2-13)
2F2-08 Total Synthesis of protostemonamide by Assembly of three Five-Membered Building Blocks (Fac. Sci. Tech., Keio Univ.) ○SODA, Yasuki; OGIHARA, Chisato; YORITATE, Makoto; TAKAHASHI, Yoshito; TAJIMA, Hayato; SUGIYAMA, Yasukazu; SATO, Takaaki; CHIDA, Noritaka
2F2-09 Synthesis of Tetrodotoxin skeleton (Grad. Sch. Sci., Osaka City Univ.) ○NOGUCHI, Takayuki; TAKEDA, Rina; MARUYAMA, Takahiro; ARAKI, Yusuke; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
2F2-10 Total Synthesis of Ningalin B (Grad. Sch. Eng., Kobe Univ.) ○MORIKAWA, Daiki; MORII, Kazuki; OKANO, Kentaro; MORI, Atsunori
2F2-11 Construction of C11-15 moiety in zeteketoxin AB using 1,3-dipolar reaction (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○ADACHI, Kanna; ISHIZUKA, Hayate; HOSHI, Minami; YAMASHITA, Mari; NAGASAWA, Kazuo
2F2-12 Synthetic Study of Fungus-Derived Alkaloid Funiculosin (Grad. Sch. Sci. Tech., Keio Univ.) ○ZUI, Naoto; SATO, Keisuke; YAMAGUCHI, Ryosuke; SAITO, Yu; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
2F2-13 Synthetic study of Dragmacidins Using Photochemical Reaction (Grad. Sch. Sci. Tech., Keio Univ.) ○KAWAKAMI, Shota; ARAI, Yohei; SHIOKAWA, Zennyu; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari

Chair: SATO, Takaaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2F2-15, 2F2-16, 2F2-17, 2F2-18, 2F2-19, 2F2-20)
2F2-15[#] Concise and Systematic Synthesis of Skeletally Diverse Indole Alkaloidal Scaffolds Bearing a Michael Acceptor Moiety (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KUBOTA, Hiroki; MIZOGUCHI, Haruki; OGURI, Hiroki
2F2-16[#] Divergent Synthesis of Skeletally Distinct Alkaloidal Scaffolds via Zn (OTf)₂-mediated Alkyne Activation (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Fac. Sci., Hokkaido Univ.) ○YORIMOTO, Sada-iwa; TSUNEKAWA, Yoshiaki; ICHINO, Tomoya; Tsubouchi, Akira; MAEDA, Satoshi; OGURI, Hiroki
2F2-17[#] Stereo-controlled Synthesis of Alkaloidal Scaffolds through Assembly of Aromatic Amino Acid Components (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HONDA, Takamitsu; TANIFUJI, Ryo; KOMATSU, Ryoko; OGURI, Hiroki
2F2-18[#] Chemo-enzymatic Synthesis of Saframycins : Expansion of substrate tolerance (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KOMATSU, Ryoko; TANIFUJI, Ryo; HONDA, Takamitsu; ASANO, Ryutarō; OGURI, Hiroki
2F2-19[#] Synthesis of Alkaloidal Skeletons by Regioselective Dimerizations of Dihydropyridines (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ARAI, Yuta; WATANABE, Ryo; FUJIKAWA, Sōshi; HOSONO, Erina; OGURI, Hiroki
2F2-20 Synthetic Study of Aspidosperma Type Indole Alkaloids Based on an Oxidative Cyclization of Diarylaminines (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HOSOYA, Keisuke; ODAGI, Minami; NAGASAWA, Kazuo

Sunday, March 17, PM

Chair: OGURI, Hiroki (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(2F2-28, 2F2-29, 2F2-30, 2F2-31)
2F2-28 Synthetic Studies of Altemicidin-type Alkaloids: Stereoselective Construction of Cyclopentane Portion (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NAGAYASU, Anna; HAYAKAWA, Ichiro; SAKAKURA, Akira
2F2-29 Synthetic Study of Yuzurimine-Type Alkaloids: Stereoselective Construction of Heterocyclic Portion (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HAYAKAWA, Ichiro; NAGATANI, Ryosuke; IKEDA, Masaki; SAKAKURA, Akira
2F2-30 Synthetic Studies of Quinolizidine Alkaloid Lasbine Analogues (Grad. Sch. Eng., KAIT) ○OBATA, Haruki; SHIRAIISHI, Sota; NODA, Takeshi

- 2F2-31** Novel Unnatural Cyclic Amino Acid 9-Aminoquinolizidine-1-carboxylic acid derivatives (Fac. Bio., KAIT) OBATA, Haruki; HONMA, Hiroya; ONODA, Takeshi

Sugar

Chair: TANAKA, Hiroshi (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2F2-33, 2F2-35, 2F2-37, 2F2-38)
2F2-33[#] Boronic Acid Catalyzed Desymmetric 1,2-*cis*-Glycosylation of *meso*-Diols (Fac. Sci. Tech., Keio Univ.) ○TANAKA, Masamichi; SATO, Koji; YOSHIDA, Ryoki; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
2F2-35[#] Total Synthesis of Ellagitannins based on Sequential Site-Selective Functionalization of D-Glucose (ICR, Kyoto Univ.) ○UEDA, Yoshihiro; SHIBAYAMA, Hiromitsu; TAKEUCHI, Hironori; FUJIMORI, Yusuke; KAWABATA, Takeo
2F2-37 Synthesis of Deuterium-Labeled Ganglioside GM3 for Elucidating Glycan Conformation in Membrane (Grad. Sch. Sci., Osaka Univ.) ○SASAKI, Katsuaki; HNASHIMA, Sinya; MURATA, Michio
2F2-38 Synthetic study of disaccharide as heparan sulfate analogues (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ITO, Euki; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi

Chair: NOKAMI, Toshiaki (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2F2-40, 2F2-42, 2F2-43, 2F2-44, 2F2-45)
2F2-40[#] Systematic synthesis and function of *Campylobacter jejuni* lipid A (Grad. Sch. Sci., Osaka Univ.) ○NAKAGAWA, Sho; MATSURA, Yoshihumi; SHIMOYAMA, Atsushi; FUKASE, Koichi
2F2-42 Introduction of a bridge group into the 3- and 6-oxygens on a ⁴C₁-glucose derivative (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HAGIMORI, Takara; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi
2F2-43 Characterization of Lipooligosaccharide from Symbiotic Bacteria and Synthetic Study of Its Core Oligosaccharide (Grad. Sch. Sci., Osaka Univ.) ○UTO, Tomoya; MIZOTE, Keisuke; SHIMOYAMA, Atsushi; FUKASE, Koichi
2F2-44[#] Synthesis of arabinan fragments from mycobacterial cell wall component towards the functional analysis of mycobacterial arabinan degrading enzymes (RIKEN) ○ISHIWATA, Akihiro; ITO, Yukishige
2F2-45 Synthetic Study on a Natural Glycolipid, Terpioside B (Fac. Sci. Tech., Keio Univ.) ○ENDO, Masato; INABA, Kazuki; IIBUCHI, Naoto; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: HANASHIMA, Shinya (16 : 40~17 : 20)

- * 16:30-16:40: interval for laptop PC connection.(2F2-47, 2F2-48, 2F2-49, 2F2-50)
2F2-47 In vivo imaging utilizing weak interaction of oligosaccharide (Biofunc. Syn. Chem. Lab., CPR, RIKEN; GlycoTargeting Research Lab., BZP, RIKEN) ○NOMURA, Shogo; EGAWA, Yasuko; URANO, Sayaka; TANAKA, Katsunori
2F2-48 Improved synthesis of Riken click probe for glycoconjugation (RIKEN, BZP, GlycoTargeting Res. Lab.; RIKEN, CPR, Biofunc. Synth. Chem. Lab.; GlyTech, Inc.) ○NAKAMURA, Kayo; MURASE, Takefumi; SHIMODA, Taiji; TANAKA, Katsunori
2F2-49 Total synthesis of TMG-chitotriomycin analogues (Dept. Sustainable Science, Tottori Univ.) ○FUJIKI, Tatsuya; TAKAHASHI, Shuji; KITAMURA, Kei; ISODA, Yuta; NOKAMI, Toshiaki; ITO, Toshiyuki
2F2-50 Synthesis of Cyclic β-Glucan Precursor Using Automated Electrochemical Assembly (Grad. Sch. Eng., Tottori Univ.) ○KATO, Moeko; MANMODE, Sujit; NISHIKOORI, Naoto; NOKAMI, Toshiaki; ITOH, Toshiyuki

Monday, March 18, PM

Carbohydrates

Chair: SHIMOYAMA, Atsushi (12 : 40~13 : 30)

- * 12:30-12:40: interval for laptop PC connection.(3F2-23, 3F2-24, 3F2-26, 3F2-27)
3F2-23 Photo-Induced Isomerization of D-Glucose to 2-Deoxy-D-gluconic acid (Sch. Eng., Kyoto Univ.) ○TSUDA, Hiromu; MASUDA, Yusuke; MURAKAMI, Masahiro
3F2-24[#] Convergent synthesis of linear and multiple-branched β(1,3)-glucans and an evaluation of their binding affinities to dectin-1 (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HAMAGAMI, Hiroki; ADACHI, Yoshiyuki; OHNO, Naohito; TANAKA, Hiroshi
3F2-26 Development and Mechanistic Study of Stereospecific β-Rhamnosylation Using Organoboron Reagents (Fac. Sci. Tech., Keio Univ.) ○NISHI, Nobuya; SUEOKA, Kazuhiro; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
3F2-27 Silyl assisted 1,2-*cis*-α-glucosylation reaction (Fac. Sci. and Technol., Seikei Univ.) ○KAWANOBE, Yuichi; KURAGAKI, Naoya; KURIBARA, Taiki; TOTANI, Kiichiro

Chair: TAKAHASHI, Daisuke (13 : 40~14 : 20)

- * 13:30-14:00: interval for laptop PC connection.(3F2-29, 3F2-30, 3F2-31, 3F2-32)
- 3F2-29** Development of novel synthesis method of α (2,8) di,oligo,poly sialic acid containing *N*-glycolyltype sialic acid (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TOHDA, Kazuki; TANAKA, Hiroshi; KOINUMA, Ryosuke
- 3F2-30** Convergent synthesis of α (1,2)branching mannosides promoting phagocytosis of neutrophils. (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMADA, Haruka; SUGIYAMA, Hirotaka; KOINUMA, Ryosuke; TANAKA, Hiroshi
- 3F2-31** Synthetic study of the fluorescent labeling compound for cell surface calreticulin. (Fac. Sci. and Technol., Seikei Univ.) ○HOJO, Makoto; SHIBAYAMA, Keita; KURIBARA, Taiki; TOTANI, Kiichiro
- 3F2-32** Development of Dendritic Glycosylation Methodology towards One Pot Synthesis of High-mannose Glycans (Seikei Univ.) ○USUI, Lucio; NITTA, Kyohei; KOIZUMI, Ryo; KURIBARA, Taiki; TOTANI, Kiichiro

Terpenes, Steroids

Chair: KATO, Nobuki (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(3F2-34, 3F2-35, 3F2-36, 3F2-38)
- 3F2-34** Highly Stereoselective Construction of the Atisane-Type Diterpene Scaffold via Enantioselective Organocatalysis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○SATO, Yusuke; HOSOYA, Yusuke; SEKITA, Noriko; ADACHI, Kyohei; KOBAYASHI, Ippei; NAKADA, Masahisa
- 3F2-35** Asymmetric Synthesis of the Sugar Part of Cotylenin A (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○OSADA, Ryunosuke; UWAMORI, Masahiro; NAKADA, Masahisa
- 3F2-36[#]** First Enantioselective Total Synthesis of Cotylenin A (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○UWAMORI, Masahiro; OSADA, Ryunosuke; SUGIYAMA, Ryoji; NAKADA, Masahisa
- 3F2-38[#]** Efficient Total Synthesis of Jungermannobrunin A and Diacetyloxy Jungermannone C (Peking Univ.) ○KADONAGA, Yuichiro; WU, Jinbao; LEI, Xiaoguang

Chair: TSUCHIKAWA, Hiroshi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(3F2-41, 3F2-42, 3F2-43, 3F2-44, 3F2-45, 3F2-46)
- 3F2-41[#]** Development of the Second Generation Synthetic Process of Azartermisinins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MATSUOKA, Naoya; KOI, Hikari; TAKAHASHI, Norihito; BONEPALLY, Karunakar, Reddy; OGURI, Hiroki
- 3F2-42** Synthetic Study of Helminthosporic Acid (Grad. Sch. Sci., Tohoku Univ.) ○KATO, Nobuki; UEDA, Minoru
- 3F2-43** Practical synthesis of a coronatine stereochemical library (Grad. Sch. Sci., Tohoku Univ.) ○WATANABE, Raku; HAYASHI, Kengo; KATO, Nobuki; UEDA, Minoru
- 3F2-44[#]** Studies toward total synthesis of cynaropicrin (Sci. Tec., Sophia Univ.) ○PITNA, Dinda; NAKAMURA, Temma; KIMURA, Kouga; USUKI, Toyonobu
- 3F2-45** Synthetic study on swinhoesterol A, a marine cytotoxic sterol (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ZHAO, Yiwen; TAKANO, Atsuhiko; OHYOSHI, Takayuki; KIGOSHI, Hideo
- 3F2-46** Synthetic studies of aplysiaseosterol A, a marine 9,11-secosteroid (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TANO, Hikaru; TOJO, Shoma; OHYOSHI, Takayuki; KIGOSHI, Hideo

Others

Chair: MINAMI, Atsushi (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(3F2-48, 3F2-49, 3F2-50, 3F2-52)
- 3F2-48** Substrate recognition mechanism of dehydrogenase KanD2 in kanamycin biosynthesis (Sch. Sci., Tokyo Tech.) ○KITAYAMA, Yukinobu; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 3F2-49** Functional analysis of adenylating enzyme and glycosyltransferase in the biosynthesis of antitumor antibiotic pactamycin (Sch. Sci., Tokyo Tech.) ○ZHANG, Jiahao; HIRAYAMA, Akane; KUDO, Fumitaka; EGUCHI, Tadashi
- 3F2-50[#]** Radical SAM C-Methylation in Fosfomycin Biosynthesis (Sch. Sci., Tokyo Tech.) ○SATO, Shusuke; KUDO, Fumitaka; KUZUYAMA, Tomohisa; EGUCHI, Tadashi
- 3F2-52[#]** Comprehensive Determination of the Absolute Configurations of a Series of Novel Bitter Compounds Derived from Hop (*Humulus lupulus* L.) by the Crystalline Sponge Method (Cent. Lab. for Key Tech., Kirin Co. Ltd.; App. Lab., Rigaku Corp.; Grad. Sch. Eng., The Univ. of Tokyo; IMS) ○TANIGUCHI, Yoshimasa; KIKUCHI, Takashi; FUJITA, Makoto

Chair: USUKI, Toyonobu (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(3F2-55, 3F2-56, 3F2-57, 3F2-58, 3F2-59)
- 3F2-55** Search for the physiologically active substances from Shiitake mushrooms (Sch. Advanced Sci. Eng., Waseda Univ.) ○KARINO, Yuka; NAKAO, Yoichi

- 3F2-56** Screening of the origin of okadaic acid (Kanagawa Univ.) ○ABE, Takahiro; NAITO, Takayuki; UEMURA, Daisuke
- 3F2-57** Interaction analysis between acyl transferase and acyl carrier protein in disorazole biosynthesis (Sch. Sci., Tokyo Tech.) ○GOTO, Ema; OUCHI, Risako; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 3F2-58** Biosynthetic gene cluster of 18-membered ring macrolide antibiotic Virustomycin A (Sch. Sci., Tokyo Tech.) ○KISHIKAWA, Kohsuke; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 3F2-59** Functional analysis of split DH domain in biosynthesis of macro-lactam antibiotic cremimycin (Sch. Sci., Tokyo Tech.) ○KAWASAKI, Daisuke; CHISUGA, Taichi; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi

Tuesday, March 19, AM

Terpenes, Steroids

Chair: MINAMI, Atsushi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F2-01, 4F2-02, 4F2-03, 4F2-04, 4F2-05, 4F2-06)
- 4F2-01** Synthesis of Lactucopicrin (Kindai Univ.) ○WATANABE, Sayo; OKADA, Yosiharu
- 4F2-02** Synthetic study on Cyclocitronin (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SATO, Kazuto; TANINO, Keiji
- 4F2-03** Epoxidation of an Algal Biomass Oil/Botryococcene and Synthesis of the Pentaepoxide (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; ABES; IRC3, AIST) ○KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 4F2-04** Synthetic studies on exigurin (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKANISHI, Keisuke; MAEDA, Mitsutoshi; SATOU, Seiya; UDAGAWA, Yutarou; HOSOKAWA, Seijiro; ICHIKAWA, Yoshiyashu
- 4F2-05** Cascade cyclization of 2,3-oxidosqualene derivatives by some acidic catalysts (IRC3, AIST; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ARIMURA, Takashi; OKAMURA, Masami; INAMI, Yuri; TOMINAGA, Kennichi; KIGOSHI, Hideo
- 4F2-06** Reaction of 2,3-oxidosqualene derivatives and some nucleophilic agents (IRC3, AIST; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○INAMI, Yuri; OKAMURA, Masami; TOMINAGA, Kennichi; ARIMURA, Takashi; KIGOSHI, Hideo

Others

Chair: INUZUKA, Toshiyasu (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4F2-08, 4F2-09, 4F2-10, 4F2-11, 4F2-12)
- 4F2-08** Isolation and Structural Analysis of the Blue Pigment from Green Mussel, *Perna viridis* (Fac. Sci. Tech., Keio Univ.) ○KAWAMOTO, Aki; MIYAZAWA, Fumiaki; KATO, Kumiko; TAKASHIMA, Yoshie; MIYAZAKI, Sho; NAKATA, Masaya; SAIKAWA, Yoko
- 4F2-09** Searching for Natural Organic Compounds from Marine Sponge (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) ○DAIDO, Naoki; KURAMOTO, Makoto; MORI, Shigeki; UNO, Hidemitsu
- 4F2-10** Synthetic approach to adipogenic drug lead, Yoshinone A (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○ITAKURA, Yuki; WAKATSUKI, Yuto; UEMURA, Daisuke
- 4F2-11** Comprehensive analysis of sesquiterpene syntheses found in Basidiomycetes fungi -1- (Fac. Sci., Hokkaido Univ.; Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○NISHISHITA, Jumpei; NAGAMINE, Shota; KOZAKI, Takuto; LIU, Chengwei; OZAKI, Tarō; MARUYAMA, Jun-ichi; MINAMI, Atsushi; OIKAWA, Hideaki
- 4F2-12** Comprehensive analysis of sesquiterpene syntheses found in Basidiomycetes fungi -2- (Fac. Sci., Hokkaido Univ.; Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○NAGAMINE, Shota; NISHISHITA, Jumpei; LIU, Chengwei; OZAKI, Tarō; MARUYAMA, Jun-ichi; MINAMI, Atsushi; OIKAWA, Hideaki

Chair: OGURI, Hiroki (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(4F2-14, 4F2-15, 4F2-16, 4F2-17, 4F2-18)
- 4F2-14** Isolation and structure elucidation of novel cytotoxic from *Dinoflagellate Amphidinium carterae* Hurburt (NIES-331) (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○KATO, Taishi; ABRAI, Yuta; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; INUZUKA, Toshiyasu
- 4F2-15[#]** Functional and structural analysis of unique adenylation enzyme IdnL7 involved in biosynthesis of macrolactam antibiotic incednine (Sch. Sci., Tokyo Tech.) ○CIESLAK, Jolanta; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
- 4F2-16** Biosynthetic study of abscisic acid in fungi -1- (Fac. Sci., Hokkaido Univ.) ○TAKINO, Junya; KOZAKI, Takuto; SATO, Yoshiro; LIU, Chengwei; OZAKI, Tarō; MINAMI, Atsushi; OIKAWA, Hideaki
- 4F2-17** Biosynthetic study on antifungal agent zopfifelin (2) (Fac. Sci., Hokkaido Univ.) ○SHIINA, Tetsuya; NAGAMINE, Shota; MATSU, Yusuke; OZAKI, Tarō; LIU, Chengwei; MINAMI, Atsushi; OIKAWA, Hideaki
- 4F2-18** Biosynthetic study of anthraquinone dimer natural product isolated from filamentous fungi-2- (Fac. Sci., Hokkaido Univ.; Grad. Sch. Agricultural

and Life Sci., The Univ. of Tokyo) ○FUKAYA, Mitunori; MINAMI, Atsushi; OZAKI, Taro; LIU, Chengwei; MARUYAMA, Jun-ichi; OIKAWA, Hideaki

Room F3

Bldg. 3 353

Chemical Biology

Saturday, March 16, AM

Chair: HIRANO, Tomoya (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1F3-08, 1F3-10, 1F3-12, 1F3-13)
- 1F3-08[#]** A Turn-on Imaging Probe for GABA(A) Receptors Allows for Construction of Fluorescent Biosensor (Grad. Sch. Eng., Kyoto Univ.; Fac. Med., Fukuoka Univ.; ERATO, JST) ○SAKAMOTO, Seiji; HARADA, Fumio; YAMAURA, Kei; AMAIKE, Kazuma; NUMATA, Tomohiro; INOUE, Ryuji; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1F3-10[#]** Near-Infrared Luminescent Platinum Nanoclusters for in vivo Imaging and Biomedical Application (NIT, Kure College) ○TANAKA, Shin-ichi; NIIOKA, Hirohiko
- 1F3-12** Design and Synthesis of PSMA Ligands for Imaging Prostate Cancer (Hiroshima Univ.; Inst. of Biotech. of the CAS; StarWise Therapeutics LLC) ○YAMAKAWA, Kohei; NAKAJIMA, Ryo; NOVÁKOVÁ, Zora; MOTLOVÁ, Lucia; BARINKA, Cyril; KOZIKOWSKI, Alan
- 1F3-13** Lanthanide-Thiacalix[4]arene Complex-Loaded Silica Nanoparticles for Imaging and Cancer Therapy (Grad. Sch. Environmental Studies, Tohoku Univ.) ○YAMATOYA, Takumi; KARASHIMADA, Ryunosuke; INO, Kosuke; SHIKU, Hitoshi; IKI, Nobuhiko

Chair: KIYONAKA, Shigeki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1F3-15, 1F3-17, 1F3-19, 1F3-20)
- 1F3-15[#]** Development of spontaneously blinking fluorophores based on nucleophilic addition of intracellular glutathione for super-resolution imaging (Grad. Sch. Pharm., The Univ. of Tokyo) ○MOROZUMI, Akihiko; KAMIYA, Mako; UNO, Shin-nosuke; UMEZAWA, Keitaro; YOSHIHARA, Toshitada; TOBITA, Seiji; URANO, Yasuteru
- 1F3-17[#]** Development of novel polarity-sensitive fluorophore derived from fluorescent natural compounds for the study of biomolecular interactions (IBB, Tokyo Med. and Dental Univ.) ○YOKOO, Hidetomo; HIRANO, Tomoya; OHSAKI, Ayumi; KAGECHIKA, Hiroyuki
- 1F3-19** Optimization of a chemical tool for selective covalent labeling of a Hist-tag fused protein applicable to TEM imaging (Grad. Sch. Pharm., Kyushu Univ.) ○ZENMYO, Naoki; TOKUMARU, Hiroki; TABATA, Shigekazu; UCHINOMIYA, Shohei; OJIDA, Akio
- 1F3-20** Intravascular oxygen imaging of kidney by using hydrophilic iridium (III) complexes (Grad. Sch. Sci. Tech., Gunma Univ.) ○YOSHIHARA, Toshitada; MIZUKAMI, Kiichi; HIRAKAWA, Yosuke; NANGAKU, Masaomi; TOBITA, Seiji

Saturday, March 16, PM

Chair: MINOSHIMA, Masahumi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1F3-28, 1F3-30, 1F3-31, 1F3-33)
- 1F3-28[#]** Controlling molecules in cells by SLIPT (1): Optochemical, local signal activation at the single-cell level (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○OKI, Choji; NAKAMURA, Akinobu; YOSHII, Tatsuyuki; TSUKIJI, Shinya
- 1F3-30** Controlling molecules in cells by SLIPT (2): Development of a versatile loop-engineered protein tag (Fac. Eng. Nagoya Inst. of Tech.) ○HATANO, Yuka; YOSHII, Tatsuyuki; TSUKIJI, Shinya
- 1F3-31[#]** Covalent inhibition of protein-protein interaction (1): Development of covalent inhibitor based on *N*-acyl-*N*-alkyl sulfonamide (NASA) warhead (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○UEDA, Tsuyoshi; SHIONO, Keiya; TAMURA, Tomonori; HAMACHI, Itaru
- 1F3-33** Covalent inhibition of protein-protein interaction (2) : Structure-activity relationship study of covalent inhibitor based on *N*-acyl-*N*-alkyl sulfonamide (NASA) warhead (Sch. Eng., Kyoto Univ.; ERATO, JST) ○SHIONO, Keiya; UEDA, Tsuyoshi; TAMURA, Tomonori; HAMACHI, Itaru

Chair: HAMACHI, Itaru (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1F3-35, 1F3-38, 1F3-39, 1F3-40)
- 1F3-35[#]** Young Scholar Lectures of CSJ Molecular Glues for Control of Biomolecular Functions (Grad. Sch. Eng., The Univ. of Tokyo) ○OKURO, Kou
- 1F3-38** Optimization and application of PYP-tag labeling technique using

environment-sensitive probe with fluorescence switch (Grad. Sch. Eng., Osaka Univ.) ○GAO, Jingchi; HORI, Yuichiro; KIKUCHI, Kazuya

- 1F3-39** Quantitative analysis of CO localized in animals using a high affinity CO receptor (Grad. Sch. Eng., Doshisha Univ.) ○MAO, Qiyue; MIZOBATA, Shun; KITAGISHI, Hiroaki
- 1F3-40[#]** Development of ratiometric carbohydrate sensor based on BODIPY scaffold (Grad. Sch. Pharm., The Univ. of Tokyo) ○MADAPPURAM CHERUTHU, Nusaiba; KOMATSU, Toru; URANO, Yasuteru

Chair: TSUKIJI, Shinya (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1F3-42, 1F3-44, 1F3-45, 1F3-47)
- 1F3-42[#]** Two-step labeling allows analysis of AMPA-type glutamate receptor dynamics "beyond optical resolution limit" (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○OJIMA, Kento; TAKATO, Mikiko; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1F3-44** Chemical labeling of endogenous NMDA-type glutamate receptors for dynamics study (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○SHIRAIWA, Kazuki; KOMATSU, Kazuhiro; AMAIKE, Kazuma; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1F3-45[#]** Control of mitochondrial DNA by sequence-specific DNA-binding molecules (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HIDAKA, Takuya; NAMASIVAYAM, Ganesh Pandian; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 1F3-47** Telomere Imaging in Human Live Cells with Pyrrole-Imidazole Polyamide (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TSUBONO, Yutaro; HIDAKA, Takuya; KAWAMOTO, Yusuke; NAMASIVAYAM, Ganesh Pandian; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Chair: TAMURA, Tomonori (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1F3-49, 1F3-51, 1F3-53, 1F3-54)
- 1F3-49[#]** Catalytic human antibody light chains capable of cleaving Tau peptides (ISIT Nanotechnology Lab.) ○UDA, Taizo; TAGUCHI, Hiroaki; HIFUMI, Emi
- 1F3-51[#]** Phospho-xanthene pH-Probes Functionalized on a *p*-Phenyl Group (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OGASAWARA, Hiroaki; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 1F3-53** Development of inverse caged compound for control of CREB transcriptional activity (Grad. Sch. Eng., Osaka Univ.) ○IMOTO, Takuma; MINOSHIMA, Masafumi; KIKUCHI, Kazuya
- 1F3-54** Development of caged gene regulators for light control of genetic recombination in vivo (Grad. Sch. Eng., Osaka Univ.) ○YOSHIDA, Kurumi; MINOSHIMA, Masafumi; KIKUCHI, Kazuya

Sunday, March 17, AM

Chair: HIRAYAMA, Tasuku (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2F3-01, 2F3-03, 2F3-04, 2F3-05, 2F3-06)
- 2F3-01[#]** Development of fluorescent probes for metabolic pathways (1) Fluorescence imaging of fatty acid beta oxidation in live cells (Grad. Sch. Pharm., Kyushu Univ.) ○UCHINOMIYA, Shohei; MATSUNAGA, Naoya; SAKAMOTO, Mari; WEBER, Mark; KAMODA, Koichiro; OHDO, Shigehiro; OJIDA, Akio
- 2F3-03** Development of fluorescent probes for metabolic pathways (2) Fluorescence imaging of fatty acid beta oxidation by employing intramolecular cyclization of a metabolic intermediate (Grad. Sch. Pharm., Kyushu Univ.) ○SAKAMOTO, Mari; KAWAGOE, Ryosuke; WEBER, Mark; KAMODA, Koichiro; UCHINOMIYA, Shohei; OJIDA, Akio
- 2F3-04** Development of environment-responsive quinolyl-pyrroles for membrane potential measurement (Grad. Sch. Eng., Utsumomiya Univ.) ○OBA, Toru; ○SHINOTSUKA, Ryo; MITOME, Takahiro; MASUYA, Takuto; ITO, Satoshi; TAMESUE, Shingo
- 2F3-05** Development of Ratiometric Fluorescent Probes for Zinc Ions with Cell Membrane Permeability (Fac. Sci. Eng., Doshisha Univ.; Nano-bioscience Research Center, Doshisha Univ.; School of Chemistry and Biochemistry, Georgia Tech.) ○OKAMURA, Mami; ISHIZUKA, Keiko; NOMURA, Akiko; KODERA, Masahito; FAHRNI, Christoph; HITOMI, Yutaka
- 2F3-06** Visualization of zinc ion in intracellular organelles (Grad. Sch. Life Sci., Tohoku Univ.) ○WATANABE, Tomomi; KOWADA, Toshiyuki; MATSUI, Toshitaka; MIZUKAMI, Shin

Chair: HORI, Yuichiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2F3-08, 2F3-10, 2F3-11, 2F3-12, 2F3-13)
- 2F3-08[#]** Dynamic ligand-receptor-G protein interactions detected with single molecule fluorescence microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIGUCHI, Tomoki; YOSHIMURA, Hideaki; OZAWA, Takeaki
- 2F3-10[#]** High-Speed Fluorescence Imaging Flow Cytometry with Oblique Light-Sheet Excitation (Grad. Sch. Sci., The Univ. of Tokyo) ○HUANG, Kangrui; ZHANG, Ruyue; MIKAMI, Hideharu; OZEKI, Yasuyuki; GODA, Keisuke
- 2F3-11** Development of Fluorescent Hydrogen Peroxide Probes Based on an Iron Complex (Fac. Sci. Eng., Doshisha Univ.) ○SHIGEMATSU, Hajime;

MIYACHI, Ryosuke; KODERA, Masahito; HITOMI, Yutaka

- 2F3-12** A Negatively Solvatochromic Fluorescent Fatty Acid for the Visualization of Fatty Acid Metabolic Processes (Grad. Sch. Sci., Nagoya Univ.) ○KAJIWARA, Keiji; OSAKI, Hiroshi; KIM, Ju Hyun; GENSCHE, Tobias; GRESSIES, Steffen; SATO, Yoshikatsu; KUWATA, Keiko; GLORIUS, Frank; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 2F3-13[#]** A bioluminescence method for sensing GLUT4 on plasma membrane using spontaneous split luciferase complementation (Grad. Sch. Sci., The Univ. of Tokyo) ○MIYASAKI, Masashi; KAWAMURA, Genki; ENDO, Mizuki; OZAWA, Takeaki

Chair: TSUCHIKAWA, Hiroshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2F3-15, 2F3-17, 2F3-18, 2F3-19, 2F3-20)
- 2F3-15[#]** Organelle-selective lipid labeling and imaging (Grad. Sch. Eng., Kyoto Univ.) ○TAMURA, Tomonori; FUJISAWA, Alma; SHEN, Yuying; HAMACHI, Itaru
- 2F3-17** High-speed, high-sensitivity imaging flow cytometry with a scanned line-focus excitation beam (Grad. Sch. Sci., The Univ. of Tokyo) ○HASHIMOTO, Yuta; MIURA, Taichi; MIKAMI, Hideharu; OZEKI, Yasuyuki; GODA, Keisuke
- 2F3-18** Development of intracellular protein labeling probe through inhibition of β -lactamase (Grad. Sch. Eng., Osaka Univ.) ○UMENO, Taro; MINOSHIMA, Masafumi; KIKUCHI, Kazuya
- 2F3-19[#]** Development of PYP-tag far-red fluorogenic probe for intracellular protein labeling (Grad. Sch. Eng., Osaka Univ.) ○REJA, Shahi Imam; HORI, Yuichiro; KIKUCHI, Kazuya
- 2F3-20** Development of a chemical tag tool for near-infrared fluorescence *in vivo* imaging (Grad. Sch. Med., The Univ. of Tokyo) ○KOJIMA, Yusuke; ASANUMA, Daisuke; OKAMOTO, Hiroyuki; NAMIKI, Shigeyuki; HIROSE, Kenzo

Sunday, March 17, PM

Chair: IKEUCHI, Yoshiho (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F3-28, 2F3-30, 2F3-32, 2F3-33)
- 2F3-28[#]** Clinical synthetic chemistry: Rapid intraoperative diagnosis of breast cancer (Biofunc. Syn. Chem. Lab., RIKEN; Grad. Sch. Med., Osaka Univ.) ○PRADIPTA, Ambara Rachmat; TANEI, Tomonori; FUJII, Motoko; MORIMOTO, Koji; NOGUCHI, Shinzaburo; TANAKA, Katsunori
- 2F3-30^{*}** Fixation-driven Affinity Labeling of endogenous protein in cell and brain tissue (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST.) ○AMAIKE, Kazuma; YAMAGAMI, Sadatoshi; NISHIKAWA, Yuki; GOTO, Taiki; KIYONAKA, Shigeki; HAMACHI, Itaru
- 2F3-32** Controlling molecules in cells using synthetic organelles (1): Rapid signal inactivation by conditional protein trapping (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YOSHII, Tatsuyuki; YOSHIKAWA, Masaru; IKUTA, Masahiro; TSUKIJI, Shinya
- 2F3-33** Controlling molecules in cells using synthetic organelles (2): Rapid signal activation by conditional protein release (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YOSHIKAWA, Masaru; IKUTA, Masahiro; YOSHII, Tatsuyuki; TSUKIJI, Shinya
- Chair: MINOSHIMA, Masahumi (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(2F3-35, 2F3-37, 2F3-39, 2F3-40)
- 2F3-35[#]** Development of ROS conditional proteomics and its application to mouse brain tissues (Grad. Sch. Eng., Kyoto Univ.) ○ZHU, Hao; TAMURA, Tomonori; HAMACHI, Itaru
- 2F3-37[#]** Controlling molecules in cells by SLIPT (3): Chemical trapping of signaling molecules at endomembranes (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○NAKAMURA, Akinobu; KATAHIRA, Rika; YOSHII, Tatsuyuki; TSUKIJI, Shinya
- 2F3-39[#]** Control of the Tumorigenic Signaling Pathways via Assembly of Integrin-targeted Synthetic Peptides (OIST) ○ROY, Sona; ZHANG, Ye
- 2F3-40** Effect of Light Irradiation on the Growth of *Aspergillus oryzae* (Grad. Sch. Sci., Hiroshima Univ.) FUJIWARA, Yoshihisa; ○TAKASU, Kanta

Chair: TSUKIJI, Shinya (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2F3-42, 2F3-44, 2F3-46, 2F3-47)
- 2F3-42[#]** Caged hedgehog agonist for controlling neural differentiation of stem cell (IIS, The Univ. of Tokyo) ○MISAWA, Ryuji; IKEUCHI, Yoshiho
- 2F3-44^{*}** Cell Death Induction of Cancer Cells by Cyclometalated Iridium(III) Complex-Peptide Hybrids and Its Mechanism (Fac. Pharm. Sci., Tokyo Univ. Sci.) ○AOKI, Shin; YOKOI, Kenta; NAITO, Kana; BALACHANDRAN, Chandrasekar; KAZAMA, Ayami
- 2F3-46** Development of an *in vivo* multicolor ¹⁹F MR imaging technology using perfluorocarbon-encapsulated silica nanoparticles (Grad. Sch. Eng., Osaka Univ.) ○AKAZAWA, Kazuki; SUGIHARA, Fuminori; NAKAMURA, Tatsuya; MUKAI, Hiroaki; MINOSHIMA, Masafumi; MIZUKAMI, Shin; KIKUCHI, Kazuya
- 2F3-47** Development of perfluorocarbon-encapsulated silica nanoparticles to

control *in vivo* distribution (Grad. Sch. Eng., Osaka Univ.) ○OKUNISHI, Atsuya; AKAZAWA, Kazuki; AKIMOTO, Rena; SUGIHARA, Fuminori; MINOSHIMA, Masafumi; KIKUCHI, Kazuya

Natural Products Chemistry

Monday, March 18, PM

Amino Acid, Peptide

Chair: YASUNO, Yoko (12 : 40~13 : 20)

- * 12:30-12:40: interval for laptop PC connection.(3F3-23, 3F3-24, 3F3-25, 3F3-26)
- 3F3-23[#]** Synthesis and function of *Helicobacter pylori* peptidoglycan fragments (Grad. Sch. Sci., Osaka Univ.) ○HU, Ruofang; SHIMOYAMA, Atsushi; FUKASE, Koichi
- 3F3-24** New Approaches for Peptide Thioesterification (Sch. Sci., Osaka Univ.) ○AMAZAKI, Yoko; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro
- 3F3-25** Synthesis of δ -substituted D-lysine derivatives for solid phase peptide synthesis (Fac. Sci., Kochi Univ.) ○AKIYAMA, Tatsunari; TANAKA, Yusuke; OKAMOTO, Ryo; KAJIHARA, Yasuhiro; IZUMI, Masayuki
- 3F3-26** Isolation and structure determination of nobarestatins isolated from marine cyanobacteria (Fac. Sci. Tech., Keio Univ.) ○MAKI, Kumiko; SUENAGA, Kiyotake

Fatty Acid Related Compounds and Polyphenols

Chair: HANASHIMA, Shinya (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F3-28, 3F3-29, 3F3-30, 3F3-31, 3F3-32, 3F3-33)
- 3F3-28** Synthetic Studies on Illisimonin A Using Enantioselective Mukaiyama Aldol Reaction (Fac. Sci., TUS) MURATA, Takatsugu; ○TOYOYAMA, Kiyotaka; TATEYAMA, Satoru; MORI, Takahiro; TANAKA, Daiki; ITO, Keiichi; YONEKURA, Keita; SHIINA, Isamu
- 3F3-29** Search for marine natural compounds controlling the neural cell differentiation (Sch. Advanced Sci. Eng., Waseda Univ.) ○SAITO, Saki; NAKAO, Yoichi
- 3F3-30[#]** Structure analysis of danicalipin A diol and its analogs by the crystalline sponge method (Grad. Sch. Eng., The Univ. of Tokyo) ○DUBEY, Ritesh; YAN, Kaking; CARREIRA, Erick M.; FUJITA, Makoto
- 3F3-31** Structure Analysis of Collimonin A and B using by Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo) ○NASU, Norihiro; DUBEY, Ritesh; SOGAME, Mai; KAI, Kenji; FUJITA, Makoto
- 3F3-32** Synthetic study of the DE-ring of goniodomin A (Faculty of Life Science Tokyo University of Agriculture) ○SAITO, Tatsuo
- 3F3-33** Studies on *N*-acylaminoalcohol-selective derivatization directed toward structure analyses of natural products (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○IRIE, Raku; OIKAWA, Masato

Chair: OGURA, Akihiro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3F3-35, 3F3-36, 3F3-37, 3F3-38, 3F3-39, 3F3-40)
- 3F3-35** Synthetic Studies on Violaceoid A and Divergent Synthesis of (–) and (+)-Violaceoid B Using Kinetic Resolution (1) (Fac. Sci., TUS) MURATA, Takatsugu; ○TANAKA, Daiki; KUBOKI, Tepei; ISHIKAWA, Ryo; SAITOH, Takahiro; SHIINA, Isamu
- 3F3-36** Synthetic Studies on Violaceoid A and Divergent Synthesis of (–) and (+)-Violaceoid B Using Kinetic Resolution (2) (Fac. Sci., TUS) MURATA, Takatsugu; ○MORI, Takahiro; KUBOKI, Tepei; ISHIKAWA, Ryo; SAITOH, Takahiro; SHIINA, Isamu
- 3F3-37** Synthetic Studies on Violaceoid A and Divergent Synthesis of (–) and (+)-Violaceoid B Using Kinetic Resolution (3) (Fac. Sci., TUS) MURATA, Takatsugu; ○TAGUCHI, Shotaro; TAKEUCHI, Kazuma; KUBOKI, Tepei; ISHIKAWA, Ryo; SAITOH, Takahiro; SHIMONAKA, Motoyuki; SHIINA, Isamu
- 3F3-38** Screening for inhibitors of ER stress-mediated apoptosis from marine organisms. (Sch. Adv. Eng., Kogakuin Univ.) ○KEIGO, Sato; RYO, Honma; KENJI, Matsuno; OSAMU, Ohno
- 3F3-39** Synthesis and biological evaluation of enigmazole A analogues (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Life Sci., Tohoku Univ.) ○SAKAMOTO, Keita; FUWA, Haruhiko
- 3F3-40** Asymmetric Synthesis of JBIR-23,24 and Cuevaena A. (Grad. Sch. Sci. Eng., Univ. of Toyama; Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) MIYAZAWA, Masahiro; ○OKUNO, Masatake; KUNICHIKA, Ko-ki; YOKOYAMA, Hajime

Chair: FUWA, Haruhiko (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3F3-42, 3F3-43, 3F3-44, 3F3-45, 3F3-46, 3F3-47)
- 3F3-42** Synthetic studies of Teadenols (Grad. Sch. Eng., KIT) ○HOSHINO, Kosuke; SUETAKE, Hiroki; YAMAGUCHI, Yukihiro; SHIMOOKA, Hirokazu; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 3F3-43** Synthetic study on accumulated doubly-linked flavan oligomers (Sch. Sci., Tokyo Tech.) ○TAKEDA, Rikako; NOGUCHI, Yuka; SUZUKI,

Keisuke; OHMORI, Ken

- 3F3-44** Studies on stereoselective synthesis of lactonamycin (Sch. Sci., Tokyo Tech.) ○MURATA, Kazuki; SATO, Shogo; KAWADA, Takuma; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3F3-45** Synthetic study on acremoxanthone A: construction of xanthone moiety via isoxazole intermediate (Sch. Sci., Tokyo Tech.) ○NAKAKOHARA, Hiroshi; HIRANO, Yoichi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke
- 3F3-46** Stereodivergent Synthesis and Structural Determination of Symbiodinolate C61-C74 Fragment (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Fac. Sci., Kanagawa Univ.) ○OHASHI, Takumi; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 3F3-47** Synthetic study of simplified aplysiatoxin analogs using salicyl alcohol (Fac. Agr., Kagawa Univ.) SHIDA, Kouyou; KAJIHARA, Mizuki; OKADA, Misa; YANAGITA, Ryo; ○KAWANMI, Yasuhiro

Chair: SAITO, Tatsuo (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3F3-49, 3F3-51, 3F3-52, 3F3-53, 3F3-54)
- 3F3-49[#]** Total Synthesis and Structure-Activity Relationship Study of Amphidinol 3 (Grad. Sch. Sci., Kyushu Univ.) ○WAKAMIYA, Yuma; EBINE, Makoto; OISHI, Tohru
- 3F3-51** Synthetic Study of the C30-C63 Section of Karlotoxin 2 (Grad. Sch. Sci., Kyushu Univ.) ○UMENO, Keitaro; EBINE, Makoto; WAKAMIYA, Yuma; OISHI, Tohru
- 3F3-52** Synthetic Study of the AB-Ring of Maitotoxin (Grad. Sch. Sci., Kyushu Univ.) ○YOSHIMURA, Shotaro; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 3F3-53** Unified Synthesis of the DEF and GHI Rings of Maitotoxin (Grad. Sch. Sci., Kyushu Univ.) ○YASUDOMI, Takaya; YAKUSIJI, Hiroyuki; TORIKAI, Kohei; EBINE, Makoto; OISHI, Tohru
- 3F3-54** Synthetic Studies of Jeddahenyn B (Fac. Sci. Tech., Keio Univ.) OGURA, Akihiro; ○NAKAO, Sohta; MORIYA, Kojiro; TAKAO, Ken-ichi

Tuesday, March 19, AM

Chair: OHMORI, Ken (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F3-01, 4F3-02, 4F3-03, 4F3-04, 4F3-05, 4F3-06)
- 4F3-01** Investigation of chirality control of phenol-containing cyclic acetal via ring opening-closing equilibrium (Fac. Sci. Tech., Keio Univ.) ○TORIUMI, Chiharu; TOMITA, Kazutaka; KOJIMA, Yuta; ITO, Naoto; NAKATA, Masaya; SAIKAWA, Yoko
- 4F3-02** Modification study of constituent groups in ellagitannin using cross coupling reaction (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KAKIUCHI, Takuya; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi
- 4F3-03** The short-step synthesis of karrikinolide (Sch. Advanced Sci. Eng., Waseda Univ.) ○KIRITA, Kanade; HOSOKAWA, Seijirou
- 4F3-04** Stereoselective Synthesis of 1,3-Diol Derivatives using Tandem Catalysis (Fac. Sci. Eng., Chuo Univ.) ○MURATA, Keisuke; SAKAMOTO, Keita; FUWA, Haruhiko
- 4F3-05** Total syntheses of hericenones bearing fatty acid moieties isolated from the fruiting bodies of *Hericium erinaceum* (Fac. Eng., OIT) ○TAMURA, Tomoki; HAMADA, Yoshiki; MASUYAMA, Araki; KOBAYASHI, Shoji
- 4F3-06** Investigation on chiral total syntheses of all 6 natural insecticidal pyrethrin components: Toward the determination of accurate physical properties (Grad. Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KAWAMOTO, Momoyo; ASHIDA, Yuichiro; MATSUO, Noritada; TANABE, Yoo

Terpenes, Steroids

Chair: WAKAMORI, Shinnosuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4F3-08, 4F3-09, 4F3-10, 4F3-12, 4F3-13)
- 4F3-08** Synthetic Studies of Gutierrezone A (Fac. Sci. Tech., Keio Univ.) ○OKUMURA, Kaori; KOIZUMI, Eri; OGURA, Akihiro; TAKAO, Ken-ichi
- 4F3-09** Synthetic Studies of Bromophycolide A (Fac. Sci. Tech., Keio Univ.) ○OJI, Yurika; SUZUKI, Hina; OGURA, Akihiro; TAKAO, Ken-ichi
- 4F3-10^{*}** Synthesis of complex and structurally diverse scaffolds using reactivity of zerumbone (Grad. Sch. Agr. Sci., Kindai Univ.) ○UTAKA, Yoshimi; KASHIWAZAKI, Gengo; KAWAI, Yasushi; KITAYAMA, Takashi
- 4F3-12** Construction of a novel polycyclic compound utilizing the high reactivity of allen-zerumbone. (Fac. Agr., Kindai Univ.) ○YOSHIMURA, Kanta; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; WATANABE, Ryo; KITAMURA, Yuto; KITAYAMA, Takashi
- 4F3-13** Examination toward synthesis of a taxane ring from a natural product-derived cyclic allene compound (Grad. Sch. Agr. Sci., Kindai Univ.) ○KATO, Hiroyuki; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; WATANABE, Ryo; KAWAI, Yasushi; KITAYAMA, Takashi

Chair: OGURA, Akihiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4F3-15, 4F3-16, 4F3-17,

4F3-19, 4F3-20)

- 4F3-15** Total synthesis of valerena-4,7(11)-diene and its analogues (Grad. Sch. Agr. Sci., Kindai Univ.) ○TANEDA, Keigo; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; YATO, Shoji; KITAYAMA, Takashi
- 4F3-16^{*}** Membrane and cholesterol interactions of Diosgenyl saponins (Grad. Sch. Sci., Osaka Univ.) ○ONDEVILLA, Joan Candice; HANASHIMA, Shinya
- 4F3-17^{*}** Collaboration between the genome-mining approach and the crystalline sponge method facilitates rapid inquiries into the unexplored natural products (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Pharm., The Univ. of Tokyo; Biotechnology Research Center, The Univ. of Tokyo; IMS) ○MITSUHASHI, Takaaki; TANIGUCHI, Yoshimasa; NASU, Norihiro; NAGAE, Kei; KIKUCHI, Takashi; MURAI, Keiichi; KUZUYAMA, Tomohisa; ABE, Ikuro; FUJITA, Makoto
- 4F3-19** The effect of co-existing solvents in the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo) ○KAGEYAMA, Ko; MITSUHASHI, Takaaki; NASU, Norihiro; WADA, Naoki; KIKUCHI, Takashi; MURAI, Keiichi; KUZUYAMA, Tomohisa; ABE, Ikuro; FUJITA, Makoto
- 4F3-20** Determination of absolute configurations of metabolism sites in terpenoids by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo; Whitehead Institute; IMS) ○WADA, Naoki; NASU, Norihiro; SAKURAI, Fumie; CHRIST, Bastien; XU, Chengchao; XU, Menglong; LI, Fushuang; KIKUCHI, Takashi; FUJITA, Daishi; WENG, Jingke; FUJITA, Makoto

Room F4

Bldg. 3 354

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Saturday, March 16, PM

Chair: OSAKO, Takao (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1F4-25, 1F4-27, 1F4-28, 1F4-29, 1F4-30)
- 1F4-25[#]** Development of atom-economical C-C and C-N bond forming reactions for flow fine synthesis (Grad. Sch. Sci., The Univ. of Tokyo) ○LAROCHE, Benjamin; ISHITANI, Haruro; KOBAYASHI, Shu
- 1F4-27** Development of Continuous-flow Synthesis of Donepezil by Aldol Condensation and Hydrogenation of Aromatic Ring. (Grad. Sch. Sci., The Univ. of Tokyo) ○SOGO, Hideyuki; ISHITANI, Haruro; KOBAYASHI, Shu
- 1F4-28[#]** Development of catalytic routes to vinylidene keto esters by using heterogeneous Ni²⁺-montmorillonite and transformation into pyrazole cores under flow system (Grad. Sch. Sci., The Univ. of Tokyo) ○DAS, Amrita; ISHITANI, Haruro; KOBAYASHI, Shu
- 1F4-29[#]** Immobilized Rose Bengal as a Highly Active and Durable Sensitizer for Flow Photooxidative Reactions (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○WANG, Yao; MASUDA, Koichiro; ONOZAWA, Shun-ya; SHIMADA, Shigeru; KOUMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu
- 1F4-30[#]** Development of Catalytic Continuous-Flow Ozonolysis (Grad. Sch. Sci., The Univ. of Tokyo; IRC3, AIST) ○LU, Zheng; MASUDA, Koichiro; ONOZAWA, Shun-ya; SHIMADA, Shigeru; KOUMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu
- Chair: TAKAHASHI, Yusuke (14 : 20~15 : 10)
- * 14:10-14:20: interval for laptop PC connection.(1F4-33, 1F4-34, 1F4-35, 1F4-36, 1F4-37)
- 1F4-33** Immobilization of visible light photoredox catalysts using Metal Organic Framework (MOF) and the development of hydroaminoalkylation reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○MITSUMOTO, Daiki; SAITO, Yuki; KOBAYASHI, Shu
- 1F4-34** Noncovalent immobilization of chiral cationic Rh(I) complexes and their applications for asymmetric hydrogenation reactions. (Grad. Sch. Sci., The Univ. of Tokyo) ○SAITO, Yuki; KOBAYASHI, Shu
- 1F4-35** Development of a Novel Phenolsulfonic Acid-Formaldehyde Resin Catalyst and Its Application to Esterification of Various Carboxylic Acids and Alcohols under Flow Conditions (CSRS, Green Nanocatalysis Research Team, RIKEN) ○OTA, Hajime; BAEK, Heeyoung; SHINOHARA, Kenta; UOZUMI, Yasuhiro; YAMADA, Yoichi M. A.
- 1F4-36** A Self-Assembled Polymeric Pyridine Copper Catalyst for the Huisgen Cycloaddition with Alkynes and Acetylene Gas: Application in Synthesis of Tazobactam (CSRS, Green Nanocatalysis Research Team, RIKEN) ○HU, Hao; OHNO, Aya; SATO, Takuma; MASE, Toshiaki; UOZUMI, Yasuhiro; YAMADA, Yoichi M. A.
- 1F4-37[#]** Efficient and Green Synthesis of Propargylamines via A3 and KA2 Coupling Reactions Catalyzed by Polymer-Supported Copper(II)-Bipyridine Complex (LCCMS, IMS; ACCEL, JST) PAN, Shiguang; YAN, Shuo;

○OSAKO, Takao; UOZUMI, Yasuhiro

Chair: YAMADA, Yoichi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(1F4-39, 1F4-40, 1F4-41, 1F4-43, 1F4-44)

1F4-39 Selective hydrogenation of nitro compounds under continuous-flow conditions using polysilane/activated carbon/calcium phosphite-supported palladium and platinum catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○FURIYA, Yuichi; ISHITANI, Haruro; KOBAYASHI, Shu

1F4-40 Convenient Synthesis of Terpene-derived Chiral Diene through Multistep Continuous-flow Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○MILLER, Samuel Jacob; ISHITANI, Haruro; KOBAYASHI, Shu

1F4-41** Zirconium- β -zeolite catalyzed continuous-flow Friedel-Crafts acylation (Grad. Sch. Sci., The Univ. of Tokyo) ○RAO, Xiaofeng; ISHITANI, Haruro; KOBAYASHI, Shu

1F4-43* Continuous-flow Enantioselective 1,4-Addition Reactions with Heterogeneous Nickel Pro-catalysts Embedded on Column Reactors (Grad. Sch. Sci., The Univ. of Tokyo) ○KANAI, Kan; ISHITANI, Haruro; KOBAYASHI, Shu

1F4-44 Investigation on Continuous-flow Synthesis of Chiral Aliphatic Primary Amines through Asymmetric Henry Reaction (GSC Social Cooperation laboratory, School of Science) ○ISHITANI, Haruro; MILLER, Sam; SAITO, Yuki; KOBAYASHI, Shu

Chair: FUSE, Shinichiro (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1F4-46, 1F4-47, 1F4-49, 1F4-50)

1F4-46 Sequential *N,N,C*-Trialkylation of α -Oxime Ester Using a Flow System (Grad. Sch. Eng., Mie Univ.) ○OTA, Kazuki; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao

1F4-47** Study on effect of use of unreactive substances on organic photoreactions in flow microreactors (Grad. Sch. Sci. & Tech., NAIST; WINTEC) ○NAKANO, Momoe; HAYASHIDA, Kensuke; MORIMOTO, Tsumoru; MORI, Hajime; TOKUMOTO, Shinichi; NISHIYAMA, Yasuhiro; KAKIUCHI, Kiyomi

1F4-49 Efficient and scalable photosensitized [2+2] photocycloadditions of maleic anhydrides with ethylene in flow (Institute of Chemistry, University of Graz) ○NAKANO, Momoe; D. WILLIAMS, Jason; GÉRARDY, Romaric; A. RINCÓN, Juan; DE FRUTOS, Óscar; MATEOS, Carlos; CHRISTOPHE M., Jean; KAKIUCHI, Kiyomi; KAPPE, C. Oliver

1F4-50** Development of N-Doped Carbon Incarcerated Cobalt Nanoparticle Catalysts for Hydrofunctionalization of Olefins (Grad. Sch. Sci., The Univ. of Tokyo) ○YASUKAWA, Tomohiro; KOBAYASHI, Shu

Sunday, March 17, AM

Chair: ISHITANI, Haruro (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F4-01, 2F4-02, 2F4-03, 2F4-04, 2F4-05, 2F4-06)

2F4-01 Fast Optimization of Amidation Based on Quench-Flow Method (Grad. Sch. Eng., Kyoto Univ.) ○TAKUMI, Masahiro; YAMADA, Hidetaka; JIANG, Yiyuan; TAKENOUCI, Toru; AIZAWA, Yoko; NAGAKI, Aiichiro

2F4-02 Heterogeneous Schotten-Baumann reaction Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○JIANG, Yiyuan; TAKUMI, Masahiro; NAGAKI, Aiichiro

2F4-03 Generation and Reactions of Nitrogen-containing Aryllithiums Using Flow Microreactors (Sch. Eng., Kyoto Univ.) ○TAKEGAWA, Toshihiro; TAKAHASHI, Yusuke; AIZAWA, Yoko; TAMASHITA, Hiroki; KIM, Heejin; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

2F4-04 Fine Bubble-Mediated Organic Synthesis: Hydrogenation of Multiple Bonds and Aromatic Compounds (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○IIO, Takuya; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki

2F4-05 Effective Photo-Chemical Reaction by Fine Bubble (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○NAGAI, Kohei; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki

2F4-06 Synthesis of Fine Chemicals Using Fine Bubble and Flow-Optimization Methods (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MATSUO, Keiya; NAKAMURA, Yushi; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki

Chair: YASUKAWA, Tomohiro (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F4-08, 2F4-09, 2F4-10, 2F4-11, 2F4-12, 2F4-13)

2F4-08 Reaction Selectivity Control of Polyfunctional Electrophiles with Organolithiums (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Yusuke; FURUSAWA, Mai; SASATSUKI, Kengo; KIM, Heejin; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

2F4-09 Flow Synthesis of Functional Aryl Azide via Organolithiums (Grad. Sch. Eng., Kyoto Univ.) ○MANDAI, Kyoko; AIZAWA, Yoko; ICHINARI, Daisuke; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

2F4-10 Flow synthesis of aryl boronic acids with functional groups (Grad. Sch. Eng., Kyoto Univ.) ○AIZAWA, Yoko; MANDAI, Kyoko; KIM, Heejin; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

2F4-11 Synthesis of Styrene Derivatives using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○FURUSAWA, Mai; TAKAHASHI, Yusuke; AIZAWA, Yoko; TAKEGAWA, Toshihiro; NAGAKI, Aiichiro

2F4-12 Kinetic Analysis of Fast Amidation Using Flow Microreactors (Sch. Eng., Kyoto Univ.) ○TAKENOUCI, Toru; TAKUMI, Masahiro; JIANG, Yiyuan; NAGAKI, Aiichiro

2F4-13 Molecular Weight Distribution of Polymers Produced by Anionic Polymerization Enables Mixability Evaluation (Grad. Sch. Eng., Kyoto Univ.) ○ENDO, Yuta; FURUSAWA, Mai; SHIMAZAKI, Toshiya; TAKAHASHI, Yusuke; NAKAHARA, Yuichi; NAGAKI, Aiichiro

Chair: NAGAKI, Aiichiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F4-15, 2F4-16, 2F4-17, 2F4-18, 2F4-20)

2F4-15 Photo-induced Radical Bromoallylation of Alkynes in a Flow System (Fac. Sci., Osaka Pref. Univ.) FUKUYAMA, Takahide; ○DAKEGATA, Aki; KASAKADO, Takayoshi; RYU, Ilhyong

2F4-16 One-flow synthesis of tranexamic acid (Grad. Sch. Sci., Osaka Pref. Univ.) ○KUSAKA, Tatsuya; FUKUYAMA, Takahide; OHIRA, Masayuki; RYU, Ilhyong

2F4-17* Development of amide bond formation of *N*-methyl amino acids using micro-flow technology (IIR, Tokyo Tech.) ○FUSE, Shinichiro; ○TAKE, Yuma; NAKAMURA, Hiroyuki

2F4-18** An efficient synthesis of *N*-methylated peptides using micro-flow technology (Lab. Chem. Life Sci., Tokyo Tech.) ○TAKE, Yuma; NAKAMURA, Hiroyuki; FUSE, Shinichiro

2F4-20 Development of peptide chain elongation using unprotected amino acids in a micro-flow reactor (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) ○MASUDA, Koshiro; ○TAKE, Yuma; NAKAMURA, Hiroyuki; FUSE, Shinichiro

Sunday, March 17, PM

Chair: FUKUYAMA, Takahide (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2F4-29, 2F4-30, 2F4-31, 2F4-32, 2F4-33, 2F4-34)

2F4-29 Control of Isomerization in Stilbene α -Anion Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○YONEKURA, Yuya; KIM, Heejin; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

2F4-30 Generation and Functionalization of α -Anionic Tetrahydrofuran Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Yutaka; KIM, Heejin; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi

2F4-31 Modeling and Design of Flow Microreactor-based Process for Synthesizing Ionic Liquids (Ajinomoto Co., Inc.) ○NAKAHARA, Yuichi; METTEN, Bert; TONOMURA, Osamu; NAGAKI, Aiichiro; HASEBE, Shinji; YOSHIDA, Jun-ichi

2F4-32 Selective Generation of Carbocations by Brønsted Acids Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○YAMASHITA, Hiroki; NAGAKI, Aiichiro

2F4-33 Synthetic Study of N-Glycan Carrier Lipid Dolichol of Hyperthermophilic Archaea (Grad. Sch. Sci., Osaka Univ.) ○HIRAO, Koutarou; MANABE, Yoshiyuki; ONO, Risako; FUKASE, Koichi

2F4-34 Efficient synthesis of azo compound by micro droplet (Grad. Sch. Fundamental Sci. Eng., Waseda Univ.) ○SAWAI, Shunsuke; TANAKA, Daiki; YOON, Dong Hyun; SEKIGUCHI, Tetsushi; AKITSU, Takashiro; SHOJI, Shuichi

Chair: ARISAWA, Mitsuhiro (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2F4-36, 2F4-38, 2F4-39, 2F4-41)

2F4-36** N-Doped Carbon Incarcerated Bimetallic Nanoparticle Catalysts for Oxidation Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○YANG, Xi; YASUKAWA, Tomohiro; KOBAYASHI, Shu

2F4-38 Development of N-Doped Carbon Incarcerated Copper Nanoparticle Catalysts for Aerobic Oxidation of Alcohols using N-Oxyl Radicals (Grad. Sch. Sci., The Univ. of Tokyo) ○TOBITA, Fumiya; YASUKAWA, Tomohiro; KOBAYASHI, Shu

2F4-39** Development of Heterogeneous Rh and Rh/Ag Nanoparticle Catalysts Immobilized on Chiral Polymers: Reactivity, Mechanistic Insight, and Application to Flow System (Grad. Sch. Sci., The Univ. of Tokyo) ○MIN, Hyemin; MIYAMURA, Hiroyuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu

2F4-41* Chiral Rhodium Nanoparticle-catalyzed Asymmetric 1,4-Addition Reactions of Arylboronic Acids with β,γ -Unsaturated α -Ketocarbonyl Compounds (Grad. Sch. Sci., The Univ. of Tokyo) ○ZHU, Zhiyuan; MIYAMURA, Hiroyuki; YASUKAWA, Tomohiro; KOBAYASHI, Shu

Chair: MANDAI, Kyoko (16 : 00~16 : 50)

* 15:50-16:00: interval for laptop PC connection.(2F4-43, 2F4-44, 2F4-45, 2F4-47)

2F4-43 Development of ligand-free Suzuki-Miyaura coupling reaction of aryl chlorides using glass-supported Pd nanoparticle catalyst under continuous microwave irradiation (Grad. Sch. Pharm. Sci., Osaka Univ.) ○YAMADA, Makito; AKIYAMA, Toshiaki; OHKI, Yuta; TAKAHASHI, Naoyuki; HONNMA, Tetsuo; MURAI, Kenichi; ARISAWA, Mitsuhiro

- 2F4-44** Nickel nanoparticles-catalyzed ligand-free cross-coupling reactions of aryl halides with alkyl organometallic reagents (Sch. Pharm., Osaka Univ.)
 ○SHIO, Yasunori; AKIYAMA, Toshiki; HONMA, Tetsuo; MURAI, Kenichi; SATOU, Yoshihiro; ARISAWA, Mitsuhiro
- 2F4-45[#]** Development of Polymer-Supported Chiral Diene Ligands and Application to Catalytic Asymmetric Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○KUREMOTO, Tatsuya; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 2F4-47** Development of Synthetic Methods of Chiral Amines Using Heterogeneous Ir Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○MASUDA, Ryusuke; YASUKAWA, Tomohiro; KOBAYASHI, Shu

Room F5

Bldg. 3 355

Biofunctional Chemistry ; Biotechnology

Saturday, March 16, AM

Molecular Recognition

Chair: MIYATAKE, Tomohiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1F5-01, 1F5-02, 1F5-03, 1F5-04, 1F5-05, 1F5-06)
- 1F5-01** Reconstitution of 3-acetyl chlorophyll *a* into the LH2 protein from the purple photosynthetic bacterium *Phaeospirillum molischianum* (Fac. Sci. Eng., Kindai Univ.) ○YAMASHITA, Madoka; SAGA, Yoshitaka
- 1F5-02** Selective Oxidation of B800 Bacteriochlorophyll *a* in the LH2 protein from Purple Photosynthetic Bacteria (Fac. Sci. Eng., Kindai Univ.) SAGA, Yoshitaka; ○OTSUKA, Yuji; KAWANO, Kiyoshiro; YAMASHITA, Madoka
- 1F5-03** Kinetic analysis of epimerization of bacteriochlorophyll *a* and chlorophyll *a* (Fac. Sci. Eng., Kindai Univ.) SAGA, Yoshitaka; ○NAKAGAWA, Shiori
- 1F5-04** Synthesis and physical properties of fluorinated chlorophyll-*a* (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○NAKANO, Kohei; OGASAWARA, Shin; TAMIAMI, Hitoshi
- 1F5-05** Regioselective Deuteration of Chlorophyll Derivatives and Their Physical Properties (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○MIYANISHI, Takuya; TAMIAMI, Hitoshi
- 1F5-06** Isolation and optical properties of epimerically pure bacteriochlorophyll-*f* homologs (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KINOSHITA, Yusuke; HARADA, Jiro; MIZOGUCHI, Tadashi; TAMIAMI, Hitoshi
- Chair: SAGA, Yoshitaka (10 : 10 ~ 11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(1F5-08, 1F5-09, 1F5-10, 1F5-11, 1F5-12, 1F5-13)
- 1F5-08** Aggregation of chlorophylls by using peptide-modified chlorophyll derivatives (Faculty of Science and Technology,) ○YAMAMOTO, Ryuichi; MIYATAKE, Tomohiro
- 1F5-09** Properties of chlorophyll derivatives in lipid assemblies (Fac. Sci. Tech., Ryukoku Univ.) ○HORIUCHI, Ayu; KUMODA, Masaki; NISHIMURA, Noriaki; MIYATAKE, Tomohiro
- 1F5-10** Design of novel cyclic ferrocenylated naphthalene diimide as a reagent for electrochemical cancer diagnosis (Grad. Sch. Eng., KIT) ○SHUMA, Kaneyoshi; KAZUHISA, Fujimoto; SHINOBU, Sato; SHIGEORI, Takenaka
- 1F5-11** Recognition of telomere G-quadruplex DNA with cyclic naphthalene diimide dimer (Grad. Sch. Eng., KIT) ○TAKEUCHI, Ryusuke; ZOU, Tingting; SATO, Shinobu; TAKENAKA, Shigeori
- 1F5-12[#]** Pyrrole-based oligoamides for specific DNA recognition (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ASAMITSU, Sefan; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 1F5-13[#]** Synthetic gene switches for cellular reprogramming (Grad. Sch. Med., Kyoto Univ.) ○MALINEE, Madhu; PANDIAN, Ganesh; SUGIYAMA, Hiroshi

Chair: MIYATAKE, Tomohiro (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1F5-15, 1F5-16, 1F5-17, 1F5-18, 1F5-19)
- 1F5-15** Triple pH response of singlet oxygen formation by a porphyrin derivative (Grad. Sch. Sci. Tech., Gunma Univ.) ○HORIUCHI, Hiroaki; TAJIMA, Kazuya; OKUTSU, Tetsuo
- 1F5-16** Evaluation of photosensitizing properties and protein photodamaging effects of pH-dependent porphyrin P(V) complexes (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○ONISHI, Yusuke; OUYANG, Dongyan; HORIUCHI, Hiroaki; OKAZAKI, Shigetoshi; HIRAKAWA, Kazutaka
- 1F5-17** Synthesis of water-soluble imidazolyl zinc porphyrins having malic acid groups and their coordination behaviors in water (Grad. Sch. Sci., TUS) ○MUROGA, Tomoya; KURAMOCHI, Yusuke; SATAKE, Akiharu
- 1F5-18** An Aqueous Biomimetic Model of Myoglobin with a Distal Polar

- Functionality (Grad. Sch. Eng., Doshisha Univ.) ○MAO, Qiyue; BOITREL, Bernard; KITAGISHI, Hiroaki
- 1F5-19[#]** Conjugate of pi-extended porphyrin/drug delivery carrier for near-infrared cancer phototherapy (RIES, Hokkaido Univ.; Grad. Sch. Env. Sci., Hokkaido Univ.; Grad. Sch. Pharm., Hokkaido Univ.) ○TAKANO, Yuta; SATRIALDI, -; MUNECHEKA, Reina; HARASHIMA, Hideyoshi; YAMADA, Yuma; BIJU, Vasudevanpillai

Saturday, March 16, PM

Chair: HORIUCHI, Hiroaki (13 : 30 ~ 14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1F5-28, 1F5-29, 1F5-30, 1F5-31, 1F5-32, 1F5-33)
- 1F5-28** Evaluation of indolequinone-tethered prodrugs of 5-fluorodeoxyuridine that were activated by reduction enzymes in hypoxic tumor cells (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○JIHO, Yota; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 1F5-29** Synthesis of ligand molecules bearing acetylene tag for identification of metal ion by Raman spectroscopy (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TAKEMURA, Seiya; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 1F5-30** Synthesis and characterization of fluorescent probes utilizing lysosomal protease reaction for detection of mitophagy (Fac. Sci., Fukuoka Univ.) ○OGIWARA, Yuta; NAGAHORA, Noriyoshi; OKUMA, Kentaro; SHIOJI, Kosei
- 1F5-31** Discrimination of zinc and cadmium ions by tetrakisquinoline derivatives with conformational restriction (Grad. Sch. Human Sci., Nara Women's Univ.) ○TANAKA, Marin; NOZAKI, Kana; MATSUMOTO, Arimasa; MIKATA, Yuji
- 1F5-32** Intracellular Delivery of Biomacromolecules Using Supramolecular Interaction between Adamantane and Cyclodextrin (Grad. Sch. Eng., Doshisha Univ.) ○MISA, Jiomaru; HIROAKI, Kitagishi
- 1F5-33** Synthesis of a water-soluble iron porphyrin having 5th ligand and construction of heterobinuclear complex using this porphyrine with three coordination copper. (Doshisha Univ.) ○KUDO, Yasuhiro; KITAGISHI, Hiroaki

Chair: ITO, Hidehiro (14 : 40 ~ 15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(1F5-35, 1F5-36, 1F5-37, 1F5-38, 1F5-39)
- 1F5-35** Photothermal Effect of Near-Infrared Absorbing Diradical-Platinum (II) Complex for Photothermal Therapy (Grad. Sch. Environmental Studies, Tohoku Univ.) ○SAWAMURA, Ryota; SATO, Masataka; MASUYA-SUZUKI, Atsuko; INO, Kousuke; SHIKU, Hitoshi; IKI, Nobuhiko
- 1F5-36** Mechanistic study of the reaction between alkoxyl radical and lipophilic molecules using Lipophilic-flow-injection ESR system. (KIT) ○SAKURAI, Yasuhiro; YAMAGUCHI, Tomoko; ANDO, Kai; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko
- 1F5-37** Kinetic investigation of the reaction between superoxide anion radical and phenolic compounds. (KIT) ○YAMAGUCHI, Shuhei; LU, Yao; YAMASHITA, Tomonori; SAKURAI, Yasuhiro; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko
- 1F5-38** Light-driven CO₂ reduction to formic acid with semiconductor photocatalysis and biocatalysis (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○ISHIBASHI, Tomoya; IKEYAMA, Shusaku; AMAO, Yutaka
- 1F5-39** Biocatalytic carboxylation with CO₂ by malic enzyme and diphenylviologen derivative as an artificial co-enzyme (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○KATAGIRI, Takayuki; IKEYAMA, Shusaku; AMAO, Yutaka

Biocatalyzed Reaction

Chair: HARADA, Jiro (15 : 40 ~ 16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1F5-41, 1F5-43, 1F5-44, 1F5-45, 1F5-46)
- 1F5-41[#]** Development of the Stereoselective Oxidation System Catalyzed by Cytochrome P450BM3 Using Decoy Molecules (Grad. Sch. Sci., Nagoya Univ.) ○SUZUKI, Kazuto; SHOJI, Osami; STANFIELD, Joshua Kyle; YANAGISAWA, Sota; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito
- 1F5-43** Studies on reductive desymmetrization of prochiral 1,3-diketones by biocatalyst and utilization for microbial hormone synthesis (Sch. Sci. Eng., Meisei Univ.) ○MONNA, Takashi; TSUKUDA, Takehiro; KATO, Mako; FUHSUKU, Ken-ichi
- 1F5-44[#]** Structure analysis of an acetophenone reductase from *Geotrichum candidum* NBRC 4597 with Remarkable Excellent Enantioselectivity (Sch. Life Sci. Tech., Tokyo Tech.) ○KOESOEEMA, Afifa Ayu; SUGIYAMA, Yosuke; VERINA, Samantha; T.SRIWONG, Kotchakorn; XU, Zichang; STANDLEY, Daron M.; SENDA, Miki; SENDA, Toshiya; MATSUDA, Tomoko
- 1F5-45** The biotransformation of flavonoid using plant cultured cells (Fac. of Sci., Okayama Univ. of Sci.) ○INOUE, Manami; FUJITAKA, Yuya; YANAGI, Masayoshi; OZAKI, Shin-ichi; NAKAYAMA, Toru; WAKI, Toshiyuki; SHIMODA, Kei; HAMADA, Hiroki

HBiocatalyzed Reaction

1F5-46 The *Marchantia polymorpha* plant cultured cells from subculture for 35 years had carotenoid biosynthesis function (Fac. of Sci., Okayama Univ. of Sci.) ○HAMADA, Hiroki; SHIMODA, Kei; TAKEMURA, Miho; OZAKI, Shin-ichi

Biocatalyzed Reaction

Chair: KITAGISHI, Hiroaki (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1F5-48, 1F5-49, 1F5-50, 1F5-51, 1F5-52, 1F5-53)

1F5-48 Synthesis of optically active 2,3-dihydrozerumbone by asymmetric reduction of zerumbone with a cyanobacterium (Grad. Sch. Agr. Sci., Kindai Univ.) ○KAWASAKA, Masayo; UTAKA, Yoshimi; KASHIWAZAKI, Gengo; YAMANAKA, Rio; KITAYAMA, Takashi

1F5-49 Synthetic study of optically active 2,3-dihydrozerumbol using lipase-catalyzed transesterification (Grad. Sch. Agr. Sci., Kindai Univ.) ○HIRAMOTO, Rikako; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; KAWASAKA, Masayo; KITAYAMA, Takashi

1F5-50 Photocatalytic Hydrogen Evolution with [NiFeSe] Hydrogenase in a Mediator Free Carbon-Nanotube-Photosensitizing System (Grad. Sch. Env. Life Sci., Okayama Univ.) ○TAJIMA, Tomoyuki; HAKAMAZUKA, Hibiki; WATANABE, Ken; MIYAKE, Hideaki; TODA, Takayuki; TAMURA, Takashi; TAKAGUCHI, Yutaka

1F5-51 Preparation of pyrochlorophylls by demethoxycarbonylase (Coll. Pharm. Sci., Ritsumeikan Univ.) TAMIYAKI, Hitoshi; ○HIROSE, Mitsuki; TERAMURA, Misato; HARADA, Jiro

Others

1F5-52 Development of a Novel Acetyl Glucose-modified Gefitinib Derivative for Improvement of Radiosensitizing Effect (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○YAMAHANA, Hirari; SHINOHARA, Yusei; HANYU, Ayaka; TANAKA, Yuya; YAMADA, Hisatsugu; UTO, Yoshihiro

1F5-53 Cytotoxic evaluation of fullerenes modified with psoralen (Fac. Eng., KAIT) ○HASHIMOTO, Akiko; TAKAMURA, Takeji

Sunday, March 17, AM

Carbohydrate

Chair: TANAKA, Tomonari (9 : 30 ~ 10 : 40)

* 9:20-9:30: interval for laptop PC connection.(2F5-04, 2F5-05, 2F5-06, 2F5-07, 2F5-08, 2F5-09)

2F5-04 Elucidation of the relationship of the stability of glycoproteins and the function of an oligosaccharide by HDX-MS (Grad. Sch. Sci., Osaka Univ.) ○TANAKA, Yuya; OKAMOTO, Ryo; MAKI, Yuta; KAJIHARA, Yasuhiro

2F5-05[#] Tumor targeting by "higher ordered" pattern recognition of *N*-glycocluster (Biofunc. Syn. Chem. Lab., RIKEN) ○SMIRNOV, Ivan; SIBGATULLINA, Regina; KURBANGALIEVA, Almira; TANAKA, Katsunori

2F5-06 Chemical synthesis and functional analysis of antifreeze glycoproteins having unnatural *O*-glycosylation (Sch. Sci., Osaka Univ.) ○SHIBATA, Hiroyuki; MAKI, Yuta; HUKAMI, Daichi; TSUDA, Sakae; KAJIHARA, Yasuhiro; OKOMOTO, Ryou

2F5-07 semi-Synthesis of Fc fragment and their folding study for dimerization (Grad. Sch. Sci., Osaka Univ.) ○UEDA, Minami; IMADA, Shohei; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

2F5-08 Synthesis and interaction analysis of sialyl Tn antigen sugar chain containing *N*-glycolylneuraminic acid moiety (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○HASHIGUCHI, Kaito; YADA, Masayuki; IIBOSHI, Kanta; WAKAO, Masahiro; SUDA, Yasuo

2F5-09^{##} Elucidation of role of *O*-GalNAc residue by using chemically synthesized antifreeze glycoprotein (Grad. Sch. Sci., Osaka Univ.) ○ORII, Ryo; FUKAMI, Daich; TSUDA, Sakae; MAKI, Yuta; IZUMI, Masayuki; KAJIHARA, Yasuhiro; OKAMOTO, Ryo

Chair: YAMAGUCHI, Takumi (10 : 50~11 : 30)

* 10:40-10:50: interval for laptop PC connection.(2F5-12, 2F5-13, 2F5-14, 2F5-15)

2F5-12 Monitoring of glycoprotein quality control system by means of UDP-[U-13C]-glucose (Sch. Sci., Osaka Univ.) ○OTANI, Yuiko; MUKOGAWA, Yuki; YAMAUCHI, Miki; IZUMI, Masayuki; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

2F5-13 Precision synthesis of glycopolymers using sialyl glycopeptide and their assay (KIT) ○TANAKA, Tomonari; NAKASHIMA, Keita

2F5-14 Synthetic study of *N*-linked oligosaccharide with lactam structure (Sch. Sci., Osaka Univ.) ○MORIGUCHI, Tatsuya; MATSUNO, Tsuyoshi; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

2F5-15 Stereoselective synthesis of *P*-modified glycosyl phosphate analogues derived from *Leishmania* (TUS) ○HAGIO, Tomoya; YAOITA, Aya; SANO, Michi; NORO, Mihoko; HARA, Rintaro; SATO, Kazuki; WADA, Takeshi

Sunday, March 17, PM

(12 : 40~13 : 10)

* 12:30-12:40: interval for laptop PC connection.(2F5-23, 2F5-24)

2F5-23 High binding affinity of neuraminidase resistant sialoside-modified trimer DNA for various influenza viruses (Grad. Sch. Human Dev. Env., Kobe Univ.) ○YAMABE, Miyuki; KAIHATSU, Kunihiro; EBARA, Yasuhiro

2F5-24^{##} Semisynthesis of α 2,6-sialyltransferase bearing a high mannose type oligosaccharide and evaluation of its enzymatic activity (Grad. Sch. Sci., Osaka Univ.) ○SHIMADA, Arisa; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Chair: WAKAO, Masahiro (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2F5-27, 2F5-28, 2F5-29, 2F5-30, 2F5-31)

2F5-27 Semisynthetic Study of Chondroitin Sulfate (Grad. Sch. Sci., Osaka Univ.) ○KOBAYASHI, Atsumi; MANBO, Akihiro; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

2F5-28 Structural analysis of chondroitin sulfates by using molecular simulations (Sch. Mat. Sci., JAIST) ○TAKIZAWA, Kouichi; YAMAGUTI, Takumi

2F5-29[#] Synthesis of Japanese encephalitis virus infection inhibitor with unsaturated bond introduced to glucuronic acid (Aichi Univ. of Educ.; The Univ. of Aizu) ○KONDO, Reo; HIDARI, Kazuya; NAKANO, Hirofumi

2F5-30[#] Synthesis of β -galactopyranoside-based molecules for inhibitor of Japanese encephalitis virus infection and *N*-acetylglucosamine 4-sulfate 6-*O*-sulfotransferase (Aichi Univ. of Educ.) ○HOR, Seanghai; YAMAGUCHI, Hiromi; KODAMA, Takumi; SUGIURA, Nobuo; WATANABE, Hideto; HIDARI, Kazuya; YAMANAKA, Takashi; HABUCHI, Osami; NAKANO, Hirofumi

2F5-31^{##} New Glycosylation Reaction Using Sulfated Glycosyl Donors and Sulfated Oligosaccharide Synthesis (Grad. Sch. Sci., Osaka Univ.) ○MANBO, Akihiro; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; KAJIHARA, Yasuhiro

Monday, March 18, AM

Biotechnology

Chair: MURASHIMA, Takashi (9 : 10 ~ 10 : 10)

* 9:00-9:10: interval for laptop PC connection.(3F5-02, 3F5-03, 3F5-05, 3F5-06)

3F5-02 Characterization of chitinase gene deletion mutants of the hyperthermophilic archaeon, *Pyrococcus chitonophagus* (Grad. Sch. Eng., Kyoto Univ.) YAMADA, Masahiro; NAKATA, Natsuki; ASLAM, Mehwish; HORIUCHI, Ayumi; ○KANAI, Tamotsu; ATOMI, Haruyuki

3F5-03* Development of a rapid and sensitive biomolecule detection method utilizing antibody-coated magnetic beads (Sch. Life Sci. Tech., Tokyo Tech.; Sch. Med., Keio Univ.; JVC KENWOOD Inc.; Dept. Nanoparticle Trans. Res., Tokyo Med. Univ.; Tohoku Univ., Tohoku Megabank Organization; IMS, The Univ. of Tokyo; RIKEN IMS; CREST, AMED) ○SAKAMOTO, Satoshi; KABE, Yasuaki; HIRAI, Miwa; KOIKE, Ikko; HISHIKI, Takako; MATSUDA, Atsushi; HASEGAWA, Yuichi; TSUJITA, Koji; ONO, Masayuki; MINEGISHI, Naoko; HOZAWA, Atsushi; MURAKAMI, Yoshinori; KUBO, Michiaki; MOCHIZUKI, Yusuke; KAWATA, Shintaro; NAITO, Yasuyuki; MATSUDA, Sachiko; KITAGAWA, Yuko; ITONAGA, Makoto; SUEMATSU, Makoto; HANDA, Hiroshi

3F5-05 Development of Novel Trispecific Antibody Retargeting Both T and NK Cells to Cancer Cells (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KIMURA, Kouki; KUWAHARA, Atsushi; SUZUKI, Saori; NAKANISHI, Takeshi; ASANO, Ryutaro

3F5-06^{##} Development of Fluorescent Lactate Indicator for Investigation of Unconventional Metabolism (Grad. Sch. Sci., The Univ. of Tokyo) ○NASU, Yusuke; CAMPBELL, Robert

Chair: NASU, Yusuke (10 : 20~11 : 30)

* 10:10-10:20: interval for laptop PC connection.(3F5-09, 3F5-10, 3F5-11, 3F5-13, 3F5-14, 3F5-15)

3F5-09 Detecting airborne particulate matter using 3D-integrated nanopores (ISIR, Osaka Univ.) ○TSUTSUI, Makusu; YOKOTA, Kazumichi; ARIMA, Akihide; TANIGUCHI, Masateru; WASHIO, Takashi; KAWAI, Tomoji

3F5-10 Function of gold nanoparticles coated by polyvinylpyrrolidone in living cells that oxidized cellular carbon monoxide (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TAKAHASHI, Miyuki; KURIHARA, Ryohsuke; TANABE, Kazuhito

3F5-11* Highly sensitive antibody-associated fluorescence sensing materials capable of intact exosomes recognition for cancer diagnosis (Grad. Sch. Eng., Kobe Univ.) MORI, Kisho; KATAYAMA, Wataru; SHIMIZU, Taku; MINAMOTO, Kazuaki; MORISHIGE, Takahiro; TAKANO, Eri; KITAYAMA, Yukiya; ○TAKEUCHI, Toshifumi

3F5-13[#] Performance improvement of Au-capped LSPR chip by oxygen plasma treatment and its application to biosensing (AIST PhotoBIO-OIL) ○LUO,

- Xi; UCHIYAMA, Sachiyo; SAITO, Masato; TAMIYA, Eiichi
3F5-14[#] Centrifugal microfluidic LSPR biosensor for single cell analysis (Grad. Sch. Eng., Osaka Univ.) ○ZHU, Chen; LUO, Xi; ESPULGAR, Wilfred; SAITO, Masato; TAMIYA, Eiichi
3F5-15 Specify method for SNPs using AIE dye. (FIRST, Konan Univ.) MURASHIMA, Takashi; ○KINUGASA, Shino

Monday, March 18, PM

Lipid/Biomembrane

Chair: MURAOKA, Takahiro (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(3F5-23, 3F5-25, 3F5-27)
3F5-23^{}** Control of Ion Permeability of Amphotericin B Channels Using Metal Complex Formation (Coll. Life Sci., Ritsumeikan Univ.) ○KOSHIIYAMA, Tomomi; INOUE, Yuki; OHBA, Masaaki
3F5-25^{}** Detailed insight for the effect of specific interaction with lipids on membrane protein activation (Grad. Sch. Sci., Kyushu Univ.) ○INADA, Masataka; KINOSHITA, Masanao; IWAMOTO, Masayuki; OIKI, Shigetoshi; MATSUMORI, Nobuaki
3F5-27^{}** Dynamic behavior of ceramide-1-phosphate in lipid bilayers examined by fluorescence lifetime measurement (Dept. biosci. Abo Akademi Univ.) ○YASUDA, Tomokazu; SLOTTE, J. Peter

Chair: MORI, Toshiaki (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(3F5-30, 3F5-31, 3F5-32, 3F5-33, 3F5-34, 3F5-35)
3F5-30 Effect of Inhalation Anesthetics on Artificial Lipid Membrane (Grad. Sch. Sci., Kyushu Univ.) ○KAWAGUCHI, Tsubasa; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3F5-31[#] Design and Synthesis of C₂-Symmetric Alkaloidal Chiral Amphiphiles and Configurational Effects on Self-Assembly (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TSUCHIYA, Nana; RYU, Yunosuke; MURAOKA, Takahiro; OGURI, Hiroki
3F5-32 Dynamic clusterization of neoglycolipids through Schiff base formation (Sch. Mat. Sci., JAIST) ○INABA, Shusei; MORI, Kazuki; KURIHARA, Kensuke; YAMAGUCHI, Takumi
3F5-33 Fragmentation on lipid bilayer by amphiphilic polymers toward formation of lipid nanodiscs (Grad. Sch. Sci. & Tech., NAIST) ○MITSUYOSHI, Yuma; ARAKIDA, Jin; RAPENNE, Gwenael; KIKUCHI, Junichi; YASUHARA, Kazuma
3F5-34 Analysis of electrostatic interaction between ganglioside GM3 and insulin receptor using transmembrane peptide (Grad. Sch. Sci., Osaka Univ.) ○NIMURA, Yuka; KABAYAMA, Kazuya; ASAHINA, Yuya; HANASHIMA, Shinya; HOJO, Hironobu; MURATA, Michio; FUKASE, Koichi
3F5-35 Identification of lipid-specific proteins by lipid-immobilized beads (Grad. Sch. Sci., Kyushu Univ.) ○YASUDA, Hiroki; KINOSHITA, Masanao; MATSUMORI, Nobuaki; MATSUFUJI, Takaaki

Chair: MATSUMORI, Nobuaki (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(3F5-37, 3F5-38, 3F5-39, 3F5-40, 3F5-41, 3F5-42)
3F5-37 Sphingomyelin interactions in asymmetric large unilamellar vesicles based on solid state NMR (Sch. Sci., Osaka Univ.) ○YANO, Yo; HANASHIMA, Shinya; TSUCHIKAWA, Hiroshi; MURATA, Michio; LONDON, Erwin
3F5-38 Observation of lipid membrane degradation behavior by sphingomyelinase and its mechanism in real time using AFM dynamic measurement (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○MUROYA, Ayumi; TANAKA, Rina; KURIHARA, Keisuke; MORI, Toshiaki
3F5-39 Preparation of oriented lipid hybrid chitin nanoscale film (Sch. Biosci. Biotech., Tokyo Tech.) ○NOJIMA, Yuuki; ASATO, Kengo; MORI, Toshiaki
3F5-40 Molecular orientation and conformation accounting for specific stability of diphtanoyl PC bilayers bearing methyl-branched fatty acyl groups. (Grad. Sch. Sci., Osaka Univ.) ○ONO, Takuya; TSUCHIKAWA, Hiroshi; YAMAGAMI, Masaki; UMEGAWA, Yuichi; MURATA, Michio; SHINODA, Wataru
3F5-41 Interleaflet interaction of long-chain sphingomyelin in mixed model membrane (Grad. Sch. Sci., Osaka Univ.) ○ADACHI, Miwako; MORIUCHI, Mai; TSUCHIKAWA, Hiroshi; SEO, Sangjae; SHINODA, Wataru; MURATA, Michio
3F5-42 Solid state NMR study of the phase separation in ternary lipid mixtures using a novel side-chain deuterated cholesterol (Grad. Sch. Sci., Osaka Univ.) ○IBATA, Yuki; HANASHIMA, Shinya; YASUDA, Tomokazu; TSUCHIKAWA, Hiroshi; MURATA, Michio

Chair: MURATA, Michio (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(3F5-44, 3F5-45, 3F5-46, 3F5-47)
3F5-44 Synthesis and properties of artificial domain incorporating metal complex lipids in lipid bilayer membrane (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○ANEKAWA, Yuka; OHTANI, Ryo; NAKAMURA, Masaaki; HAYAMI, Shinya

- 3F5-45** Influence of interlayer asymmetry on the physico-chemical properties of artificial raft (Grad. Sch. Sci., Kyushu Univ.) ○KOGA, Takuya; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3F5-46 Effect of sphingomyelin acyl chain length on lipid raft formation studied by fluorescent sphingomyelins (Grad. Sch. Sci., Kyushu Univ.) ○HIRANO, Kana; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3F5-47 Young Scholar Lectures of CSJ Formation of artificial cell membranes with biological functions (Grad. Sch. Sci. Tech., Gunma Univ.; KISTEC) ○KAMIYA, Koki

Chair: KOSHIYAMA, Tomomi (17 : 20~18 : 00)

- * 17:10-17:20: interval for laptop PC connection.(3F5-51, 3F5-52, 3F5-53)
3F5-51 Low-flux election-diffraction discloses the local structure of lipid membrane. (Grad. Sch. Sci., Kyushu Univ.) ○YAMAGUCHI, Shimpei; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3F5-52 Rotational correlation time of sphingomyelin and estimation of the domain size based on NMR relaxation time (Grad. Sch. Sci., Osaka Univ.) ○KINOSHITA, Yuya; UMEGAWA, Yuichi; TSUCHIKAWA, Hiroshi; MURATA, Michio
3F5-53^{*} Emphatic visualization of sphingomyelin-rich domains by inter-lipid FRET imaging using fluorescent sphingomyelins (Fac. Sci., Kyushu Univ.) ○KINOSHITA, Masanao; ANO, Hikaru; MURATA, Michio; SHIGETOMI, Kenta; IKENOUCHI, Junichi; MATSUMORI, Nobuaki

Room F6

Bldg. 3 356

Biofunctional Chemistry ; Biotechnology

Saturday, March 16, PM

Cell

Chair: YAMAGUCHI, Satoshi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1F6-29, 1F6-30, 1F6-31, 1F6-33)
1F6-29 Development of microfluidic device for single cell pair analysis of T cell-APC interaction (Grad. Sch. Eng., Osaka Univ.) ○IDE, Hiroki; ESPULGAR, Wilfred; SAITO, Masato; AOSHI, Taiki; TAMIYA, Eiichi
1F6-30 In situ Detection of Penicillin and Avermectin in Microbes by Raman Microspectroscopy and Multivariate Analysis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HORII, Shumpei; ANDO, Masahiro; TAKE, Akira; ASHOK, Saumel; NAKASHIMA, Takuji; MATSUMOTO, Atsuko; TAKAHASHI, Yoko; TAKEYAMA, Haruko
1F6-31^{}** Acceleration of Articular Cartilage Regeneration in Degradable and Injectable IPN Hydrogel Containing Growth Factor (Fac. Sci., TUS) ○ISHIKAWA, Shohei; YAMAGUCHI, Hiro; IJIMA, Kazutoshi; OSAWA, Shigeito; IJIMA, Michihiro; OTSUKA, Hidenori
1F6-33^{}** High-throughput broadband Raman flow cytometry (Grad. Sch. Sci., The Univ. of Tokyo) ○HIRAMATSU, Kotaro; IDEGUCHI, Takuro; YONAMINE, Yusuke; LEE, Sangwook; YIZHI, Luo; HASHIMOTO, Kazuki; ITO, Takuro; HASE, Misa; JEE WOONG, Park; KASAI, Yusuke; SAKUMA, Shinya; HAYAKAWA, Takeshi; ARAI, Fumihito; HOSHINO, Yu; GODA, Keisuke

Chair: NAKAMURA, Chikashi (14 : 50~16 : 00)

- * 14:40-14:50: interval for laptop PC connection.(1F6-36, 1F6-37, 1F6-38, 1F6-39, 1F6-40, 1F6-41)
1F6-36 Construction of methanol dehydrogenase gene deletion mutant of *Methylosinus trichosporium OB3b* (Sch. Life Sci. Tech., Tokyo Tech.) ○YOSHIMORI, Kosei; ITO, Hidehiro; ISHIKAWA, Masahito; HORI, Katsutoshi; KAMACHI, Toshiaki
1F6-37^{}** The development of single-cell sorting method using photodegradable-hydrogel encapsulation within microwell (RCAST, The Univ. of Tokyo) ○HOSOGANE, Tsuyoshi; YAMAGUCHI, Satoshi; SAKAKIBARA, Shouichi; TABATA, Kazuhito; NOJI, Hiroyuki; OKAMOTO, Akimitsu
1F6-38 High-throughput droplet sorting enhanced by an electrode array and its applications (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAGAWA, Yuta; LOO, Mun Hong; SETYANINGRUM, Dwi Larasati; NAGASAWA, Kazumichi; WATARAI, Hiroshi; ISOZAKI, Akihiro; GODA, Keisuke
1F6-39^{*} An electrode-array-based high-throughput nano-liter-droplet sorter assisted by a slanted microchannel (Grad. Sch. Sci., The Univ. of Tokyo) ○LOO, Mun Hong; NAKAGAWA, Yuta; AKIHIRO, Isozaki; GODA, Keisuke
1F6-40 Characterization of the polyacrylamide-based core-shell fibermats using polycaprolactone as an outer-shell unit. (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MIZUNO, Toshihisa; ASANO, Yuki; OBATA, Akiko; KASUGA, Toshihiro
1F6-41^{*} Intelligent Image-Activated Cell Sorting: Principles and Applications (Grad. Sch. Sci., The Univ. of Tokyo) ○HIRAMATSU, Kotaro; NITTA, Nao; SUGIMURA, Takeaki; ISOZAKI, Akihiro; MIKAMI, Hideharu; DI

CARLO, Dino; HOSOKAWA, Yoichiro; UEMURA, Sotaro; OZEKI, Yasuyuki; GODA, Keisuke

Chair: MIZUNO, Toshihisa (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1F6-44, 1F6-45, 1F6-46, 1F6-47, 1F6-48)

1F6-44 Analysis of chloride ion efflux ability in highly metastatic mouse breast cancer cell (BRI, AIST) ○YAMAGISHI, Ayana; KIM, Hyonchol; NAKAMURA, Chikashi

1F6-45 Analysis of interaction between nestin tail domain and actin filament (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUSAKI, Moe; YAMAGISHI, Ayana; NAGASAKI, Akira; KIJIMA, Saku; UYEDA, Taro; MIZUSAWA, Mei; NAKAMURA, Chikashi

1F6-46 Extraction of endosomes from live cells by use of antibody-functionalized nanoneedle (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HONDA, Yuki; MATSUMOTO, Yuta; YAMAZAKI, Tomohiko; NAKAMURA, Chikashi

1F6-47[#] Rapid three-dimensional printing of hydrogels using a pin art device (Tohoku Univ.) ○TAIRA, Noriko; INO, Kosuke; NASHIMOTO, Yuji; SHIKU, Hitoshi

1F6-48[#] Culture and mechanoresponse analysis of mouse neural stem cell using a radiation cross-linked poly(vinylalcohol) gel (Grad. Sch. Sci., Osaka Pref. Univ.) ○MORI, Hideki; HARA, Masayuki

Chemical Biology

Sunday, March 17, AM

Chair: TAMURA, Satoru (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F6-01, 2F6-03, 2F6-05, 2F6-06)

2F6-01[#] Interaction of ganglioside with the EGF receptor transmembrane segments in model membrane (Grad. Sch. Sci., Osaka Univ.) ○NAKANO, Mikito; HANASHIMA, Shinya; HARA, Toshiaki; MURATA, Michio; KABAYAMA, Kazuya; FUKASE, Koichi; ANDO, Hiromune; SUZUKI, Kenichi; SLOTTE, Peter

2F6-03[#] Structure activity relationship study of abscisic acid (ABA) receptor antagonist RK460 (RIKEN CPR; RIKEN CSRS; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MIKAME, Yu; YOSHIDA, Kazuo; HIRAI, Go; NAGASAWA, Kazuo; OSADA, Hiroyuki; SODEOKA, Mikiko

2F6-05 Synthesis and Functional Evaluation of Inositol Phospholipids Containing Ceramide (Grad. Sch. Sci. Tech., Keio Univ.) ○NABIKI, Etsuko; SUEHARA, Sae; AIBA, Toshihiko; SAITO, Ryota; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari

2F6-06 Synthesis and immunomodulatory activities of covalent CD1d ligands (Grad. Sch. Sci. Tech., Keio Univ.) ○KISHI, Junichiro; INUKI, Shinsuke; FUJIMOTO, Yukari

Chair: SAKURAI, Kaori (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F6-08, 2F6-09, 2F6-11, 2F6-13)

2F6-08 Lipid conjugates as the ligand of C-type lectin receptor Mincle: synthesis and functions (Fac. Sci. Tech., Keio Univ.; Fac. Pharm., Hokkaido Univ.; RIMD, Osaka Univ.) ○MATSUMARU, Takanori; SAITO, Ryota; FURUKAWA, Atsushi; YAMASAKI, Sho; MAENAKA, Katsumi; FUJIMOTO, Yukari

2F6-09^{*} SAR Analysis of Anti-angiogenic Butenolide from Marine Fungus by Using Stereoisomers (Sch. Pharm., Iwate Med. Univ.; Sch. Pharm., Osaka Univ.) ○TAMURA, Satoru; YOSHIDA, Yuki; ARAI, Masayoshi; NAKAMURA, Yuka; HIROTA, Yui; FUJIWARA, Reina; KOBAYASHI, Motomasa; KAWANO, Tomikazu

2F6-11[#] High-throughput screening and derivatization of α 1,6-fucosyltransferase (FUT8) inhibitors (Grad. Sch. Sci., Osaka Univ.) ○TAKEBE, Tomoyuki; MANABE, Yoshiyuki; KASAHARA, Satomi; YANG, Xiaoxiao; TAKAMATSU, Shinji; MIYOSHI, Eiji; KABAYAMA, Kazuya; FUKASE, Koichi

2F6-13 Discover of synthetic molecules to promote acquisition of fertilizing ability for pollen tubes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, Nagoya Univ.; Coll. Biosci. Biotechnol., Chubu Univ.; RIKEN CSRS) ○UEDA, Ayaka; TOKITA-MATSUURA, Kumi; KITANO, Hiroyuki; SUZUKI, Takamasha; NAKANO, Takeshi; ITO, Hidero; SATO, Ayato; HIGASHIYAMA, Tetsuya; ITAMI, Kenichiro

Chair: MATSUMARU, Takanori (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F6-15, 2F6-16, 2F6-17, 2F6-18, 2F6-19)

2F6-15 Development of new stapled peptide for inhibition of plant hormone-responsive transcription factor (Grad. Sch. Sci., Tohoku Univ.) ○SUZUKI, Kaho; KANAYAMA, Daiki; TAKAOKA, Yousuke; UEDA, Minoru

2F6-16 Development of ligand binding assay system for gibberellin receptor by using FRET system (Sch. Sci., Tohoku Univ.) ○KOZAKI, Wataru; TAKAOKA, Yousuke; KATO, Nobuki; UEDA, Minoru

2F6-17 Synthesis and bioactivity evaluation in model plants of cyclized plant hormone JA-Ile-lactone analogs (Grad. Sch. Sci., Tohoku Univ.) ○SAITO, Rina; YAMAGAMI, Sohei; MIYAGAWA, Saki; KATO, Nobuki;

ISHIMARU, Yasuhiro; TAKAOKA, Yousuke; UEDA, Minoru

2F6-18 Glycolipid GM3 as endogenous ligands of TLR4-MD-2 (Grad. Sch. Sci., Osaka Univ.) ○FUJII, Mayu; KABAYAMA, Kazuya; SHIMOYAMA, Atsushi; KANO, Hirokazu; INOKUCHI, Jin-ichi; OHTO, Umeharu; SHIMIZU, Toshiyuki; FUKASE, Koichi

2F6-19[#] Chemical probe-based analysis of OSBP paralog selectivity of antitumor saponin OSW-1 (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KOMATSU, Rina; ISOGAI, Naho; SAKURAI, Kaori

Sunday, March 17, PM

Chair: INUKI, Shinsuke (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F6-28, 2F6-29, 2F6-30, 2F6-31, 2F6-33)

2F6-28 Polymeric ligand-directed chemistry (1) : Labeling reagent design and reactivity evaluation (Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○TAKU, Kanaya; SHOGO, Torigoe; RYOU, Kubota; ITARU, Hamachi

2F6-29 Polymer-tethered Ligand Directed Chemistry(1): Chemical modification of proteins in vivo (Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○TORIOGOE, Shogo; KANAYA, Taku; KUBOTA, Ryou; HAMACHI, Itaru

2F6-30 Analysis of reaction activation mechanism of β -chlorofluoroethylamine (CFE) and its application to protein labeling (Grad. Sch. Pharm., Kyushu Univ.) ○SATO, Mami; SHINDO, Naoya; OJIDA, Akio

2F6-31[#] Proximity-dependent labeling on ruthenium photocatalyst-functionalized affinity beads (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) ○TSUSHIMA, Michihiko; SATO, Shinichi; NAKAMURA, Hiroyuki

2F6-33 Development of site-selective labeling of antibody using ruthenium photocatalyst-functionalized affinity beads (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) ○NAKANE, Keita; TSUSHIMA, Michihiko; SATO, Shinichi; NAKAMURA, Hiroyuki

Chair: KUBOTA, Ryou (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2F6-35, 2F6-36, 2F6-37, 2F6-38, 2F6-39, 2F6-40)

2F6-35 Design, Synthesis and Biological Evaluation of H₂O₂ Activatable Photosensitizer based on the Aromatic Ring Moiety of Neocarzinostatin Chromophore (Fac. Sci. Tech., Keio Univ.) ○KITAMURA, Takashi; SHIROSHITA, Saori; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

2F6-36 Photodegradation of Influenza Virus Hemagglutinin and Inhibitory Activity toward Influenza Virus Infection by Anthraquinone-Sialic Acid Hybrids (Fac. Sci. Tech., Keio Univ.) ○HORIKAWA, Ryota; MATSUMBARA, Teruhiko; SATO, Toshinori; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

2F6-37 Tryptophan-Linked Homogeneous Antibody-Drug Conjugate (Grad. Sch. Pharm., The Univ. of Tokyo) ○MARUYAMA, Katsuya; ISHIOYAMA, Takashi; KAWAMURA, Atsushi; SAIKI, Kuniko; KOBAYASHI, Yuki; SEKI, Yohei; IGUCHI, Keita; MITSUDA, Masaru; OISAKI, Kounosuke; KANAI, Motomu

2F6-38 Development of dual modified albumin with cyclic RGD peptide and *cis*-1,2-dodecaborates as an active tumor targeting boron agent for neutron capture therapy (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) ○KAWAI, Kazuki; SATO, Shinichi; NAKAMURA, Hiroyuki

2F6-39 CDR-selective antibody functionalization using tyrosine chemical labeling (Lab. Chem. Life Sci., Tokyo Tech.) ○SATO, Shinichi; MATSUMURA, Masaki; NAKAMURA, Hiroyuki

2F6-40 Design, Synthesis and biological evaluation of novel NAMPT inhibitors with dicarborane. (Lab. Chem. Life Sci., Tokyo Tech.) ○ASAWA, Yasunobu; YOSHIMORI, Atsushi; NAKAMURA, Hiroyuki

Chair: SATO, Shinichi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2F6-42, 2F6-43, 2F6-44, 2F6-45, 2F6-46)

2F6-42 Selective Induction of Cancer Cell Death through Complement-Dependent Cytotoxicity by Cell Surface Glycoengineering (Fac. Sci. Tech., Keio Univ.) ○YOSHIKAMI, Shingo; SHIMURA, Takumi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

2F6-43 Fabrication of SN-38 regioisomers drug nanoparticles and evaluation on its hydrolysis susceptibility (IMRAM, Tohoku Univ.) ○TANITA, Keita; KOSEKI, Yoshitaka; KASAI, Hitoshi

2F6-44 Fabrication and evaluation of cell membrane-coated SN-38 nano-prodrugs (IMRAM, Tohoku Univ.) ○YMAUCHI, Keitaro; KOSEKI, Yoshitaka; KASAI, Hitoshi

2F6-45 Desilylation reaction catalyzed by trifluoroborate and its application to organocatalyst-conjugated biomolecule (Bio. Syn. Chem. Lab., RIKEN CPR; GlycoTargeting Res. Lab., RIKEN BZP) ○FUJIKI, Katsumasa; TANAKA, Katsunori

2F6-46[#] Inhibition of Tumor Metastasis and Proliferation by in vivo Metal Catalyzed Reaction (RIKEN, CPR Biofunctional Synthetic Chemistry Lab.; Grad. Sch. Advanced Sci. Eng., Waseda Univ.; A. Butlerov Inst. of Chem., Kazan Federal Univ.; RIKEN, BZP GlycoTargeting Research Lab.) ○TSUBOKURA, Kazuki; VONG, Kenward; AHMADI, Peni; NAKAO, Yoichi; TANAKA, Katsunori

Monday, March 18, PM

Chair: KOWADA, Toshiyuki (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(3F6-25, 3F6-26, 3F6-27, 3F6-28, 3F6-29)
- 3F6-25** Development of a novel strain-release warhead for irreversible inhibitors. (Grad. Sch. Pharm., Kyushu Univ.) ○TOKUNAGA, Keisuke; SHINDO, Naoya; OJIDA, Akio
- 3F6-26** Development of third generation type EGFR covalent inhibitors using CFA chemistry (Grad. Sch. Pharm., Kyushu Univ.) ○XIAOLIN, Guo; NAOYA, Sindo
- 3F6-27** Toward expeditious development of photoaffinity probes by click reactions of azido-substituted aryltrifluoromethyl diazirines (RIKEN BDR; IBB, Tokyo Med. and Dental Univ.) ○WATANABE, Kenji; TSUDA, Junpei; OCHIAI, Hidenori; NIWA, Takashi; HOSOYA, Takamitsu
- 3F6-28** The development of a multi-functional probe which site-specifically bridges between two cysteine residues in proteins (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○HIGASHI, Sayaka; KIKUMA, Takashi; TAKEDA, Yoichi
- 3F6-29**** Selective chemical protein modification with nickel(II) and arylboronic acid (Fac. Pharm., Keio Univ.) ○HANAYA, Kengo; OHATA, Jun; MILLER, Mary K.; MANGUBAT-MEDINA, Alicia E.; BALL, Zachary T.

Chair: SHINDO, Naoya (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(3F6-32, 3F6-33, 3F6-34, 3F6-35, 3F6-36)
- 3F6-32** Controlled enantiodifferentiating photocyclodimerization of 2-anthracenecarboxylic acid mediated by chaperonin (Grad. Sch. Eng., KAIT; IMRAM, Tohoku Univ.) ○KOBAYASHI, Kota; NISHIJIMA, Masaki; ARAKI, Yasuyuki; WADA, Takehiko; KOIKE, Ayumi
- 3F6-33** Development of methotrexate derivatives for reversible photo-control of binding to protein (IMRAM, Tohoku Univ.) ○MASHITA, Takato; KOWADA, Toshiyuki; TAKAHASHI, Hiroto; MATSUI, Toshitaka; MIZUKAMI, Shin
- 3F6-34** Design and synthesis of caged RyR antagonists with cell targeting ability (Fac. Sci., Toho Univ.) ○YOKOYAMA, Aika; FURUTA, Toshiaki
- 3F6-35** Photo-regulation of protein dimerization using protein labeling system (IMRAM, Tohoku Univ.) ○KOWADA, Toshiyuki; ARAI, Keisuke; YOSHIMURA, Akimasa; MATSUI, Toshitaka; KIKUCHI, Kazuya; MIZUKAMI, Shin
- 3F6-36**** Noncovalently Caged Proteins with Molecular Glues (Grad. Sch. Eng., The Univ. of Tokyo) ○MOGAKI, Rina; OKURO, Kou; AIDA, Takuzo

Chair: TAKAOKA, Yosuke (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(3F6-39, 3F6-40, 3F6-41, 3F6-42, 3F6-43)
- 3F6-39[#]** Development of Anionic pH-Responsive Cyanine Dyes as Photo-acoustic Sensors (Grad. Sch. Eng., Kyoto Univ.) ○MU, Huiying; TANAKA, Kouki; OE, Masahiro; MIKI, Koji; OHE, Kouichi
- 3F6-40[#]** Synthesis of Cyanine Dyes with Fluorescence Intensity Enhanced by Formation of Cyclic Structure and Their Application as Enzyme Sensors (Grad. Sch. Eng., Kyoto Univ.) ○OE, Masahiro; MU, Huiying; MIKI, Koji; OHE, Kouichi
- 3F6-41** Stimuli-responsive Fluorescent Probe Based on 3,3'-Dihydroxy-2,2'-bipyridyl (Grad. Sch. Eng., Kyoto Univ.) ○TOKUNAGA, Daisuke; OE, Masahiro; MIKI, Koji; OHE, Kouichi
- 3F6-42** Development of Photoswitchable Inhibitors for Mitotic Kinesin CENP-E (RIES, Hokkaido Univ.) ○MATSUO, Kazuya; MAFY, Noushaba; HIRUMA, Shota; UEHARA, Ryota; TAMAOKI, Nobuyuki
- 3F6-43**** Dynamic Photocontrol of CENP-E and Chromosome Movements During Cell Division (RIES, Hokkaido Univ.) ○MAFY, Noushaba; MATSUO, Kazuya; HIRUMA, Shota; UEHARA, Ryota; TAMAOKI, Nobuyuki

Chair: MIKI, Koji (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(3F6-46, 3F6-47, 3F6-48, 3F6-49, 3F6-50)
- 3F6-46** Development of potent acyl CoA-activating chemical catalysts through structure activity relationship studies (Grad. Sch. Pharm., The Univ. of Tokyo) ○FURUTA, Masahiro; YAMATSUGU, Kenzo; XI, Siqi; AMAMOTO, Yoshifumi; LIU, Jiaan; KAWASHIMA, Shigehiro; KANAI, Motomu
- 3F6-47** Synthesis of Aβ [18F] PET tracers composed of a styrylpyridine possessing a neopentyl-type labelling unit. (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SONG, Ruichong; TAGO, Tetsuro; FUJIMAKI, Ryo; TATSUTA, Maho; TOYOHARA, Jyun; HIRANO, Kenichi; IWAI, Kumiko; ISHIBASHI, Kenji; TANAKA, Hiroshi
- 3F6-48[#]** Orientation preferences of hairpin pyrrole-imidazole polyamides toward the ³CpG site (Fac. Sci., Kyoto Univ.) ○SATO, Shinsuke; ASAMITSU, Sefan; BANDO, Toshikazu; SUGIYAMA, Hiroshi
- 3F6-49** Synthesis and evaluation of cyclic Pyrrole-Imidazole Polyamides (Fac. Sci., Kyoto Univ.) ○HIROSE, Yuki; ASAMITSU, Sefan; HASHIYA, Kaori; BANDO, Toshikazu; SUGIYAMA, Hiroshi

- 3F6-50**** Design and synthesis of nosyl type diazirines in photoaffinity labelling towards the elucidation of protein-ligand binding mode (Grad. Sch. Life Sci., Hokkaido Univ.) ○SAAIDIN, Aimi Suhaily; MURAI, Yuta; MONDE, Kenji

Chair: TANAKA, Hiroshi (17 : 40~18 : 30)

- * 17:30-17:40: interval for laptop PC connection.(3F6-53, 3F6-54, 3F6-55, 3F6-56, 3F6-57)
- 3F6-53** Discovery of novel KDM5 selective inhibitors and their effect on cancer cells (Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med.; Nippon Pharmaceutical Chemicals Co., Ltd.) ○MIYAKE, Yuka; ITOH, Yukihiro; HATANAKA, Atsushi; SUZUMA, Yoshinori; SUZUKI, Miki; KODAMA, Hidehiko; ARAI, Yoshinobu; SUZUKI, Takayoshi
- 3F6-54[#]** Synthesis and fluorescence properties of GFP dye derivatives, benzylidene imidazolinone derivatives (Sch. Life Sci. Tech., Tokyo Tech.) ○KANAMORI, Takashi; TSUZUKI, Takayuki; YUASA, Hideya
- 3F6-55[#]** First Chaperonin GroEL Cluster Immobilized on Gold Nanoparticles as Functional Materials (Fac. Eng., The Univ. of Tokyo) ○SHEN, Hao; P. K. Hashim; AIDA, Takuzo
- 3F6-56** Syntheses of fatty acid-zerumbone conjugates and elucidation of the mechanisms for their growth inhibition of human T-cell lymphoid Jurkat cells (Fac. Agr., Kindai Univ.) ○FUJIWARA, Yuku; KASHIWAZAKI, Gengo; UTAKA, Yoshimi; ITOH, Tomohiro; KITAYAMA, Takashi
- 3F6-57** Development of novel chemical tools for analysis of mode of action of plant virulence factor coronatine (Grad. Sch. Sci., Tohoku Univ.) ○MIYAGAWA, Saki; HAYASHI, Kengo; ISHIMARU, Yasuhiro; TAKAOKA, Yousuke; UEDA, Minoru

Tuesday, March 19, AM

Chair: OHKANDA, Junko (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F6-01, 4F6-02, 4F6-03, 4F6-04, 4F6-05, 4F6-06)
- 4F6-01** The Fluorescent Imaging of Ethylene in Plants via in vivo Olefin Metathesis (CPR Biofunctional Synthetic Chemistry Lab., RIKEN; BZP GlycoTargeting Research Lab., RIKEN; RIKEN CSRS; Biofunctional Chemistry Lab., A. Butlerov Inst., KFU) ○EDA, Shohei; KADOTA, Yasuhiro; SHIRASU, Ken; TANAKA, Katsunori
- 4F6-02** Abscisic acid mediated predator recognition of psyllium seeds (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○TAKEKAWA, Masatsugu; YAMAWO, Akira; MUKAI, Hiromi; SAWA, Shinichiro; ISHIKAWA, Hayato
- 4F6-03** Development of synthetic cytokinin-artificial receptor pair toward precise regulation of cytokinin signaling (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; CSRS, RIKEN; PRESTO, JST) ○YAMADA, Ryotaro; SARAH, Letitia; UCHIDA, Naoyuki; TORII, Keiko; ITAMI, Kenichiro; HAGIHARA, Shinya
- 4F6-04** Structure Activity Relationship Study of Novel Plant Growth Regulator (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○KATO, Rika; MURAO, Mizuki; TORII, Keiko; ITAMI, Kenichiro; UCHIDA, Naoyuki; HAGIHARA, Shinya
- 4F6-05** Ligand-binding Position Analysis with Ligand-dissociation-type Pyrene Probes (Grad. Sch. Bioagr. Sci., Nagoya Univ.; PRESTO, JST; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ARAI, Atsushi; HATTORI, Atsunori; WATANABE, Rei; HU, Yaping; IIO, Keita; YONEDA, Koza; KIGOSHI, Hideo; KITA, Masaki
- 4F6-06[#]** Anti-inflammation and adipogenesis inhibition functions of stylissatin A (Grad. Sch. Bioagr. Sci., Nagoya Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; School of Integrative and Global Majors, Univ. of Tsukuba; IRC3, AIST; Grad. Sch. Life and Env. Sci., Univ. of Tsukuba) ○SUN, Yiting; ZHANG, Menghua; SUNABA, Taiki; SHIBATA, Takahiro; SASAKI, Kazunori; ISODA, Hiroko; KIGOSHI, Hideo; KITA, Masaki

Chair: HAGIHARA, Shinya (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4F6-08, 4F6-09, 4F6-10, 4F6-11, 4F6-12)
- 4F6-08** Click reaction for intracellular synthesis of fusicoccin-based mid-sized agents (Fac. Agr., Shinshu Univ.) ○MASUDA, Ryoma; KAWASAKI, Yuuya; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; FUJII, Hiroshi; KATO, Nobuo; OHKANDA, Junko
- 4F6-09** Exploration of synthetic molecules that inhibit intrinsically disordered circadian transcription factors (Fac. Agr., Shinshu Univ.) ○HOSOYA, Yusuke; IMANISHI, Miki; OHKANDA, Junko
- 4F6-10** Construction of pharmacophore structure of marine natural product containing a spiroimine ring and evaluation of the inhibitory activity against a nicotinic acetylcholine receptor (Sch. Sci., Osaka Univ.) ○MINAMINO, Kou; TSUCHIKAWA, Hiroshi; MURATA, Michio; KONOKI, Keiichi
- 4F6-11** Structure-Activity Relationship Study of Vincemycin A₁ (Fac. Sci. Tech., Keio Univ.) ○MATSUMOTO, Yuka; FUNAKOSHI, Momoko; KANNO, Yuku; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
- 4F6-12** Study on the mode of action of the cell-growth inhibitory activity induced by Jahanyne family. (Grad. Sch. Sci. Tech., Keio Univ.) ○HOSHINA, Shizuka; IWASAKI, Arihiro; KUDOU, Takahumi; TERUYA, Toshiaki; SUENAGA, Kiyotake

Chair: KITA, Masaki (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(4F6-14, 4F6-15, 4F6-16, 4F6-17, 4F6-18, 4F6-19)

4F6-14[#] *In vivo* kinetics of functionalized albumin in mouse (Biofunc. Syn. Chem. Lab., RIKEN CPR; GlycoTargeting Research Lab., RIKEN BZP; Biofunc. Chem. Lab., A. Butlerov Inst., Kazan Federal Univ.) ○AHMADI, Peni; EGAWA, Yasuko; TANAKA, Katsunori**4F6-15[#]** Towards *in vivo* gold (III)-catalyzed chemical glycosylation via intramolecular aglycone delivery (Biofunc. Syn. Chem. Lab., RIKEN) ○CHANG, Tsung-che; TANAKA, Katsunori**4F6-16[#]** *In Vivo* Prodrug Activation Using Au(III)-catalyzed Hydroamination (Biofunc. Syn. Chem. Lab., RIKEN) ○LIN, Yixuan; VONG, Kenward; CHANG, Tsung-che; TANAKA, Katsunori**4F6-17[#]** Synthesis of paramagnetic-tagged Lewis X oligosaccharides for their NMR interaction analyses (Sch. Mat. Sci., JAIST) ○XU, Qiang; HORI, Yoshiaki; YAMAGUCHI, Takumi**4F6-18** Acquisition of keep-on fluorescent molecule from combinatorial library (Sci. Eng., The Univ. of Electro-Communications) ○OYAMA, Makoto; TAKI, Masumi**4F6-19** Synthesis and function of TLR4/MD-2 ligands that synergistically regulate receptor function (Grad. Sch. Sci., Osaka Univ.) ○MATSUURA, Yoshifumi; SHIMOYAMA, Atsushi; FUKASE, Koichi

Room F7

Bldg. 3 357

Natural Products Chemistry

Saturday, March 16, AM

Fatty Acid Related Compounds and Polyphenols

Chair: TAKAHASHI, Shunya (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1F7-08, 1F7-09, 1F7-10, 1F7-12, 1F7-13)

1F7-08 Synthesis of the cyclohexene segment of portimine (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Graduate School of Engineering Science, Akita University) ○SAITO, Takafumi; FUJIWARA, Kenshu; KONDO, Yoshihiko; AKIBA, Uichi; SUZUKI, Takanori**1F7-09** Total Synthesis of Selaginellin S, An Aromatic Natural Product from *Selaginella moellendorffii* (Akita Univ., Grad. Sch. of Eng. Sci.) FUJIWARA, Kenshu; ○ITAGAKI, Takaya; KONDO, Yoshihiko; AKIBA, Uichi**1F7-10^{*}** Total Synthesis of a Candidusin Congener Based on [2+2+2] Cycloaddition (Akita Univ., Grad. Sch. of Eng. Sci.) ○SATO, Daisuke; KONDO, Yoshihiko; AKIBA, Uichi; FUJIWARA, Kenshu**1F7-12** Synthetic Studies on FE399 and PM181110 by the MNBA-Mediated Dehydration Condensations (1) (Fac. Sci., TUS) TONOI, Takayuki; IKEDA, Miyuki; ○AKUTSU, Miku; KAWAHARA, Ryo; SATO, Teruyuki; SHIINA, Isamu**1F7-13** Synthetic Studies on FE399 and PM181110 by the MNBA-Mediated Dehydration Condensations (2) (Fac. Sci., TUS) TONOI, Takayuki; ○IKEDA, Miyuki; KAWAHARA, Ryo; SATO, Teruyuki; SHIINA, Isamu

Chair: SAIKAWA, Yoko (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1F7-15, 1F7-16, 1F7-17, 1F7-18)

1F7-15 Structure-activity relationships study of meshimakobnol and its analogues, cytotoxic polyphenols (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○MITSUGI, Keisuke; HIGUMA, Tatsuya; ICHIMURA, Fumitaka; YOSHIDA, Masahito; OHYOSHI, Takayuki; KIGOSHI, Hideo**1F7-16** Stereochemical Studies of Flexible Lipids and Their Fluorinated Analogues Using Vibrational Circular Dichroism (Grad. Fac. Life Sci., Hokkaido Univ.) ○TANIGUCHI, Tohru; FAJRY, Mauleed; KITAHARA, Takuya; DAVIDSON, Agbo; MONDE, Kenji**1F7-17** Synthesis studies on Clostrienose (RIKEN CSRS; Dept. of Sci. Tech., Meiji Univ.) ○HAMA, Takenori; KOSHINO, Hiroyuki; OGAWA, Narihito; TAKAHASHI, Shunya**1F7-18** Young Scholar Lectures of CSJ Total Syntheses of Natural Naphthoquinone Dimers with Various Bonding Styles (Sch. Sci., Tokyo Tech.) ○ANDO, Yoshio

Saturday, March 16, PM

Chair: MATSUMOTO, Takashi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1F7-28, 1F7-29, 1F7-30, 1F7-32)

1F7-28[#] Wychimicins, a new spirotreronate-class polyketide from an *Actinocrisum wychmicini* MI503-AF4 (Microbial Chemistry Research Foundation) ○KIMURA, Tomoyuki; KUBOTA, Yumiko; HAYASHI,

Chigusa; UMEKITA, Maya; KINOSHITA, Naoko; HATANO, Kazuki; SAWA, Ryuichi; IGARASHI, Masayuki; SHIBASAKI, Masakatsu

1F7-29 Synthetic Studies on β -Naphthocyclinone (1) : Preparation of an Acceptor Unit (Sch. Sci., Tokyo Tech.) ○TANAKA, Nozomi; MATURI, Mark; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke**1F7-30[#]** Synthetic Studies on β -Naphthocyclinone (2): Design, Preparation and Reactivity of a Donor Unit (Sch. Sci., Tokyo Tech.) ○MATURI, Mark; MARCELLO; TANAKA, Nozomi; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke**1F7-32[#]** Synthesis of novel ¹³C, ²H-labeled Amphotericin B and the conformational analysis of glycosidic linkage in lipid bilayers (Grad. Sch. Sci., Osaka Univ.) ○YAMAMOTO, Tomoya; UMEGAWA, Yuichi; SUZUKI, Taiga; TSUCHIKAWA, Hiroshi; HANASHIMA, Shinya; MURATA, Michio; MATSUMORI, Nobuaki; SEO, Sangjae; FUNAHASHI, Kosuke; SHINODA, Wataru

Chair: ANDO, Yoshio (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1F7-35, 1F7-37, 1F7-38, 1F7-39, 1F7-40)

1F7-35^{*} Green Three-comp. Coupling for PG Synthesis and Application to the Intermediate for Syntheses of TICs with Neuro-protective Activities (Fac. Eng., Gifu Univ.; National Center for Geriatrics and Gerontology) ○KOYAMA, Hiroko; IZUMISEKI, Atuto; SUZUKI, Masaaki**1F7-37** Synthetic study of naturally occurring *gem*-bis(prenyl)xanthenes (Sch. Pharm., TUPLS) ○KOBAYASHI, Ryouma; WATABE, Yu; FUJIMOTO, Yuuki; MATSUMOTO, Takashi**1F7-38** A study on regiochemistry of aromatic oxy-Cope rearrangement (Sch. Pharm., TUPLS) ○FUJIMOTO, Yuuki; KOBAYASHI, Ryouma; WATABE, Yu; MATSUMOTO, Takashi**1F7-39** Asymmetric Total Synthesis of (+)-Coprophanol and Its Derivatives by the Mukaiyama Aldol Reaction and a Stereoselective Intramolecular Diels-Alder Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○TATEYAMA, Satoru; MURATA, Takatsugu; SUZUKI, Kyohei; TONOI, Takayuki**1F7-40** Synthetic Studies on AMF-14 and Its Derivatives by the Mukaiyama Aldol Reaction and a Stereoselective Intramolecular Diels-Alder Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○HIRAGATA, Daiki; MAEKAWA, Yutarou; YONEKURA, Keita; SUZUKI, Kyohei; MURATA, Takatsugu

Chair: TSUCHIKAWA, Hiroshi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1F7-42, 1F7-43, 1F7-44, 1F7-45, 1F7-46, 1F7-47)

1F7-42 Synthetic study towards blennolides A and B (Grad. Sch. Biomed. Sci., Hiroshima Univ.) ○NISHIO, Takuya; NAKAUE, Tsubasa; NAKAJIMA, Ryo; KUMAMOTO, Takuya**1F7-43** Search for marine natural products from small fragment mixtures of deep sea organisms (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAMURA, Fumiaki; NAKAO, Yoichi**1F7-44** Synthetic study of scytophycins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○OHYOSHI, Takayuki; MIYAZAKI, Yuto; NOGUCHI, Tomonari; NAMIKI, Mayu; KIGOSHI, Hideo**1F7-45** Ruthenium-catalyzed intramolecular double hydrofunctionalization of internal alkenes (Fac. Sci. Eng., Chuo Univ.) ○HIO, Kei; NISHIMURA, Kazuma; SACHIMORI, Shusuke; WATANABE, Tomomi; FUWA, Haruhiko**1F7-46** Synthetic Studies on Tanzawaic Acid Q Derivatives by the Mukaiyama Aldol Reaction and a Stereoselective Intramolecular Diels-Alder Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○MAEKAWA, Yutarou; SUZUKI, Kyohei; MURATA, Takatsugu**1F7-47** Synthetic Studies on 2'-Demethylanzawaic Acid B Derivatives by the Mukaiyama Aldol Reaction and a Stereoselective Intramolecular Diels-Alder Reaction (Fac. Sci., TUS) SHIINA, Isamu; ○ITO, Keiichi; MURATA, Takatsugu

Chair: OHYOSHI, Takayuki (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1F7-49, 1F7-51, 1F7-52, 1F7-53, 1F7-54)

1F7-49[#] New Protocol and Rationalization of the Stereo- and Chemoselective Synthesis of the Steroid Frameworks by the Intermolecular Diels-Alder Reaction (Fac. Sci., TUS) ○MURATA, Takatsugu; PETER, Clovis; GEOFFROY, Philippe; TONOI, Takayuki; SHIINA, Isamu; MIESCH, Michel**1F7-51** Asymmetric Total Synthesis of 8 Stereoisomers of Eushearilide and Studies on Structure-Activity Relationships (Fac. Sci., TUS) ○TONOI, Takayuki; INOHANA, Takehiko; SATO, Teruyuki; YOSHIDA, Tomoki; ISHIWADA, Naruhiko; KAMEI, Katsuhiko; SHIINA, Isamu**1F7-52** Preparation of Macrolactams from ω -Aminocarboxylic Acids Using 2-Methyl-6-nitrobenzoic Anhydride with Nucleophilic Catalysts (Fac. Sci., TUS) SHIINA, Isamu; ○NODA, Yuuki; TONOI, Takayuki**1F7-53** Synthetic Study of Coralopyronin A (Fac. Sci. Tech., Keio Univ.) ○NAGASHIMA, Yoshiyuki; OKADA, Yuto; SATO, Takaaki; CHIDA, Noritaka**1F7-54** A Computational Study on Intramolecular Coupling of Tethered Catechins (Fac. Eng., Toyama Pref. Univ.) ○FUKAYA, Keisuke; SAITO, Akiko; NAKAJIMA, Noriyuki; URABE, Daisuke

Sunday, March 17, AM

Chair: TORIKAI, Kohei (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F7-01, 2F7-02, 2F7-03, 2F7-04, 2F7-05, 2F7-06)

- 2F7-01** Isolation and structural analyses of the polyol compounds amdigenol D produced by the marine dinoflagellate *Amphidinium* sp. (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○MATSUDA, Miki; INUZUKA, Toshiyasu; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa; UEMURA, Daisuke
- 2F7-02** Exploration of selective cytotoxic molecules under nutrient starvation conditions from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○NAGAYA, Yuki; MUKOUHATA, Issei; MATSUNO, Kenji; OHNO, Osamu
- 2F7-03** Enantio-divergent total synthesis of spiroxin A (Sch. Sci., Tokyo Tech.) ○TANAKA, Daisuke; SAKAI, Ryota; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 2F7-04** Studies on Synthesis of Antitumor Antibiotic Saptomycin H (Sch. Sci., Tokyo Tech.) ○SHIMURA, Jun; ANDO, Yoshio; SUZUKI, Keisuke
- 2F7-05** The synthetic studies of CDE ring of Yessotoxin (Grad. Sch. Sci. Eng., Univ. of Toyama) ○YOKOYAMA, Hajime; TAKAMI, Masahiro; MIYAZAWA, Masahiro
- 2F7-06** Synthetic Study of Arenicolide A (Sch. Adv. Eng., Kogakuin Univ.) ○KAWANO, Yoshinori; NAGUMO, Shinji; YASUI, Eiko

Chair: MIYAZAWA, Masahiro (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F7-08, 2F7-10, 2F7-11, 2F7-12, 2F7-13)

- 2F7-08[#]** Total synthesis of (+)-Procyanidin A₁ and (+)-Procyanidin A₂: A-type Oligomeric Proanthocyanidin Natural Products (Sch. Sci., Tokyo Tech.) ○BETKEKAR, Vipul; OHMORI, Ken; SUZUKI, Keisuke
- 2F7-10** Synthetic Study of the RS Ring System of Brevisulcalen-F (Grad. Sch. Sci., Kyushu Univ.) ○ARAI, Tomoyuki; TORIKAI, Kohei; EBINE, Makoto; SATAKE, Masayuki; OISHI, Tohru
- 2F7-11[#]** Synthetic Study of the VWX Ring System of Brevisulcalen-F (Fac. Sci., Kyushu Univ.) TANAKA, Tatsuya; TORIKAI, Kohei; EBINE, Makoto; SATAKE, Masayuki; OISHI, Tohru
- 2F7-12** synthetic study on tomuruline (Fac. Sci. Tech., Keio Univ.) ○FUJIMURA, Haruka; KUDO, Chihiro; OHNO, Osamu; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 2F7-13** Stereocontrolled Total Syntheses of Isolaurenidificin and Bromlaurenidificin: Prediction of the Absolute Configuration of Natural Products (Fac. Eng., OIT) ○YONEYAMA, Ryo; HORI, Yutaka; MASUYAMA, Araki; KOBAYASHI, Shoji

Chair: FUKASE, Koichi (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F7-15)

- 2F7-15[#]** CSJ Award for Creative Works Structure Determination, Chemical Synthesis, and Evaluation of Biological Activity of Super Carbon Chain Natural Products (Fac. Sci., Kyushu Univ.) ○OISHI, Tohru

Sunday, March 17, PM

Amino Acid, Peptide

Chair: SHINADA, Tetsuro (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2F7-28, 2F7-30, 2F7-31)

- 2F7-28[#]** Cysteinyl Propyl Imides as Thioester Precursors for Total Chemical Protein Synthesis (Grad. Sch. Eng., The Univ. of Tokyo) ○YANASE, Masafumi; CARDOS, Charlane; NAKATSU, Koki; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 2F7-30** Synthetic study of domoic acid (Univ. of Shizuoka) ○NISHIZAWA, Shigeru; ONISHI, Takuma; OYAGI, Yu; SAKAI, Shingo; SUZUKI, Hiroto; OUCHI, Hitoshi; INAI, Makoto; ASAKAWA, Tomohiro; YOSHIMURA, Fumihiko; KAN, Toshiyuki
- 2F7-31[#]** Young Scholar Lectures of CSJ Total Synthesis and Biological Evaluation of Biologically Active Natural Cyclopeptides Toward Elucidation of the Mode of Action (Fac. Pure Appl. Sci., Univ. of Tsukuba) ○YOSHIDA, Masahito

Chair: YOSHIDA, Masahito (14 : 40 ~ 15 : 30)

* 14:30-14:40: interval for laptop PC connection.(2F7-35, 2F7-36, 2F7-37, 2F7-38, 2F7-39)

- 2F7-35[#]** Stereochemistry of the β -Arginine Unit of SF-2132 (Grad. Sch. Sci., Osaka City Univ.) ○SEKIHARA, Ai; YASUNO, Yoko; SHINADA, Tetsuro
- 2F7-36[#]** Synthetic Study of Phomopsin A: Catalytic Asymmetric Synthesis of the Amino Acid Unit (Grad. Sch. Sci., Osaka City Univ.) ○YASUDA, Kohei; YASUNO, Yoko; SHINADA, Tetsuro
- 2F7-37[#]** Synthetic Study of Ustiloxin D by Using Isonitrile Aldol Reaction (Grad. Sch. Sci., Osaka City Univ.) ○FUKU, Kazuma; YASUNO, Yoko; SHINADA, Tetsuro
- 2F7-38** Isolation and structure determination of a new lipo-peptide from an Okinawan marine cyanobacterium. (Grad. Sch. Sci. Tech., Keio Univ.) ○IWASAKI, Keitaro; IWASAKI, Arihiro; SUMIMOTO, Simpei;

SUENAGA, Kiyotake

- 2F7-39** Isolation and Structure of Three New Peptides, Hoshinoamides C-E, Isolated from Marine Cyanobacteria (Fac. Sci. Tech., Keio Univ.) ○SHIOTA, Ikuma; IWASAKI, Arihiro; SUMIMOTO, Shimpei; SUENAGA, Kiyotake

Chair: MAKI, Yuta (15 : 40 ~ 16 : 30)

* 15:30-15:40: interval for laptop PC connection.(2F7-41, 2F7-42, 2F7-43, 2F7-44, 2F7-45)

- 2F7-41** Synthetic Studies and Determination of complete absolute stereo-structure of Marine Lipopeptide Minnamide A (Fac. Sci. Tech., Keio Univ.) ○KOBAYASHI, Masayuki; SATO, Rio; SUMIMOTO, Shimpei; SHINOMIYA, Seiichi; TERUYA, Toshiaki; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 2F7-42** Synthetic studied on the lipopeptide Minnamide A from the marine cyanobacterium (Fac. Sci. Tech., Keio Univ.) ○SATO, Rio; SUENAGA, Kiyotake; SUMIMOTO, Shinpei
- 2F7-43** The synthetic studies on artificial analogs of Janadolide to synthesize probe for identification of target protein. (Fac. Sci. Tech., Keio Univ.) ○OTOMO, Keisuke; OJIMA, Daisuke; OGAWA, Hideyoshi; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 2F7-44** Structure of new bioactive principle, sukumonin (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KAWAMATA, Chiari; INUZUKA, Toshiyasu; KAWATA, Yuki; UEMURA, Daisuke
- 2F7-45** Suzuki-Miyaura cross-coupling reaction of monohalopyridine and protected aspartic acid (Sci. Tec., Sophia Univ.) ○MIKAGI, Ayame; TOKAIRIN, Dai; USUKI, Toyonobu

Chair: USUKI, Toyonobu (16 : 40 ~ 17 : 30)

* 16:30-16:40: interval for laptop PC connection.(2F7-47, 2F7-48, 2F7-49, 2F7-50, 2F7-51)

- 2F7-47** Search for novel bioactive compounds in Okinawan marine cyanobacteria (Fac. Edu., Univ. of Ryukyus) ○OZAKI, Kaori; SEZAWA, Dai; FUJIMURA, Haruka; IWASAKI, Arihiro; SUENAGA, Kiyotake; TERUYA, Toshiaki
- 2F7-48** Chemical synthesis of enantiomer of fucose-binding lectin PhoSL (Fac. Sci., Kochi Univ.) ○HASHIMOTO, Keigo; IZUMI, Masayuki
- 2F7-49** New synthetic method of glycopeptides by using glycosyl amino-thioacid (Grad. Sch. Sci., Osaka Univ.) ○NOMURA, Kota; OKAMOTO, Ryo; MAKI, Yuta; KAJIHARA, Yasuhiro
- 2F7-50** Solid-phase synthesis of glyco-peptide under microwave irradiation (BRI, AIST) ○YOKOE, Takayuki; NAGASHIMA, Izuru; SHIMIZU, Hiroki
- 2F7-51** Cyanation reaction directed toward peptide functionalizations (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MIWA, Naoki; TANAKA, Chihiro; ISHIDA, Sho; NISHIKATA, Takashi

Asian International Symposium - Natural Products Chemistry, Chemical Biology / Biofunctional Chemistry and Biotechnology - Cosponsored by JSPS A3 Foresight Program, Asian Chemical Probe Research Hub

Monday, March 18, PM

(13 : 30 ~ 13 : 40)

- 3F7-28[#]** Opening Remarks / Closing Remarks Opening Remarks (Tohoku Univ.) ○Nagatsugi, Fumi (13:30~13:40)

Chair: Sando, Shinsuke (13 : 40 ~ 14 : 00)

- 3F7-29[#]** Invited Lecture Synthesis and biological potential of modified cyclic dinucleotides (Tokushima Univ.) ○Saito-Tarashima, Noriko (13:40 ~ 14:00)

Chair: Morii, Takashi (14 : 00 ~ 14 : 30)

- 3F7-31[#]** Keynote Lecture Chemical-assisted Sequencing of Epigenetic Nucleic Acid Modifications (Peking Univ.) ○Yi, Chengqi (14:00~14:30)

Chair: Kojima, Takahiko (14 : 30 ~ 14 : 50)

- 3F7-34[#]** Invited Lecture Development of fluorescent probes for monitoring labile Fe(II) ion in living cells (Gifu Pharmaceutical Univ.) ○Hirayama, Tasuku (14:30~14:50)

Chair: Ohkanda, Junko (14 : 50 ~ 15 : 20)

- 3F7-36[#]** Keynote Lecture Cell-based Phenomics Study using Chemical Probe For Discrimination of Influenza Virus Subtypes (Korea Inst. of Science & Technology) ○Lee, Jun-Seok (14:50~15:20)

Chair: Kikuchi, Kazuya (15 : 30 ~ 15 : 50)

- 3F7-40[#]** Invited Lecture AkaBLI: An all-engineered bioluminescence system for highly sensitive in vivo imaging (RIKEN) ○Iwano, Satoshi (15:30~15:50)

Chair: Ueda, Minoru (15 : 50 ~ 16 : 20)

- 3F7-42[#]** Keynote Lecture Chemical Profiling of Protein O-Glycosylation (Peking Univ.) ○Xing, Chen (15:50~16:20)

Room G1

Bldg. 3 361

Materials Chemistry

Saturday, March 16, AM

Low Dimensional Materials

Chair: YE, Jinhua (9 : 30 ~ 10 : 10)

* 9:20-9:30: interval for laptop PC connection.(1G1-04, 1G1-05, 1G1-06, 1G1-07)

1G1-04[#] Systematic evaluation of tetraalkylammonium salts on the synthesis and reactivity of titanate nanosheets (Kawasaki Med. Sch.) ○YOSHIOKA, Daisuke; NISHIMURA, Yasumitsu**1G1-05** Film formation of antimonene-fullerene nanohybrids and its photoelectrochemical properties (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○OHARA, Tomoya; UMEYAMA, Tomokazu; IMAHORI, Hiroshi**1G1-06** Synthesis of silver nanowires with high aspect ratio using novel copolymer capping agents. (Grad. Sch. of the Univ. of Shiga Pref.; IMRAM, Tohoku Univ.) ○TERADA, Kohei; CUYA, Jhon; MATSUMOTO, Takatoshi; IDA, Shohei; SUZUKI, Kazumasa; MIYAMURA, Hiroshi; BALACHANDRAN, Jayadevan**1G1-07** Development of Organic Pigment Particle Preparation Method in Gelatin Solution Using Atomizer (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○INOOKA, Shiori; TAKAHASHI, Yukiko

Chair: OMACHI, Haruka (10 : 20 ~ 11 : 10)

* 10:10-10:20: interval for laptop PC connection.(1G1-09, 1G1-10, 1G1-12)

1G1-09 Preparation of biocompatible suspension dispersing multifunctional (Co-Pt)@Au nanoparticles (Sch. Eng., The Univ. of Shiga Pref.) ○KATAGIRI, Mayu; CUYA, Jhon; SUZUKI, Kazumasa; MIYAMURA, Hiroshi; BALACHANDRAN, Jayadevan**1G1-10[#]** Salt-assisted chemical vapour deposition of 2D transition metal dichalcogenides (MANA, NIMS) ○LI, Shisheng; EDA, Goki**1G1-12[#]** Switching Interlayer Neutrality-Alkalinity for Reversible Exfoliation-Reassembly of Polymeric Carbon Nitride towards Efficient Photocatalysis (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; MANA, NIMS) ○LI, Yunxiang; OUYANG, Shuxin; YE, Jinhua

Chair: YOSHIOKA, Daisuke (11 : 20 ~ 12 : 00)

* 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-17)

1G1-15[#] Study the Growth of Pt/Cu Alloy Nanoparticles Prepared by Sputter Deposition onto a Liquid Polymer (Grad. Sch. Eng., Hokkaido Univ.) ○DENG, Lianlian; NGUYEN, Thanh Mai; YONEZAWA, Tetsu**1G1-17[#]** Metal nanoparticles prepared by vacuum sputtering onto liquid: influence of mixing two liquids (Fac. Eng., Hokkaido Univ.) ○NGUYEN, Mai Thanh; YONEZAWA, Tetsu

Saturday, March 16, PM

Carbon Materials

Chair: INOMATA, Tomohiko (14 : 20 ~ 15 : 20)

* 14:10-14:20: interval for laptop PC connection.(1G1-33, 1G1-36, 1G1-38)

1G1-33 Young Scholar Lectures of CSJ Template synthesis of novel one-dimensional nanomaterials using inner space of carbon nanotubes (RCMS, Nagoya Univ.) ○OMACHI, Haruka**1G1-36[#]** Millisecond imaging and analysis of chemical reactions by atomic-resolution electron microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIMIZU, Toshiki; STUCKNER, Joshua; LUNGERICH, Dominik; MURAYAMA, Mitsuhiko; HARANO, Koji; NAKAMURA, Eiichi**1G1-38** Controlled Synthesis of Graphene Nanoribbons in Metal Organic Frameworks (Fac. Eng., The Univ. of Tokyo) ○NAKATA, Kazuki; KITAO, Takashi; UEMURA, Takashi

Chair: UEMURA, Takashi (15 : 30 ~ 16 : 30)

* 15:20-15:30: interval for laptop PC connection.(1G1-40, 1G1-42, 1G1-43, 1G1-44, 1G1-45)

1G1-40^{*} Chemical dopants on edge of holey graphene accelerates electrochemical hydrogen evolution reaction (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○ITO, Yoshikazu; KUMATANI, Akichika; MIURA, Chiho; KURAMOCHI, Hirotaka; OHTO, Tatsuhiko; WAKISAKA, Mitsuru; NAGATA, Yuki; IDA, Hiroki; TAKAHASHI, Yasufumi; HU, Kailong; FUJITA, Jun-ichi; MATSUE, Tomokazu

Ionic Liquid

1G1-42 Electrochemical reactivity of metal complexes encapsulated in reaction field formed by size-controlled ionic liquid (Grad. Sch. Eng., Nagoya Inst. of

Chair: Chida, Noritaka (16 : 20 ~ 16 : 50)

3F7-45[#] Invited Lecture Synthesis and function study of glycoconjugate vaccine for efficient cancer immunotherapy (Osaka Univ.) ○Manabe, Yoshiyuki (16:20~16:50)

Chair: Oikawa, Hideaki (16 : 50 ~ 17 : 20)

3F7-48[#] Keynote Lecture Oxidative rearrangement steps in chartreusin biosynthesis (Nanjing Univ.) ○Ge, Hui Ming (16:50~17:20)

(17 : 20 ~ 17 : 30)

3F7-51[#] Opening Remarks / Closing Remarks Closing Remarks (Tohoku Univ.) ○Arimoto, Hirokazu (17:20~17:30)

Chemical Biology

Tuesday, March 19, AM

Chair: HANAOKA, Kenjiro (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(4F7-01, 4F7-02, 4F7-03, 4F7-05)

4F7-01 Photoacoustic Imaging of Reactive Oxygen Species (ROS) in Tumor with Near-Infrared Dye-Conjugated Phosphorylcholine Polymer Probes (Grad. Sch. Eng., Kyoto Univ.) ○MATSUI, Yuta; KOMAKI, Takanori; YAMADA, Hisatsugu; AOYAMA, Yasuhiro; KIMURA, Yu; KONDO, Teruyuki**4F7-02** Synthesis and Functional Evaluation of a Novel Phosphorylserine-Polymer Probe. (Grad. Sch. Eng., Kyoto Univ.) ○MURAKAMI, Tomohiro; YAMADA, Hisatsugu; IMAI, Hirohiko; AOYAMA, Yasuhiro; KIMURA, Yu**4F7-03[#]** Calcium-dependent fMRI using interaction of magnetic nanoparticles and synaptotagmin C2 domains (MIT; Health Research Inst., AIST; PRESTO, JST) ○OKADA, Satoshi; BARTELLE, Benjamin; LI, Nan; BRETON-PROVENCHER, Vincent; LEE, Jiyoung; RODRIGUEZ, Elisenda; MELICAN, James; SUR, Mriganka; JASANOFF, Alan**4F7-05^{*}** Fluorescence blinking controlled by redox reactions adaptable to structural analysis of nucleic acids (ISIR, Osaka Univ.) ○KAWAI, Kiyohiko; MIYATA, Takafumi; SHIMADA, Naohiko; MARUYAMA, Atsushi

Chair: MANABE, Yoshiyuki (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4F7-08, 4F7-10, 4F7-11, 4F7-13)

4F7-08[#] Coordination chemogenetics for allosteric activation of endogenous GPCR-type glutamate receptors (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○JIMA, Kento; KAKEGAWA, Wataru; MICHIBATA, Yukiko; KUBOTA, Ryuu; YUZAKI, Michisuke; ○KIYONAKA, Shigeki; HAMACHI, Itaru**4F7-10** Novel coordination chemogenetics for realizing allosteric INHIBITION of GPCR-type glutamate receptors. (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○MINO, Takeharu; OJIMA, Kento; KIYONAKA, Shigeki; HAMACHI, Itaru**4F7-11[#]** Chemical Characterization of DNA-alkylating PI Polyamides Targeting RUNX Transcription Factors (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MAEDA, Rina; SATO, Shinsuke; OBATA, Shunsuke; OHNO, Tomo; HASHIYA, Kaori; BANDO, Toshikazu; SUGIYAMA, Hiroshi**4F7-13** Analysis of Alkylating PI Polyamides Library by cytotoxicity (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OHNO, Tomo; IKEDA, Shuji; HASHIYA, Kaori; BANDO, Toshikazu; SUGIYAMA, Hiroshi

Chair: OKAMOTO, Akimitsu (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4F7-15, 4F7-17, 4F7-19, 4F7-20)

4F7-15[#] A Histochemical Approach to Copper Detection in Living Systems (UC Berkeley) ○OHATA, Jun; CHANG, Christopher**4F7-17^{*}** Raman imaging of metabolism in algal cell with stable isotope-labeling. (RIES, Hokkaido Univ.) ○YONAMINE, Yusuke; SUZUKI, Yuta; ITO, Takuro; GODA, Keisuke; OZEKI, Yasuyuki; HOSHINO, Yu**4F7-19** Development of OFF-ON-OFF fluorescent probe for application of multicolor imaging (Grad. Sch. Eng., Osaka Univ.) ○ARIZONO, Satoshi; HORI, Yuichiro; YAMASAKI, Kohei; KIKUCHI, Kazuya**4F7-20** Development of hybrid probe for imaging of endogenous membrane proteins (Grad. Sch. Eng., Osaka Univ.) ○YAMAZAKI, Nozomi; HORI, Yuichiro; MORI, Kazuma; KIKUCHI, Kazuya

Tech.) OSHIMOHATA, Hirota; KITAGAWA, Tatsuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

- 1G1-43** Improvement of Photovoltaic performance of dye-sensitized solar cells based on Copper Complex Dyes (Grad. Sch. Eng., Nagoya Inst. of Tech.)
 OKITAGAWA, Takuma; INOMATA, Tomohiko
- 1G1-44** Analysis of Additive in Ionic Liquid Aluminum Plating Solution (Sumitomo Electric Industries, Ltd.) OTSUCHIKO, Akira; GOTO, Kengo; OKADA, Kazunori
- 1G1-45*** Synthesis and Properties of POSS-Based Ionic Networks (Grad. Sch. Eng., Kyoto Univ.) OWATANABE, Aoi; TANAKA, Kazuo

Sunday, March 17, AM

Inorganic Materials

Chair: GUNJI, Takahiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-03, 2G1-05)
- 2G1-01** Wet Bead-mill Dispersion of Agglomerated ZrW₂O₈ Nanoparticles (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.)
 OKOBAYASHI, Hiroki; NAMIKI, Hiromasa; TACHIBANA, Naoki; SAKUMA, Norikazu
- 2G1-02** Preparation of organosiloxane-based mesoporous materials using regularly arranged silica nanoparticles as a template (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) OMURAMOTO, Naho; SUGIYAMA, Tomoaki; MATSUNO, Takamichi; WADA, Hiroaki; KURODA, Kazuyuki; SHIMOJIMA, Atsushi
- 2G1-03**** Soft-templating synthesis of mesoporous Rh catalysts for highly selective CO₂ conversion to methane (Univ. of Queensland) OKANI, Kenya; YAMAUCHI, Yusuke
- 2G1-05**** One-pot alcohothermal synthesis of spherical porous TiO₂-Nb₂O₅ composites - morphology and property control by elemental composition- (Grad Sch. Eng., KUT) OKUMABE, Yoshitaka; KAN, Kai; OHTANI, Masataka; KORIRO, Kazuya

Composite Materials

Chair: KOBAYASHI, Norihisa (10 : 10 ~ 11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(2G1-08, 2G1-10, 2G1-11, 2G1-12)
- 2G1-08**** Proton conductivity of confined ammonia in metal-organic frameworks (Dep. Chem., Sch. Sci., Kyoto Univ.) OLIM, Dae-woon; SHIGEMATSU, Akihito; YAMADA, Tepei; OTSUBO, Kazuya; KHUDOZHITKOV, Alexander E.; STEPANOV, Alexander G; KOLOKOLOV, Daniil I.; MAESATO, Mitsuhiro; KITAGAWA, Hiroshi
- 2G1-10** Preparation and properties of iron complex / proton conductor composite film with proton reducing ability (Grad. Sch. Fac. Sci. Technol., TUS) OWATANABE, Yu; TSUKADA, Satoru; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2G1-11** Design and synthesis of electrode active materials based on the surface-modified transition-metal-oxide nanosheets by redox-active organic molecules (Fac. Sci. Tech., Keio Univ.) OHAYASHI, Tatsuya; IMAI, Hiroaki; OAKI, Yuya
- 2G1-12** Exfoliation process and behavior of layered composites into nanosheets (Grad. Sch. Sci. Tech., Keio Univ.) OMIZUGUCHI, Ryosuke; IMAI, Hiroaki; OAKI, Yuya

Chair: TANAKA, Kazuo (11 : 10 ~ 12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(2G1-14, 2G1-15, 2G1-16, 2G1-17, 2G1-18)
- 2G1-14*** Structural Control of Thin-Film Hybrids Composed of Layered Inorganic Compounds and Organic Molecules with Redox Properties (Grad. Sch. Eng., The Univ. of Tokyo) OTOSAKA, Yu; KAJIYAMA, Satoshi; KATO, Takashi
- 2G1-15** Electric properties of metal oxide semiconductor nanoparticle-dispersed thin film for indicating ferroelectricity. (Fac. Eng., Chiba Univ.; Fac. Eng., Chiba Univ.) OAMANO, Shota; MINAMIDA, Eisuke; NOBESHIMA, Taiki; WATANABE, Yuichi; UEMURA, Sei; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 2G1-16** Preparation of Polycyclohexylsilsesquioxane and the properties of its composite film (Fac. Sci. Technol., TUS) OSATO, Yohei; HAYAMI, Ryohei; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2G1-17** Preparation of bulk-type porous silica supporting zinc oxide as desulfurizing agent (Grad. Sch. Fac. Sci. Technol., TUS) OHASHI, Masahiro; YAMAMOTO, Kazuki; TSUKADA, Satoru; GUNJI, Takahiro
- 2G1-18** Preparation and evaluation of self-cleaning film consists of phosphonic acid modified silicone and titania (Fac. Sci. Technol., TUS) ONAKAMOTO, Wataru; HAYAMI, Ryohei; YAMAMOTO, Kazuki; GUNJI, Takahiro

Sunday, March 17, PM

Inorganic Materials

Chair: MIZUTANI, Tadashi (13 : 10 ~ 14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(2G1-26, 2G1-27, 2G1-28, 2G1-30)
- 2G1-26*** Synthesis and photoresponsive behaviors of diarylethenes modified with cage silsesquioxanes (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.; Grad. Sch. Eng., Kyoto Univ.) OKAJIYA, Ryota; IKAWA, Hanako; SAKAKIBARA, Seiya; HIGASHIGUCHI, Kenji; MATSUDA, Kenji; WADA, Hiroaki; KURODA, Kazuyuki; SHIMOJIMA, Atsushi
- 2G1-27** Evaluation and Synthesis of POSS Having Two Kinds of Lumino-phores (Sch. Eng., Kyoto Univ.) OKATO, Taichi; NARIKIYO, Hayato; GON, Masayuki; TANAKA, Kazuo
- 2G1-28**** Synthesis and Evaluation of Lumino-phores-Integrated POSS Posses-sing Flexible Side-Chains (Grad. Sch. Eng., Kyoto Univ.) ONARIKIYO, Hayato; GON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiki
- 2G1-30**** Development of Liquid-Crystalline Nanocrystals by Utilizing the Formation Process of Biominerals (Grad. Sch. Eng., The Univ. of Tokyo) ONAKAYAMA, Masanari; KAJIYAMA, Satoshi; LIM, Wei Qi; KUMAMOTO, Akihito; NISHIMURA, Tatsuya; IKUHARA, Yuichi; YAMATO, Masafumi; ZHAO, Yanli; KATO, Takashi

Chair: OAKI, Yuya (14 : 20 ~ 15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2G1-33, 2G1-34, 2G1-35, 2G1-36, 2G1-37)
- 2G1-33** Synthesis and properties of azulene derivatives bearing a triethoxysilyl group (Fac. Sci. Technol., TUS) OIZUMIYA, Tetsuro; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2G1-34** Preparation and properties of microporous materials using organic bridged polysilsesquioxanes. (Fac. Sci. Technol., TUS) OIDENO, Yuzuko; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2G1-35** Preparation of 2,5-Bis(triethoxysilylvinyl)pyridine and Its Application to Reverse Osmosis Membrane (Grad. Sch. Fac. Sci. Technol., TUS) OSAITO, Ibuki; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2G1-36** Hybrids of hydroxyapatite with carboxy group-containing polyethylene terephthalate applicable to tough mechanical materials with water resistance (Grad. Sch. Eng., Doshisha Univ.) OKUDA, Kohei; MIZUTANI, Tadashi
- 2G1-37**** Construction of functional materials through confinement of gra-phene oxides within cellulose oligomer gels (Sch. Mater. & Chem. Tech., Tokyo Tech.) OHATA, Yuuki; SAWADA, Toshiki; SERIZAWA, Takeshi

Chair: MOCHIZUKI, Dai (15 : 30 ~ 16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(2G1-40, 2G1-43, 2G1-44)
- 2G1-40*** Young Scholar Lectures of CSJ Functional Arsenic Mate-rials Based on Practical Synthetic Strategies (KIT) OIMOTO, Hiroaki

Glass and Amorphous Materials

- 2G1-43** Structural change with the heat curing of lithium silicatesolution (Fuji chemical co. Ltd.) OSASAHARA, Shigeo; SAITOH, Arisa; TOKUNAGA, Takahiro; MATSUYAMA, Yuushi
- 2G1-44** Synthesis of porous silicon from bulk porous silica glass through 2-step magnesiothermic reduction (KIT) OKADONO, Kohei; MATSUBARA, Keisuke; SHIOMI, Haruhisa; SHIONO, Takeshi; OKADA, Arifumi; WAKASUGI, Takashi

Monday, March 18, AM

Organic and Polymer Materials

Chair: AKAMATSU, Norihisa (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3G1-01, 3G1-02, 3G1-03, 3G1-04, 3G1-05)
- 3G1-01** Study on migration of phthalates related to revised RoHS Directive (Tokyo Metropolitan Ind. Tech. Res. Inst.) OHIRAI, Kazuhiko; NAKAZAWA, Ryouji; KAMEZAKI, Yu; KINOSHITA, Kenji; IKEDA, Saori
- 3G1-02** Synthesis and Properties of Copolymer with Zwitterionic Units in Side Chain (Grad. Sch. Sys. Eng., Wakayama Univ.; Fac. Eng., Saitama Inst. of Tech.) OOZAKI, Ryoko; OSUGA, Hideji; TANAKA, Mutsuo; SAKAMOTO, Hidefumi
- 3G1-03** Introduction of Mono and Poly(2-methyl-2-oxazoline) Graft Chains Having a Triazinethiol Moiety onto PVC (NIT, Hachinohe College) OSATO, Kumiko; KIKUCHI, Yasuaki
- 3G1-04** Synthesis of anisotropically transformable polymer gels by crystal crosslinking method (Sch. Sci., Hokkaido Univ.) OKATOU, Tokiyo; FUKUSHIMA, Kanta; ANAN, Shizuka; KOKADO, Kenta; SADA, Kazuki
- 3G1-05** Creating Elastic Organic Crystals based on Anthracenes. (Dept. Appl. Chem., Nat. Def. Acad.) OMIKAGE, Shohei; YAMAMOTO, Shin-ichi; KOIZUMI, Toshio; KATODA, Michio; HAYASHI, Shotaro

Chair: FUNAHASHI, Masahiro (10 : 20~11 : 00)

- * 10:10-10:20: interval for laptop PC connection.(3G1-09, 3G1-10, 3G1-12)
3G1-09 Synthesis and Properties of Chitosan Derivatives with Oligoethylene-glycol and Lipophilic Moieties as Side Chains (Grad. Sch. Sys. Eng., Wakayama Univ.) ○IMAHASHI, Takuya; OSUGA, Hideji; SAKAMOTO, Hidefumi
3G1-10[#] Rapid, low temperature formation of covalent organic frameworks catalyzed by Lewis acids and their use for water purification (MANA, NIMS; Dept. Chem., Northwestern Univ.) ○MATSUMOTO, Michio; DICHEL, William
3G1-12 Mixing Enhancement Effect of Low-Molecular-Weight Gelators with Different Alkyl Chains and Hydrogen Bonding Group (Cent. LA and Sci., Ashikaga Univ.) ○OHSEDO, Yutaka

Chair: OHSEDO, Yutaka (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(3G1-14, 3G1-16, 3G1-18)
3G1-14[#] Electron Highways into Nanochannels of Covalent Organic Frameworks for High Electrical Conductivity and Energy Storage (Grad. Sch. Sci., Nagoya Univ.) ○WU, Yang; YAN, Dongwan; ZHANG, Zhongyue; AWAGA, Kunio
3G1-16[#] Control of molecular alignment and electrochromism in the mixed conductor thin films produced by liquid crystalline perylene bisimide derivatives (Kagawa Univ.) ○FUNAHASHI, Masahiro; TAKAOKA, Shunsuke
3G1-18 Synthesis, Properties, and Semiconducting Characteristics of Quinoidal Oligothiophenes Having Fluorine Atoms (ISIR, Osaka Univ.) ○YAMAMOTO, Keitaro; IE, Yutaka

Monday, March 18, PM

Chair: SHINOKUBO, Hiroshi (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3G1-26)
3G1-26[#] CSJ Award for Creative Works Development of π -extended aromatic materials using precursor approach (Grad. Sch. Mat. Sci., NAIST) ○YAMADA, Hiroko

Chair: YAMADA, Hiroko (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3G1-33, 3G1-34, 3G1-35, 3G1-36, 3G1-37, 3G1-38)
3G1-33 Effect of Photoinitiator on Molecular Alignment Induced by Scanning Wave Photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.) ○MATSUDA, Tomoaki; AIZAWA, Miho; AKAMATSU, Norihisa; SHISHIDO, Atsushi
3G1-34 Analysis of Surface Relief Structure Formed by Photopolymerization with a Grating Mask (Lab. Chem. Life Sci., Tokyo Tech.; Fac. Sci., TUS) ○HASHIMOTO, Sayuri; AIZAWA, Miho; AKAMATSU, Norihisa; SASAKI, Takeo; SHISHIDO, Atsushi
3G1-35[#] Pressure-induced transition from nonphotopolymerizable to photopolymerizable state based on bisamide-substituted diacetylene crystals (RIES, Hokkaido Univ.) ○KIM, Yuna; AOKI, Ken'ichi; FUJIOKA, Masaya; NISHII, Junji; TAMAOKI, Nobuyuki
3G1-36 Development of Nanostructured Liquid-Crystalline Electrolytes for Dye-Sensitized Solar Cells (Grad. Sch. Eng., The Univ. of Tokyo) ○MIZUMURA, Yurika; HÖGBERG, Daniel; SOBERATS, Bartolome; YOSHIO, Masafumi; UCHIDA, Satoshi; SEGAWA, Hiroshi; KATO, Takashi
3G1-37 Photoelectrochemical property of Cu doped bipyridine linked covalent organic framework films (Sch. Eng. Sci., Osaka Univ.) ○HOSOKAWA, Tomoya; TUJI, Masaki; KAMIYA, Kazuhide; HARADA, Takashi; NAKANISHI, Shuji
3G1-38 Proton conductivity of imine-linked covalent organic frameworks (COFs) (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSUJI, Masaki; KAMIYA, Kazuhide; HARADA, Takashi; NAKANISHI, Shuji

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Applications of Materials

Saturday, March 16, AM

Chair: YONEZAWA, Tetsu (9 : 00 ~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(1G2-01, 1G2-05, 1G2-06, 1G2-07)
1G2-01 CSJ Award for Technical Development Development and Commercialization of High-performance Positive Photosensitive Siloxane Coatings (Toray Industries, Inc.; Toray Industries, Inc.; Toray Industries, Inc.; Toray Industries, Inc.; Toray Industries, Inc.) ○SUWA, Mitsuhito; SENOO, Masahide; ARAKI, Hitoshi; UCHIDA, Keiichi; HIBINO, Toshiyasu
1G2-05 Adsorption of a Variety of Low-Molecular Organic Compounds by Fluorinated Oligomer/Cellulose Fiber Composites (Grad. Sch. Sci. Tech.,

Hirosaki Univ.) ○YAMAMOTO, Shunta; SAWADA, Hideo

- 1G2-06** Preparation and Adsorption of a Variety of Low Molecular Organic Compounds by Fluoroalkyl End-capped Oligomer/Micro sized Silica Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○HONMA, Genta; YAMAMOTO, Syunta; SAWADA, Hideo
1G2-07 Preparation and Application of Fluorinated Diol/micrometer size-controlled silica gel Composites (Fac. Sci. Tech., Hirosaki Univ.) ○SAITOU, Ryo; YAMASHITA, Katsumi; KANEMI, Yoshiyama; KIJIMA, Tetsushi; KOKIN, Keisuke; SAWADA, Hideo

Chair: KANIE, Kiyoshi (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(1G2-09, 1G2-11, 1G2-12, 1G2-13, 1G2-14)
1G2-09^{*} Conductive layer formation by low temperature sintering of Cu₂O (Grad. Sch. Eng., Hokkaido Univ.) ○YONEZAWA, Tetsu; TSUKAMOTO, Hiroki; NISHIMOTO, Masamu
1G2-11 Photo-electrochemical response of Ag nanoparticles in metal deposition-based electrochromic device. (Fac. Eng., Chiba Univ.) ○FUKUDA, Shiori; SUGITA, Tomoko; KIMURA, Syunsuke; KOBAYASHI, Norihisa; NAKAMURA, Kazuki
1G2-12 Effect of supporting electrolyte in Bi-deposition based electrochromic device on morphology of Bi electrodeposit and their optical properties (Fac. Eng., Chiba Univ.) ○MOROMISATO, Eidji; ZHUANG, Liang; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
1G2-13 Improvement mechanism of emission properties in Ru(bpy)₃²⁺ based ECL device by adding TiO₂ nanoparticle. (Fac. Eng., Chiba Univ.) ○MURAOKA, Ryoma; MATSUMOTO, Syogo; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
1G2-14 Investigation of Stretchable Light-Emitting Electrochemical Cells Fabricated with Amphiphilic Triblock Copolymer Modified PEDOT:PSS/PDMS Electrodes. (Sch. Advanced Sci. Eng., Waseda Univ.) ○FUKUOKA, Kentaro; UCHIDA, Soichi; NISHIMURA, Suzushi; OYAIZU, Kenichi; NISHIKITANI, Yoshinori

Chair: SHISHIDO, Atsushi (11 : 30~12 : 10)

- * 11:20-11:30: interval for laptop PC connection.(1G2-16, 1G2-18, 1G2-19)
1G2-16^{*} Preparation of Organic Phosphonic Acids/Magnetite Composites - Application to Separation of Water/Oil (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○YAMASHITA, Katsumi; KANEMI, Yoshiyama; KIJIMA, Tetsushi; KOKIN, Keisuke; SAWADA, Hideo
1G2-18 Separation of Water-Oil Emulsion by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Magnetite Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○OKADA, Seigo; YAMASHITA, Katsumi; SAWADA, Hideo
1G2-19 Adsorption of Radical Polymerizable Monomers by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric Silica Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○MORIMOTO, Takanobu; YAMASHITA, Katsumi; SUZUKI, Junichi; SAWADA, Hideo

Saturday, March 16, PM

Chair: FUNABIKI, Kazumasa (14 : 30~15 : 40)

- * 14:20-14:30: interval for laptop PC connection.(1G2-34, 1G2-36, 1G2-37, 1G2-38, 1G2-39)
1G2-34^{*} Determination of Extraction Efficiency of Organic Solvent from Sampling Agents in Low Concentration Region (JOHAS) ○ABIKO, Hironobu
1G2-36 Strain Visualization of Bent Soft Material by Means of Cholesteric Liquid Crystal Films (Lab. Chem. Life Sci., Tokyo Tech.) ○KISHINO, Masayuki; HISANO, Kyohei; TSUTSUMI, Osamu; AKAMATSU, Norihisa; SHISHIDO, Atsushi
1G2-37 Bent Shape Analysis of Oriented Polymer Films (Lab. Chem. Life Sci., Tokyo Tech.) ○KUWAHARA, Kohei; TOKUMITSU, Kayoko; TAGUCHI, Ryo; AKAMATSU, Norihisa; FUJIKAWA, Shigenori; SHISHIDO, Atsushi
1G2-38 Preparation and Wettability of Fluoroalkyl End-capped Vinyltrimethoxysilane Cooligomer/Cross-linked Polystyrene Composites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) ○ARAKAWA, Koki; AOMI, Yuta; SAWADA, Hideo
1G2-39[#] Preparation and Fluorescent Behavior of Fluoroalkyl End-Capped Oligomers/Hexagonal Boron Nitride Nanocomposites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SAENGKAEW, Jitraporn; YAMASHITA, Katsumi; SAWADA, Hideo

Chair: KOBAYASHI, Norihisa (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1G2-42, 1G2-44, 1G2-45, 1G2-46, 1G2-47)
1G2-42[#] Study on electronic states of anthraquinone dyes by using several molecular orbital calculation methods (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○HWANG, Jiyong; MATSUMOTO, Shinya
1G2-44 Self-Assemblies made from Amphiphilic phthalocyanine (Fac. Textile Sci. Technol., Shinshu Univ.) ○KUDO, Ryota; KIMURA, Mutsumi
1G2-45 Association properties of phthalocyanine dimer which has octa-substituted hexyl chain in the α positions. (Fac. Textile Sci. Technol., Shinshu Univ.) ○KARASAWA, Yosuke; KIMURA, Mutsumi

- 1G2-46** Coumarin-dihydroperimidone dye as a fluorescent receptor for hypochlorite (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMADA, Chiharu; SHIRAI, Yasuhiro; HIRAI, Takayuki
- 1G2-47** Synthesis of Near-Infrared Absorbing and Fluorescing Bispyrrole Squarylium Dyes (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; ○NAOI, Ryoma; TACHIKAWA, Motoki; INUZUKA, Toshiyasu; FUNABIKI, Kazumasa

Chair: SAWADA, Hideo (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1G2-49, 1G2-50, 1G2-51, 1G2-52, 1G2-53, 1G2-54)
- 1G2-49** Synthesis and photophysical properties of anthraquinone boron complexes (Fac. Eng., Gifu Univ.) KUBOTA, Yasuhiro; ○MIZUNO, Yuka; AKATA, Hiroki; INUZUKA, Toshiyasu; FUNABIKI, Kazumasa; MATSUI, Masaki
- 1G2-50** Improvement of the Properties of Heptamethine Cyanine Dyes by Introduction of Fluorine Atoms (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○AJIOKA, Shohei; KUBOTA, Yasuhiro; INUZUKA, Toshiyasu; FUNABIKI, Kazumasa
- 1G2-51** Aromatic Fluorines-Induced Changes of the Fluorescence Properties (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○YAMADA, Kengo; KUBOTA, Yasuhiro; INUZUKA, Toshiyasu; AGOU, Tomohiro; KUBOTA, Toshio; FUNABIKI, Kazumasa
- 1G2-52** Synthesis of Water-soluble Phthalocyanine Derivatives and Evaluation of Their Photoacoustic Signal Intensity (Grad. Sch. Eng., Kyoto Univ.) ○NOGITA, Kohei; MIKI, Koji; OHE, Kouichi
- 1G2-53** Synthesis of a thieno[1,3,2]oxazaborinine-typed aza-BODIPY dye with near-infrared absorption band (Urban Environmental Sciences, Tokyo Metropolitan University) ○SHIMADA, Takuma; KUBO, Yuji
- 1G2-54** A panchromatic photosensitizer for photocatalytic hydrogen production (Grad. Sch. Urban Envr. Sci., TMU) ○SATO, Haruka; HIGASHINO, Yuta; SURYANI, Okta; KUBO, Yuji

Sunday, March 17, AM

Chair: KASAI, Hitoshi (9 : 00 ~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-03, 2G2-05, 2G2-07)
- 2G2-01**** Designing (1→2)-Glucopyranan Skeleton for Tough, Strong, and Repeatable Adhesion (Fac. Eng., Toyama Pref. Univ.) ○IHSAN, Abu Bin; KOYAMA, Yasuhiro
- 2G2-03**** Electron-beam irradiation effect on adhesion properties of isotactic polypropylene and analysis of its mechanism (Grad. Sch. Eng., Kobe Univ.) ○MATSUMOTO, Takuya; OKUMURA, Yuka; NISHINO, Takashi
- 2G2-05**** Photo-Sensitized Singlet Oxygen Generation by A-D-A-Type Functional Dyes Based on Bridged Bithiophene Dimers (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○HAYASHI, Yuichiro; GOTO, Yusuke; MAEDA, Takeshi; YAGI, Shigeyuki; ENOKI, Toshiaki; OYAMA, Yousuke; OHSHITA, Joji
- 2G2-07** Synthesis and Properties of Dithienosilole Dimers Bearing Pyridinium Moieties at the Molecular Termini (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○MORIMOTO, Ami; HAYASHI, Yuichiro; YAGI, Shigeyuki; MAEDA, Takeshi; ENOKI, Toshiaki; OYAMA, Yousuke; OHSHITA, Joji

Chair: KANIE, Kiyoshi (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(2G2-09, 2G2-10, 2G2-11, 2G2-12, 2G2-14)
- 2G2-09** Synthetic Strategy for a New Fused π -Conjugated Compound Based on Benzof[*c*]thiophene Skeleton (Fac. Eng., Hiroshima Univ.) ○OOBAYASHI, Kotaro; YASUI, Masataka; ENOKI, Toshiaki; IMAE, Ichiro; OYAMA, Yousuke
- 2G2-10** Development of a Julolidine-Structured β -Carboline-Boron Trifluoride Complex as an Optical Sensor for Water Molecule (Grad. Sch. Eng., Hiroshima Univ.) ○TSUMURA, Shuhei; ENOKI, Toshiaki; IMAE, Ichiro; OYAMA, Yousuke
- 2G2-11** Withdrawn
- 2G2-12*** Relationship between structures and battery performances of MOFs with disulfide moiety-containing ligands (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SHIMIZU, Takeshi; WANG, Heng; MATSUMURA, Daiju; YOSHIKAWA, Hirofumi
- 2G2-14** Synthesis of Redox-active Coordination Polymer for Cathode Materials with Large Capacity (Sch. Sci., Tohoku Univ.) ○KONG, Kazuki Kon; YAMASHITA, Masahiro; HONMA, Itaru; KOBAYASHI, Hiroaki; GAMBE, Yoshiaki; TAKAISHI, Shinya

Chair: YOSHIKAWA, Hirofumi (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(2G2-16, 2G2-17, 2G2-18, 2G2-20)
- 2G2-16** Synthesis of titanium-niobium oxides and their charge/discharge characteristics as negative electrodes of lithium-ion batteries. (Fac. Sci. Eng., Doshisha Univ.) ○SUGIMOTO, Kengo; HARUTA, Masakazu; DOI, Takayuki; INABA, Minoru
- 2G2-17** Molecular orientation control with spin-coated graphene layer and its application for organic solar cells (Grad. Sch. Eng., Osaka Univ.)

- SAKURAI, Minoru; YAMADA, Keitarou; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi

- 2G2-18*** Study on the degradation mechanism of a fuel cell Pt₃Co/C cathode catalyst using the same-view nano XAFS/STEM method (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○TAKAO, Shinobu; SEKIZAWA, Oki; KANEKO, Takuma; HIGASHI, Kotaro; SAKATA, Tomohiro; YAMAMOTO, Takashi; URUGA, Tomoya; IWASAWA, Yasuhiro
- 2G2-20*** In-situ real-time HR-XANES/XAFS/XRD study on dynamic changes of the structure and oxygen adsorbates of PEFC Pt/C cathode catalysts under practical FCV driving conditions (Innovation Res. Ctr. for Fuel Cells, The Univ. of Electro-Communications) ○KANEKO, Takuma; SAKATA, Tomohiro; HIGASHI, Kotaro; SEKIZAWA, Oki; TAKAO, Shinobu; YOSHIDA, Yusuke; YAMAMOTO, Takashi; URUGA, Tomoya; IWASAWA, Yasuhiro

Sunday, March 17, PM

Chair: IWASE, Kazuyuki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2G2-29, 2G2-30, 2G2-31, 2G2-32, 2G2-33, 2G2-34)
- 2G2-29** Electrochemical oxidation of lactic acid using Pt-Pd nanoalloy catalysts (Grad. Sch. Sci., Kyushu Univ.) ○MORIMOTO, Tatsuyoshi; KITANO, Sho; HAN, Xiang-bin; YE, Shen; YAMAUCHI, Miho
- 2G2-30** Co₂C nanoparticles supported on carbon as a durable catalyst for oxygen reduction reaction in acidic solution (Sch. Eng., Tohoku Univ.) ○NEYA, Atsushi; ENDO, Kanae; NAKAYA, Masafumi; YABUSHITA, Mizuho; MAKI, Sachiko; KANIE, Kiyoshi; MURAMATSU, Atsushi
- 2G2-31** Development of highly pliable biodegradable polymer and its application to small-diameter vascular graft (Toray Industries, Inc.) ○KOGAWA, Taisuke; KADOWAKI, Koji; FUJITA, Masaki; SAKAGUCHI, Yuka; SAKAGUCHI, Hirokazu; TANAHASHI, Kazuhiro; MIWA, Keishi
- 2G2-32** Preparation of Human Hemoglobin-Albumin Cluster as an Artificial Oxygen Carrier. (Fac. Sci. Eng., Chuo Univ.) ○HAMANO, Tatsuhiko; SAKATA, Sho; KASHIMA, Tomonori; FUNAKI, Ryosuke; MORITA, Yoshitsugu; KOMATSU, Teruyuki
- 2G2-33** Development of Metal (Au, Pt) Nanoparticle-Latex Nanocomposites as Detection Probes with Enhanced Sensitivity for Immunochromatographic Test Strips (NIPPON STEEL Chemical & Material Co., Ltd.) ○MATSUMURA, Yasufumi; ENOMOTO, Yasushi; TAKAHASHI, Mari; MAENOSONO, Shinya
- 2G2-34*** Granzyme B Profiling of Human PBMC for Immune Related Baseline Identification (Grad. Sch. Eng., Osaka Univ.) ○BRIONES, Jonathan; ESPULGAR, Wilfred; YOSHIKAWA, Hiroyuki; SAITO, Masato; TAKAMATSU, Hyouta; KOYAMA, Shohei; TAMIYA, Eiichi

Resources Utilization Chemistry

Monday, March 18, AM

Chair: KODAKI, Tsutomu (9 : 30 ~10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(3G2-04, 3G2-05, 3G2-07)
- 3G2-04** Selective dissolution of cellulose with liquid zwitterion (Coll. Sci. Eng., Kanazawa Univ.) ○KADOKAWA, Riki; KURODA, Kosuke; NINOMIYA, Kazuaki; TAKAHASHI, Kenji
- 3G2-05**** Microwave-assisted facile conversion of lignin to fluorescent imidazole compounds (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; RISH, Kyoto Univ.) ○PINCELLA, Francesca; LU, Siming; MATSUDA, Hiroshi; FAN, Lulu; MATSUMORI, Tomoko; KATSUYAMA, Isamu; ISOZAKI, Katsuhiro; FUKUDA, Kenji; WATANABE, Takashi; NAKAMURA, Masaharu
- 3G2-07**** Creation of Carbon Five-Membered Ring Compounds by Hydrothermal Reaction under Mild Conditions and Their Application to High Value Compounds (IMRAM, Tohoku Univ.) ○KAMISHIMA, Takaaki; NONAKA, Toshiyuki; WATANABE, Toshihiro; KOSEKI, Yoshitaka; KASAI, Hitoshi

Chair: ISOZAKI, Katsuhiro (10 : 30~11 : 10)

- * 10:20-10:30: interval for laptop PC connection.(3G2-10, 3G2-11, 3G2-12)
- 3G2-10** Development of a Yeast with Increased Tolerance to Ionic Liquid for Production of Bioethanol from Cellulose (IAE, Kyoto Univ.) ○KISHIRO, Takashi; KOMAI, Masato; KODAKI, Tsutomu; NOHIRA, Toshiyuki
- 3G2-11** Fundamental study on immobilization of methanogen using carrier (Mie Pref. Ind. Res. Inst.) ○KUBO, Tomoko; MATSUURA, Shinya; MAEGAWA, Akihiro; HASHIMOTO, Noritsugu; KAI, Hotaka; TOKUMOTO, Hayato
- 3G2-12*** Coloration of Wool Fibers Using Reducing Sugars -Influence of Color Density of Wool Fibers on Sugar Structure- (ORIST) ○OHE, Takeru; YOSHIMURA, Yurika

Chair: OKUMURA, Mitutaka (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(3G2-15, 3G2-16, 3G2-17, 3G2-18)
- 3G2-15** Production of propylene from ethanol with gallium oxide-based

- catalyst (Grad. Sch. Sci. and Eng., Kansai Univ.) ○OKUMURA, Yuki; FUKU, Kojiro; IKENAGA, Naoki
- 3G2-16** Coal structural change at 500-900C by solid-state ¹³C NMR (RIEF, AIST) ○KAWASHIMA, Hiroyuki
- 3G2-17** Evaluation of catalytic effects of Si(100) surfaces on reduction reactions of carbon dioxide through quantum chemical calculations (Sch. Creative Sci. Eng., Waseda Univ.) ○INOUE, Takanori; KUNIOSHI, Nilson; FUWA, Akio; YAMAGUCHI, Katsunori
- 3G2-18** Analysis of adsorption and reduction reactions of carbon dioxide over diamond (100) surfaces through quantum chemical calculations (Sch. Creative Sci. Eng., Waseda Univ.) ○KURIHARA, Reina; KUNIOSHI, Nilson; FUWA, Akio; YAMAGUCHI, Katsunori

Room G3

Bldg. 3 363

Biofunctional Chemistry ; Biotechnology

Saturday, March 16, AM

Protein (Peptide)

Chair: TSUTSUMI, Hiroshi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G3-01, 1G3-02, 1G3-03, 1G3-04, 1G3-05, 1G3-06)
- 1G3-01** Fluorescence Detection of RNA Using Peptide Nucleic Acid Containing a Fluorescein Group and DabcyI Groups as Molecular Probe (Fac. Sci. Eng., Kindai Univ.) ○KISHI, Takamasa; KITAMATSU, Mizuki; OHTSUKI, Takashi
- 1G3-02** Fluorescence Detection of RNA by Using Peptide Nucleic Acid Containing an Acridonyl Group and a Benzoacridonyl Group as a Molecular Probe (Grad. Sch. Sci. Eng., Kindai Univ.) ○MATSUBARA, Yoshiki; KITAMATSU, Mizuki; OHTSUKI, Takashi
- 1G3-03** Growth Inhibition of Bacteria Associated with Periodontal Disease by Peptide Nucleic Acids Conjugated to Peptide Carrier (Grad. Sch. Sci. Eng., Kindai Univ.) ○NISHIMURA, Ayano; KITAMATSU, Mizuki; MAEDA, Hiroshi
- 1G3-04** Miniaturization of a Peptide Structure with a Selective Gold Ion Reduction Property for Industrial Application (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○TONODA, Tatsuki; ASANO, Masahiro; TOMIZAKI, Kin-ya
- 1G3-05** Complexation of Plasmid DNA and Carrier Peptide to Improve Nucleic Acid Release Activity and Red Protein Expression Efficiency. (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○UEMATSU, Yuta; YAMASAKI, Masayuki; HAYASHIDA, Jun; TOMIZAKI, Kin-ya
- 1G3-06** Photocontrol of (Pro-Pro-Gly)_n Collagen Peptide Triple Helix Self-assembly by Azobenzene Linker (Grad. Sch. Life Sci. Sys. Eng., KIT) ○ONISHI, Haruya; ISHIZAKI, Yui; SATO, Daisuke; KATO, Tamaki
- Chair: SHIGETO, Hajime (10 : 10 ~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(1G3-08, 1G3-09, 1G3-10, 1G3-11, 1G3-13)
- 1G3-08** Development of Circularly Polarized Luminescence (CPL) Peptides Containing Pyrenylalanines and Oligoarginines (Grad. Sch. Sci. Eng., Kindai Univ.) ○MOTOMURA, Yuki; KITAMATSU, Mizuki; MIMURA, Yuki; IMAI, Yoshitane
- 1G3-09** Development of Circularly Polarized Luminescence (CPL) Peptides Containing Pyrenylalanines and 2-aminoisobutyric acid (Grad. Sch. Sci. Eng., Kindai Univ.; ORIST) ○MIMURA, Yuki; KAJIYAMA, Kohsuke; SHIZUMA, Motohiro; KITAMATSU, Mizuki; IMAI, Yoshitane
- 1G3-10** Self-assembling peptide material(1): Structure-assembly relationship of designed peptides with a urea bond and cell culture application (Sch. Life Sci. Tech., Tokyo Tech.) ○KODAMA, Iori; CHIA, Jyh Yea; MIHARA, Hisakazu; TSUTSUMI, Hiroshi
- 1G3-11*** Self-assembling peptide material(2): 3D culture of cancer cells in self-assembling peptide hydrogel materials toward cancer tissue engineering (Sch. Life Sci. Tech., Tokyo Tech.) ○TSUTSUMI, Hiroshi; CHIA, Jyh Yea; KODAMA, Iori; MIHARA, Hisakazu
- 1G3-13** The expression and functional analysis of 4 α -helix bundle proteins toward artificial fluorescent protein (Sch. Life Sci. Tech., Tokyo Tech.) ○TAKAHASHI, Yota; MIKI, Takayuki; MIHARA, Hisakazu; TSUTSUMI, Hiroshi

Chair: TOMIZAKI, Kin-ya (11 : 20 ~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(1G3-15, 1G3-16, 1G3-17)
- 1G3-15** Development of stapled cell penetrating peptides and evaluation of their cellular uptake ability (Sch. Life Sci. Tech., Tokyo Tech.) ○KINOSHITA, Tomoki; MIKI, Takayuki; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 1G3-16** Artificial protein assembly in living cell by de novo peptide fusion (Sch. Life Sci. Tech., Tokyo Tech.) ○MIKI, Takayuki; NAKAI, Taichi;

TSUTSUMI, Hiroshi; MIHARA, Hisakazu

- 1G3-17**** In vitro selection of peptide aptamers that recognize a specific conformation of an organic dye (Grad. Sch. Sci., Eng., Saitama Univ.) ○TERAI, Takuya; ANZAI, Hiroki; YAMADA, Riku; NEMOTO, Naoto

Saturday, March 16, PM

Peptide

Chair: MIKI, Takayuki (13 : 10 ~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(1G3-26, 1G3-27, 1G3-28, 1G3-30)
- 1G3-26** In vitro selection under heterogeneous biosystems using cDNA display (Saitama Univ.) ○ANZAI, Hiroki; NEMOTO, Naoto; TERAJ, Takuya
- 1G3-27** Obtain targeted covalent binder by using extended phage display: Alteration of nonreactive bait fragment to its reactive analog (Sci. Eng., The Univ. of Electro-Communications) ○NUMAYAMA, Tsubasa; TAKI, Masumi
- 1G3-28*** Enzyme-reactive self-assembling peptides for the post-functionalization of proteins (Grad. Sch. Eng., Kyushu Univ.) ○WAKABAYASHI, Rie; GOTO, Masahiro; KAMIYA, Noriho
- 1G3-30**** Enzymatic cell-surface decoration with a functional protein using amphiphilic lipid-fused peptide substrates (NIT, Kitakyushu College) ○TAKAHARA, Mari; FUJIMOTO, Naoki; WAKABAYASHI, Rie; MINAMIHATA, Kosuke; GOTO, Masahiro; KAMIYA, Noriho

Chair: TERAJ, Takuya (14 : 20 ~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1G3-33, 1G3-34, 1G3-35, 1G3-36, 1G3-37)
- 1G3-33** Controlled co-assembly of peptide amphiphiles using hydrophobic substituents (Fac. Eng., Kyushu Univ.) ○IMATANI, Rino; OBAYASHI, Hiroki; WAKABAYASHI, Rie; KAMIYA, Noriho; GOTO, Masahiro
- 1G3-34** Binding analysis of cyclic Tau-derived peptides to microtubules (Grad. Sch. Eng., Tottori Univ.; Fac. Sci., Hokkaido Univ.) ○INABA, Hiroshi; JULIANO MIYAKE, Kyeongmi; YAMAMOTO, Takahisa; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori
- 1G3-35** Creation of green fluorescent protein-encapsulated microtubules by using Tau-derived peptide (Grad. Sch. Eng., Tottori Univ.; FATU; Fac. Sci., Hokkaido Univ.) ○YAMAMOTO, Takahisa; INABA, Hiroshi; IWASAKI, Takashi; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori
- 1G3-36** Creation of magnetic nanoparticle-encapsulated microtubules by using Tau-derived peptides (Grad. Sch. Eng., Tottori Univ.; Fac. Sci., Hokkaido Univ.) ○YAMADA, Mayuki; YAMAMOTO, Takahisa; INABA, Hiroshi; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori
- 1G3-37**** Irradiation effect of gyrotroin on amyloid fibrils (FEL-TUS; FIR-UF) ○KAWASAKI, Takayasu; YAMAGUCHI, Yuusuke; ISHIKAWA, Yuya; IDEHARA, Toshitaka; TSUKIYAMA, Koichi

Chair: WAKABAYASHI, Rie (15 : 30 ~16 : 10)

- * 15:20-15:30: interval for laptop PC connection.(1G3-40, 1G3-41, 1G3-42, 1G3-43)
- 1G3-40** Enzymatic preparation of amyloid-based functional material (Grad. Sch. Sci. Eng., Univ. of Toyama) ○SAKONO, Masafumi; OHSHIMA, Tatsuki; MIYAKOSHI, Ayano
- 1G3-41** Fluorescence imaging of gangliosides on giant liposome by Dansyl-arginine methyl ester (Grad. Sch. Eng., Tottori Univ.) ○HISAMOTO, Kouichi; TANAKA, Tomoya; INABA, Hiroshi; MATSUURA, Kazunori
- 1G3-42** Construction of Artificial Viral Capsid decorated with Green Fluorescent Protein on the surface (Fac. Eng., Tottori Univ.) ○SHIMOMURA, Kazuki; INABA, Hiroshi; IWASAKI, Takashi; MASTUURA, Kazunori
- 1G3-43** construction of enveloped artificial virus capsid using electrostatic interaction (Fac. Eng., Tottori Univ.) ○FURUKAWA, Hiroto; INABA, Hiroshi; MATSUURA, Kazunori

Chair: MATSUURA, Kazunori (16 : 20 ~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(1G3-45, 1G3-48, 1G3-49)
- 1G3-45#** Young Scholar Lectures of CSJ Protein design and engineering toward functional biomaterials (Hakubi Center, Kyoto Univ.) ○SUZUKI, Yuta
- 1G3-48** Encapsulation of amyloid β protein into self-assembled M₁₂L₂₄ spherical complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○NOMURA, Takuya; SUZUKI, Ryoto; FUJITA, Nomura; YAGI, Maho; KATO, Koichi; FUJITA, Makoto
- 1G3-49**** Protein stabilization and refolding in a synthetic cage (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Ryoto; FUJITA, Daishi; FUJITA, Makoto

Chair: INABA, Hiroshi (17 : 30 ~18 : 10)

- * 17:20-17:30: interval for laptop PC connection.(1G3-52, 1G3-53, 1G3-55)
- 1G3-52** Functionalization and structural analysis of a synthetic β -barrel (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGAMI, Motoya;

SAWADA, Tomohisa; FUJITA, Makoto

- 1G3-53*** Analysis of the interaction between the anionic protein nanoparticle, TIP60, and cationic proteins (Fac. Sci. Tech., Keio Univ.) ○KAWAKAMI, Norifumi; NASU, Erika; MIYATA, Takeshi; MIYAMOTO, Kenji
1G3-55 Reversible Modification of an Artificial Protein Nanoparticle TIP60 (Grad. Sch. Sci. Tech., Keio Univ.) ○NASU, Erika; KAWAKAMI, Norifumi; MIYAMOTO, Kenji

Sunday, March 17, AM

Protein (Metal)

Chair: OOHORA, Koji (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(2G3-01, 2G3-02, 2G3-03, 2G3-05, 2G3-06)
2G3-01# Construction of a Two-Dimensional Protein Array Utilizing a Cytochrome *c*₅₅₅-Based Protein (Grad. Sch. Mat. Sci., NAIST) ○XIE, Cheng; YAMANAKA, Masaru; NAGAO, Satoshi; SHIBATA, Naoki; HIGUCHI, Yoshiaki; HIROTA, Shun
2G3-02 Design and properties of domain-swapped myoglobin dimers with metal-binding abilities (Grad. Sch. Mat. Sci., NAIST) ○IDOMOTO, Ayaka; NAGAO, Satoshi; SHIBATA, Naoki; HIGUCHI, Yoshiaki; HIROTA, Shun
2G3-03** Design of stable domain-swapped myoglobin oligomers (Grad. Sch. Mat. Sci., NAIST) ○NAGAO, Satoshi; SUDA, Ayaka; KOBAYASHI, Hisashi; SHIBATA, Naoki; HIGUCHI, Yoshiaki; HIROTA, Shun
2G3-05 Conferment of CO-controlled Dimer-Monomer Transition Property to Thermostable Cytochrome *c*' by Mutation in the Subunit-Subunit Interface (Grad. Sch. Sci. & Tech., NAIST) ○YAMANAKA, Masaru; NAKAYAMA, Ryoko; WAKAI, Satoshi; FUJII, Sotarou; SAMBONGI, Yoshihiro; HIROTA, Shun
2G3-06 A single mutation converts cyanobacterial Alr5027 to a heme-binding protein with heme-degrading ability (Grad. Sch. Sci., Hokkaido Univ.) DOJUN, Nobuhiko; ISHIMORI, Koichiro; ○TAKESHI, Uchida

Chair: TAKESHI, Uchida (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2G3-08, 2G3-10, 2G3-12)
2G3-08** Supramolecular Assembly of Engineered Cytochrome *b*₅₆₂ Forming a Thermodynamically Stable Ring-shaped Trimer (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○OOHORA, Koji; KAJIHARA, Ryota; HAYASHI, Takashi
2G3-10** Construction of a Micellar Assembly of Hexameric Hemoprotein and Evaluation of its Photochemical Behavior (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○HIRAYAMA, Shota; OOHORA, Koji; HAYASHI, Takashi
2G3-12** Synthesis and Oxygen Affinity of Hemoglobin (β C93A)-Albumin Cluster (Fac. Sci. Eng., Chuo Univ.) ○MORITA, Yoshitsugu; IGARASHI, Keisuke; KOMATSU, Teruyuki

Chair: FUJIEDA, Nobutaka (11:20~12:10)

- * 11:10-11:20: interval for laptop PC connection.(2G3-15, 2G3-17, 2G3-18, 2G3-19)
2G3-15** Energy Transfer in Supramolecular Protein Assembly toward Constructing an Artificial Light Harvesting Antenna (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Biomedical Eng., Eindhoven Univ. of Tech.) ○MASHIMA, Tsuyoshi; OOHORA, Koji; BRUNSVELD, Luc; HAYASHI, Takashi
2G3-17 Reconstitution of Self-sufficient Cytochrome P450BM3 for the Substitution of its Heme Cofactor (Grad. Sch. Sci., Nagoya Univ.) ○OMURA, Keita; AIBA, Yuichiro; MATSUMOTO, Ayaka; ONODA, Hiroki; STANFIELD, Joshua Kyle; ARIYASU, Shinya; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; SHOJI, Osami; WATANABE, Yoshihito
2G3-18 Exhaustive Screening of Peptide Like Molecules for the Substrate-Misrecognition of Cytochrome P450BM3 (Sch. Sci., Nagoya Univ.) ○YONEMURA, Kai; ARIYASU, Shinya; STANFIELD, Joshua Kyle; ONODA, Hiroki; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; SHOJI, Osami; WATANABE, Yoshihito
2G3-19 Developing the Whole-Cell Biocatalyst Utilizing the Malfunction of the Fatty-Acid Hydroxylase Induced by Substrate Mimics (Grad. Sch. Sci., Nagoya Univ.) ○KARASAWA, Masayuki; SHOJI, Osami; WATANABE, Yoshihito

Sunday, March 17, PM

Chair: SHOJI, Osami (13:20~14:20)

- * 13:10-13:20: interval for laptop PC connection.(2G3-27, 2G3-28, 2G3-29, 2G3-30, 2G3-31)
2G3-27 Development of Artificial Metalloenzymes Catalyzing Asymmetric Reduction of Ketones (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ○ODAWARA, Shun; YUASA, Miho; FUJIEDA, Nobutaka
2G3-28 Development of Artificial Metalloenzymes for cis-Selective Cyclopropanation Reaction (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) MATSUO, Atsuki; YUASA, Miho; ○FUJIEDA, Nobutaka; ITOH, Shinobu
2G3-29 Synthesis and O₂-Binding Property of Hemoglobin(β L28mutant)-

Albumin Cluster (Fac. Sci. Eng., Chuo Univ.) ○OKAMOTO, Wataru; FUNAKI, Ryosuke; MORITA, Yoshitsugu; KOMATSU, Teruyuki

- 2G3-30** Synthesis of Hemoglobin (β K120C)-Albumin Trimer (Fac. Sci. Eng., Chuo Univ.) ○SAITO, Asuka; MORITA, Yoshitsugu; KOMATSU, Teruyuki
2G3-31* Oxygen Binding Properties of Kumaglobin from Ramazzottius (ISIR, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.; Sch. Pharm., Osaka Univ.) ○KOBAYASHI, Kazuo; KIM, Jeeun; FUKUDA, Youta; TAKAHIRO, Kozawa; INOUE, Tsuyoshi

Monday, March 18, AM

Chair: ABE, Satoshi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3G3-01, 3G3-02, 3G3-04, 3G3-05, 3G3-06)
3G3-01 Construction of heme acquisition protein A (HasA) incorporating metal complex with bulky substituents (Grad. Sch. Sci., Nagoya Univ.) ○SAKAKIBARA, Erika; SHISAKA, Yuma; KOGA, Daiki; XU, Ning; ONO, Toshikazu; HISAEDA, Yoshio; SUGIMOTO, Hiroshi; WATANABE, Yoshihito; SHOJI, Osami
3G3-02** Selective Sterilization of *Pseudomonas aeruginosa* Utilizing its extracellular heme acquisition protein with gallium-phthalocyanine (Grad. Sch. Sci., Nagoya Univ.) ○SHISAKA, Yuma; IWAI, Yusuke; YAMADA, Shiho; TOSHA, Takehiko; SUGIMOTO, Hiroshi; SHIRO, Yoshitsugu; WATANABE, Yoshihito; SHOJI, Osami
3G3-04 Preparation of Polyacrylamide Gel Containing Hexameric Hemoprotein as a Cross-linker (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○KAGEYAMA, Kazuki; OOHORA, Koji; HAYASHI, Takashi
3G3-05 Preparation of De Novo Hemoprotein-based Hydrogel and Evaluation of its Redox-responsive Property (Grad. Sch. Eng., Osaka Univ.; PRESTO, JST) ○OZAKI, Taichi; OOHORA, Koji; HAYASHI, Takashi
3G3-06* Incorporation of a noncanonical metal-binding amino acid into a nitrobindin protein (Sch. Eng., Osaka Univ.) ○ALVAREZ MILLER, Mhairie Claire; TANIGUCHI, Naomasa; MINAGAWA, Noriko; ONODA, Akira; HASHIMOTO, Takuya; MARUOKA, Keiji; UZAWA, Takanori; HAYASHI, Takashi

Protein

Chair: OOHORA, Koji (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3G3-08, 3G3-10, 3G3-11)
3G3-08** Design of *in vivo* protein crystals containing foreign enzymes (Sch. Life Sci. Tech., Tokyo Tech.) ○NGUYEN, Tien Khanh; ABE, Satoshi; UENO, Takafumi
3G3-10* Construction of Protein Needle with Cargo Protein derived from Norovirus (Grad. Sch. Biosci. Biotech., Tokyo Tech.) ○NGUYEN, Que Dan; KATAYAMA, Kazuhiko; UENO, Takafumi
3G3-11* Young Scholar Lectures of CSJ Development of asymmetric catalysts with proteins as versatile ligands (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ○FUJIEDA, Nobutaka

Chair: NAKATA, Eiji (11:20~12:20)

- * 11:10-11:20: interval for laptop PC connection.(3G3-15, 3G3-17, 3G3-19)
3G3-15** N-Glycoconjugated albumin-Ru catalytic complex for localized drug synthesis (Biofunc. Syn. Chem. Lab., RIKEN) ○NASIBULLIN, Igor; EDA, Shohei; TANAKA, Katsumori
3G3-17** Monoclonal Antibodies as a Designed Protein Scaffold for Chiral Separation and Asymmetric Catalysis (Grad. Sch. Sci., Osaka Univ.) ○ADACHI, Takuma; ODAKA, Tomoki; HARADA, Akira; YAMAGUCHI, Hiroyasu
3G3-19* A method to possess an enzymatic function to an antibody (V) (RPP., Oita Univ.) ○HIFUMI, Emi; AKIYOSHI, Tuko; UDA, Taizo

Monday, March 18, PM

Chair: MATSUO, Takashi (13:30~14:30)

- * 13:20-13:30: interval for laptop PC connection.(3G3-28, 3G3-29, 3G3-30, 3G3-31, 3G3-33)
3G3-28 Development of ELP-based nanoparticles displaying proteins on their surface via isopeptide bond (Sch. Life Sci. Tech., Tokyo Tech.) ○YAMAGUCHI, Jun; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry
3G3-29 Structure effect of artificial protein needle on the membrane penetration (Sch. Life Sci. Tech., Tokyo Tech.) ○NIWASE, Kento; TSUBOKAWA, Daisho; TAKAI, Natsumi; FURUTA, Tadaomi; KAWANO, Ryuji; UENO, Takafumi
3G3-30 Analysis of the assembly formation of needle-like protein from bacteriophage T4 by using high speed atomic force microscopy (Sch. Life Sci. Tech., Tokyo Tech.) ○KIKUCHI, Kosuke; NIWASE, Kento; UENO, Takafumi
3G3-31** Enhanced enzymatic activity with a packed assembling of enzyme (IAE, Kyoto Univ.) ○DINH, Huyen; NAKATA, Eiji; KINOSHITA, Masahiro; MORII, Takashi
3G3-33* Reaction of enzyme cascades assembled in 3D DNA nanostructure (IAE, Kyoto Univ.) ○LIN, Peng; DINH, Huyen; THANG, Minh Nguyen;

NAKATA, Eiji; MORII, Takashi

Chair: HOHSAKA, Takahiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3G3-35, 3G3-37, 3G3-38, 3G3-39, 3G3-40)

3G3-35[#] Design of fluorescent sensor detecting nitric oxide using auto-fluorescent protein (IAE, Kyoto Univ.) ○TAJIMA, Shunsuke; NAKATA, Eiji; SAKAGUCHI, Reiko; SAIMURA, Masayuki; MORI, Yasuo; MORII, Takashi**3G3-37[#]** Enzyme-Mediated Dual-Targeted-Assembly Achieves Synergetic Anticancer Effect (OIST) ○DINGZE, Mang; XIA, Wu; YE, Zhang**3G3-38[#]** Construction of DNA-protein Hybrid Molecule with Multiple Targeting Abilities for Cancer Immunotherapy (Sch. Life Sci. Tech., Tokyo Tech.) ○ZHONG, Yixue; MASHIMO, Yasumasa; YANAGIDA, Yasuko; MIE, Masayasu; KOBATAKE, Eiry**3G3-39** Inducing differentiation of iPS cells by transduction of transcription factor protein. (Sch. Life Sci. Tech., Tokyo Tech.) ○CHUMAN, Shinnosuke; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry**3G3-40** The effects of halogenation of bisphenol A on binding and biological activity to peroxisome proliferator-activated receptor γ (Fac. Arts and Sci., Kyushu Univ.) OKUBO, Takashi; KESAMARU, Hitoshi; LIU, Xiaohui; MATSUSHIMA, Ayami; ○SUYAMA, Keitaro; NOSE, Takeru

Chair: KOBATAKE, Eiry (15 : 50~16 : 30)

* 15:40-15:50: interval for laptop PC connection.(3G3-42, 3G3-43, 3G3-45)

3G3-42 Complementary interaction with peptide amphiphiles promotes the delivery of drug molecule into cancer cells (Kyushu University Graduate School of Engineering) ○OBAYASHI, Hiroki; WAKABAYASHI, Rie; KAMIYA, Noriho; GOTO, Masahiro**3G3-43[#]** CoA biosynthesis in hyperthermophilic archaea (Grad. Sch. Eng., Kyoto Univ.) SHIMOSAKA, Takahiro; TOMITA, Hiroya; YOKOOJI, Yuusuke; ISHIBASHI, Takuya; ○ATOMI, Haruyuki**3G3-45** Thermostabilization of oxidoreductase by chimerization with a NAD (P) binding domain derived from hyperthermophilic archaeon (Fac. Eng., Tokyo Univ. of Agri. and Technol.; Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAKANO, Tatsuya; TAKEDA, Kouta; YOHTA, Masafumi; OHNO, Hiroyuki; NAKAMURA, Nobuhumi

Protein (Modification)

Chair: HAYASHI, Gosuke (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3G3-47, 3G3-48, 3G3-49, 3G3-50, 3G3-52)

3G3-47 Synthesis of antibody-drug conjugate by using N-terminal specific modification method (Sch. Mat. Sci., JAIST) ○MORISHITA, Masaki; WATANABE, Takayoshi; HOHSAKA, Takahiro**3G3-48** Development of Protein N-terminus Selective Modification Reagent Using Triazolecarbaldehyde Derivative (Grad. Sch. Eng., Osaka Univ.) ○INOUE, Nozomu; SUMIYOSHI, Eigo; ONODA, Akira; HAYASHI, Takashi**3G3-49** Structure-Reactivity Relationship of Triazolecarbaldehyde Derivative Reagents for N-terminus Selective Modification of Peptides (Grad. Sch. Eng., Osaka Univ.) ○SUMIYOSHI, Eigo; INOUE, Nozomu; ONODA, Akira; HAYASHI, Takashi**3G3-50[#]** Sequential conjugation of different synthetic molecules onto protein surface with two cysteine residues based on the reactivities of cysteine thiols (Grad. Sch. Mat. Sci., NAIST) ○MIYAKE, Teruyuki; FUKADA, Yoji; HIROTA, Shun; MATSUO, Takashi

Modification

3G3-52 Development of peptide RCM under aqueous conditions (Peptide Institute, Inc.) ○MASUDA, Shun; TSUDA, Shugo; YOSHIYA, Taku

Protein (Modification)

Chair: SAKAMOTO, Seiji (17 : 50~18 : 40)

* 17:40-17:50: interval for laptop PC connection.(3G3-54, 3G3-56, 3G3-58)

3G3-54[#] Catalytic one-step synthesis of peptide thioacids and application to amino acid linkage (Grad. Sch. Pharm., The Univ. of Tokyo) ○OISAKI, Kounosuke; MATSUMOTO, Takuya; SASAMOTO, Koki; HIRANO, Ryo; KANAI, Motomu**3G3-56[#]** One-Pot Multiple Peptide Ligation Utilizing Triple Function of Thiophenol (Grad. Sch. Eng., The Univ. of Tokyo) ○KAMO, Naoki; HAYASHI, Gosuke; OKAMOTO, Akimitsu**3G3-58** Development of solid-phase chemical ligation using peptide hydrazide (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○ISHIKAWA, Kenya; SATO, Kohei; TSUDA, Shugo; NARUMI, Tetsuo; YOSHIYA, Taku; MASE, Nobuyuki

Tuesday, March 19, AM

Protein

Chair: MURAOKA, Takahiro (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4G3-01, 4G3-03, 4G3-04, 4G3-05)

4G3-01^{*} Reaction dynamics of photoactivated adenylate cyclase (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKASONE, Yusuke; TERAZIMA, Masahide**4G3-03** Stability of decamer structure of phototactic response regulator PixD (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TOKONAMI, Shunrou; NAKASONE, Yusuke; TERAZIMA, Masahide**4G3-04** Measurement of protein diffusion with high time resolution using a photochrome-labeling method (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKARAMOTO, Shunki; NAKASONE, Yusuke; TERAZIMA, Masahide**4G3-05[#]** Effect of Nanoscale Interactions of Hydrophobic Functional Groups on Anomalous Molecular Dynamics in Water (Grad. Sch. Eng., The Univ. of Tokyo) ○ITO, Yoshimitsu; FU, Tengfei; HAO, Xing; SILVER, Eric; CHEN, Shuo; AIDA, Takuzo

Chair: KATO, Tamaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4G3-08, 4G3-09, 4G3-10, 4G3-12)

4G3-08 Accelerating Effects of Thiol-Urea Conjugated Compounds on Oxidative Protein Folding (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; IMRAM, Tohoku Univ.) ○OKADA, Shunsuke; MATSUSAKI, Motonori; ARAI, Kenta; HIDAKA, Yuji; INABA, Kenji; OKUMURA, Masaki; MURAOKA, Takahiro**4G3-09** In cell crystallization of peptide fusion polyhedrin (Sch. Life Sci. Tech., Tokyo Tech.) ○MARIKO, Kojima; SATOSHI, Abe; TAKAFUMI, Ueno**4G3-10[#]** Structural insights into the catalytic mechanism of carbon monoxide biosynthesis for the maturation of NiFe-hydrogenases (LCCMS, IMS; NINS EXCELLS) ○MURAKI, Norifumi; AONO, Shigetoshi**4G3-12[#]** Oligomerization of Azurin from *Alcaligenes xylosoxidans* and Characterization of Its Dimer (Grad. Sch. Sci. & Tech., NAIST) ○CAHYONO, Robby Noor; YAMANAKA, Masaru; NAGAO, Satoshi; HIROTA, Shun

Protein (Sensing)

Chair: ABE, Satoshi (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(4G3-15, 4G3-16, 4G3-17)

4G3-15 The effect of a newly designed branched amino acid containing substrate peptide for chymotrypsin activity (Grad. Sch. Life Sci. Sys. Eng., KIT) ○YUFU, Tomoki; SATO, Daisuke; KATO, Tamaki**4G3-16** Detection of thrombin activity by changing fluorescence of pyrene (Grad. Sch. Life Sci. Sys. Eng., KIT) ○KAWABATA, Taiki; SATO, Daisuke; KATO, Tamaki**4G3-17[#]** Engineering of lactate oxidase for development of quasi-direct electron transfer type lactate sensor (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HIRAKA, Kentaro; TSUGAWA, Wakako; ASANO, Ryutarou; KOJIMA, Katsuhiko; IKEBUKURO, Kazunori; SODE, Koji

Room G4

Bldg. 3 365

Biofunctional Chemistry ; Biotechnology

Saturday, March 16, AM

Nucleic Acid

Chair: OHKUBO, Akihiro (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1G4-01, 1G4-02, 1G4-03, 1G4-04, 1G4-05, 1G4-06)

1G4-01 Development of a novel artificial nucleic acid having an oxanorbornane skeleton (Sch. Pharm., Osaka Univ.) ○KOMINE, Hibiki; MORI, Shohei; MORIHIRO, Kunihiko; ISHIDA, Kenta; OKUDA, Takumi; AOYAMA, Hiroshi; KASAHARA, Yuuya; YAMAGUTI, Takao; OBIKA, Satoshi**1G4-02** Synthesis and Properties of Oligospermine and 4' -aminoalkyl-modified siRNAs (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○KATSURAGI, Yui; KAWADE, Miwa; NAKAMOTO, Kosuke; KAJINO, Ryohei; MAEDA, Yusuke; UENO, Yoshihito**1G4-03** Synthesis and Properties of siRNA conjugated with Novel Peptides using previous Octaarginine conjugation approach (Fac. Applied Bio. Sci., Gifu Univ.) ○MATSUBARA, Miho; HONDA, Kenji; KAJINO, Ryohei; MAEDA, Yusuke; UENO, Yoshihito**1G4-04** Specific binding between metal ion and mismatched base pair

involving 5-fluorouracil (Fac. Sci., TUS; Fac. Eng., Kanagawa Univ.)
 ○ADACHI, Saki; ARAKAWA, Fumihiro; ONO, Akira; TORIGOE, Hidetaka

1G4-05 Syntheses of acyclic nucleoside triphosphates and substrate properties in polymerase reactions (Grad. Sch. Integrated Basic Sci., Nihon Univ.)
 ○WATAHIKI, Kenta; MURAYAMA, Keiji; ASANUMA, Hiroyuki; KUWAHARA, Masayasu

1G4-06 Novel DNA photo-cross-linking with pyrimidine at a different position from that in the conventional method (JAIST) ○ISHIDA, Kenta; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo

Chair: UENO, Yoshihito (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1G4-08, 1G4-09, 1G4-11, 1G4-12)

1G4-08 Development of a new method for synthesis of oligonucleotides on CPG resins containing activators (Grad. Sch. Biosci. Biotech., Tokyo Tech.)
 ○MIYAKE, Yu; IKEDA, Kosuke; NISHIZAWA, Syuhei; OHKUBO, Akihiro

1G4-09** Chemical synthesis of U snRNA containing TMG cap derivatives (Sch. Life Sci. Tech., Tokyo Tech.) ○NISHIZAWA, Shuhei; UEHARA, Renjiro; OHKUBO, Akihiro

1G4-11 Development of Fluorescent Thymine Analogue and Construction of New FRET System (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HIRASHIMA, Shingo; HAN, Ji Hoon; PARK, Soyung; SUGIYAMA, Hiroshi

1G4-12** Facile synthesis of oligonucleotides modified with guanidine-bridged nucleic acids (Grad. Sch. Pharmaceutical Sci., Osaka Univ.) ○HORIE, Naohiro; YAMAGUCHI, Takao; OBIKA, Satoshi

Chair: TANABE, Kazuhito (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1G4-15, 1G4-16, 1G4-17, 1G4-18, 1G4-19, 1G4-20)

1G4-15 Efficient synthesis of guanosine tetralophosphate utilizing phosphoramidite compounds (Sch. Life Sci. Tech., Tokyo Tech.) ○SUGIYAMA, Daiki; OHNO, Kentaro; TOMORI, Takahito; MASAKI, Yoshiaki; SEIO, Kohji

1G4-16 Withdrawn

1G4-17 Synthesis and binding properties of the 7-position modified naphthylidene carbamate dimer (ISIR, Osaka Univ.) ○SAKURABAYASHI, Shuhei; YAMADA, Takeshi; NAKATANI, Kazuhiko

1G4-18 Development of Novel Chemical Ligation Reaction for Oligonucleotides. (Grad. Sch. Sci., Nagoya Univ.) ○KOKUBO, Kengo; YAMAOKA, Kazuki; NAKAMOTO, Kousuke; TOMOIKE, Fumiaki; KIMURA, Yasuaki; ABE, Hiroshi

1G4-19 Stereocontrolled synthesis of PB/PS-chimeric DNA (Fac. Pharm. Sci., TUS) ○HANZAWA, Sota; KOGURE, Tomoki; SAITO, Tatsuya; NUKAGA, Yohei; HARA, Rintaro; SATO, Kazuki; WADA, Takeshi

1G4-20 Synthesis of profluorescent dye linked oligonucleotides (Dept. of Material & Life Chem., Kanagawa Univ.) ○SANEYOSHI, Hisao; YAMAMOTO, Yuta; OHTA, Takayuki; ONO, Akira

Saturday, March 16, PM

Chair: SANEYOSHI, Hisao (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1G4-28, 1G4-29, 1G4-30, 1G4-31, 1G4-32, 1G4-33)

1G4-28 The syntheses and characterization of oligodeoxynucleotides bearing hydrophobic fluorescence molecules (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KANDA, Mie; KURIHARA, Ryohsuke; TANABE, Kazuhito

1G4-29 Synthesis of oligodeoxynucleotides bearing hydrophobic BODIPY fluorophore at nucleobase and their performances in living cells (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YAMASHITA, Haruka; ASAH, Wataru; KURIHARA, Ryohsuke; TANABE, Kazuhito

1G4-30 Hypoxia-Triggered Activation of Anticancer Drug via Selective Azo Reduction (Grad. Sch. Eng., The Univ. of Tokyo) ○ISHINABE, Takuro; MORIHIRO, Kunihiko; OKAMOTO, Akimitsu

1G4-31 Synthesis and pH sensitivity of amphiphilic oligodeoxynucleotides bearing imine bond (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○TOMIMIZU, Shunichiro; YAMAGUCHI, Masato; KURIHARA, Ryohsuke; TANABE, Kazuhito

1G4-32 Synthesis of Carbocyclic Nucleosides Using Julia-Kocienski Reagents Derived From Nucleosides (Fac. Eng., Gifu Univ.; Gifu Univ. G-CHAIN) ○OKA, Natsuhisa; KANDA, Mayuka; FURUZAWA, Minami; ANDO, Kaori

1G4-33 Oligoribonucleotide analogues containing triazole linkers: multiple strand formation and the thermodynamic analysis (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST) ○SUZUKI, Takeru; FUJINO, Tomoko; OOI, Tsugumi; ISOBE, Hiroyuki

Chair: TAKADA, Tadao (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1G4-35, 1G4-37, 1G4-38, 1G4-39, 1G4-40)

1G4-35** Evaluation of electron transfer in DNA by the electron-donating group containing pyrene modified nucleic acids (Grad. Sch. Pharmaceutical Sci., Osaka Univ.) ○OKUDA, Takumi; KASAHARA, Yuuya; OBIKA, Satoshi

1G4-37 Effects of surrounding environments on guanine photooxidation via DNA-mediated electron transfer (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○TANAKA, Makiko; SAKURAI, Shunsuke; ESUMI, Mayu

1G4-38 Development of functional molecules to alkylate G-quadruplex (IMRAM, Tohoku Univ.; Grad. Sch. Sci., Tohoku Univ.) ○ISHIKAWA, Shunya; HAZEMI, Eurika Madoka; ONIZUKA, Kazumitsu; NAGATSUGI, Fumi

1G4-39 Development of artificial nucleic acids to induce the base flipping out and unique photo-reaction (IMRAM, Tohoku Univ.) ○ONIZUKA, Kazumitsu; ISHIDA, Kei; MANO, Eriko; NAGATSUGI, Fumi

1G4-40 Synthesis of N,N'-diheteroaryl guanidine derivatives and evaluation of its binding to GGCCCC repeat DNA (ISIR, Osaka Univ.) ○MURAKAMI, Eitaro; SHIBATA, Tomonori; NAKATANI, Kazuhiko

Chair: TANAKA, Makiko (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1G4-42, 1G4-43, 1G4-44, 1G4-45, 1G4-46, 1G4-47)

1G4-42 Signal-On Electrochemical Nucleic Acid Sensors for Detection of Target Nucleic Acids (Grad. Sch. Eng., Univ. of Hyogo) ○NISHIMURA, Hiroki; TAKADA, Tadao; YAMASHITA, Tomoya; NAKAMURA, Mitsunobu; YAMANA, Kazushige

1G4-43 Emission properties of nucleic acids possessing stacked cyanine dyes within base pair stacks (Grad. Sch. Eng., Univ. of Hyogo) ○NISHIDA, Koma; TAKADA, Tadao; HONDA, Yurica; NAKAMURA, Mitsunobu; YAMANA, Kazushige

1G4-44 Synthesis of small molecules that bind to mismatch DNA and binding studies with CTG repeat (ISIR, Osaka Univ.) ○OKAMOTO, Tatsumasa; NAKATANI, Kazuhiko

1G4-45 Cooperative binding of short oligonucleotides with repetitive sequence (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○KITAMURA, Yusuke; NAGAI, Koki; KATSUDA, Yousuke; IHARA, Toshihiro

1G4-46 Construction of stimuli-responsive DNzyme and its logic-gate responses (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○BANNO, Ayaka; HIGASHI, Sayuri; SHIBATA, Aya; IKEDA, Masato

1G4-47 Visible light regulation of gene expression by using 10-23 DNzyme (Grad. Sch. Eng., Nagoya Univ.) ○KAMIYA, Yukiko; ARIMURA, Yu; OOI, Hideaki; KATO, Kenjiro; LIANG, Xingguo; ASANUMA, Hiroyuki

Chair: KITAMURA, Yusuke (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1G4-49, 1G4-50, 1G4-51, 1G4-52, 1G4-54)

1G4-49 Highly efficient translation of mRNAs hybridized with complementary oligo DNAs (Sch. Mat. Sci., JAIST) ○WATANABE, Takayoshi; MORISHITA, Masaki; HOHSAKA, Takahiro

1G4-50 Translational control by secondary-structure formation in mRNA (Grad. Sch. Sci., Nagoya Univ.) ○KAWAGUCHI, Daisuke; SHIMIZU, Saaya; KODAMA, Ayumi; ABE, Naoko; TOMOIKE, Fumiaki; KIMURA, Yasuaki; ABE, Hiroshi

1G4-51 Rolling circle translation of chemically synthesized circular RNA (Grad. Sch. Sci., Nagoya Univ.) ○NAKAMOTO, Kosuke; ABE, Naoko; ABE, Hiroshi

1G4-52** Light-driven DNA amplification based on toeholdless strand displacement reaction assisted by a cationic polymer (Grad. Sch. Eng., Nagoya Univ.) ○CHENG, Bohao; KASHIDA, Hiromu; SHIMADA, Naohiko; MARUYAMA, Atsushi; ASANUMA, Hiroyuki

1G4-54 Reversible DNA Strand Displacement Reactions Driven by Metal Complexation of 5-Hydroxyuracil Nucleobases (Grad. Sch. Sci., The Univ. of Tokyo) ○MORI, Keita; NISHIYAMA, Kotaro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro

Sunday, March 17, AM

Chair: YAMAMOTO, Yasuhiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2G4-01, 2G4-03, 2G4-04, 2G4-05, 2G4-06)

2G4-01** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (48) :Imaging of crowding in cells by using guanine-quadruplex DNA (FIBER, Konan Univ.) ○TAKAHASHI, Shuntaro; YAMAMOTO, Johtaro; KITAMURA, Akira; KINJO, Masataka; SUGIMOTO, Naoki

2G4-03 Construction and Application of Bipyridine-Functionalized G-quadruplexes (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YANAGITANI, Rio; SAKASHITA, Sohei; YUM, Jihye; PARK, Soyung; SUGIYAMA, Hiroshi

2G4-04* Investigation of DNA Quadruplex-Duplex Hybrids for Asymmetric Synthesis (Fac. Sci., Kyoto Univ.) ○YUM, Jihye; PARK, Soyung; SUGIYAMA, Hiroshi

2G4-05 Development and Application of Metal-binding DNA G-quadruplexes (Fac. Sci., Kyoto Univ.) ○FUKUMOTO, Koyuki; MATSUI, Haruka; PARK, Soyung; SUGIYAMA, Hiroshi

2G4-06* Nucleic Acids Chemistry beyond the Watson-Crick Double Helix(50): Phase separation of RNA/peptides in neurodegenerative diseases is promoted by chemical environment changes in cells (FIBER, Konan Univ.) ○TATEISHI-KARIMATA, Hisae; TENG, Ye; OHYAMA, Tatsuya; SUGIMOTO, Naoki

Chair: TAKAHASHI, Shuntaro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G4-08, 2G4-10, 2G4-11, 2G4-12, 2G4-13)
- 2G4-08^{##}** Improving stability and anticoagulant activity of thrombin binding aptamer by incorporation of 8-trifluoromethyl-2'-deoxyguanosine (Fac. Med., Univ. of Miyazaki) ○BAO, Hongliang; ISHIZUKA, Takumi; XU, Yan
- 2G4-10** Effect of Quadruplex Topology on the Nature of DNA Enzyme Possessing Heme (Sch. Sci. Eng., Univ. of Tsukuba) ○YAMADA, Kao; ARAKAWA, Kazuki; SHINOMIYA, Ryosuke; ARAKI, Haruka; SHIBATA, Tomokazu; MOMOTAKE, Atsuya; YAMAMOTO, Yasuhiko
- 2G4-11** Nature of Axial Water Molecule bound to Heme Iron Atom of DNA Enzyme Possessing Heme (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○YAMAMOTO, Yasuhiko; SHINOMIYA, Ryosuke; ARAKI, Haruka; SHIBATA, Tomokazu; MOMOTAKE, Atsuya; YANAGISAWA, Sachiko; OGURA, Takashi; SUZUKI, Akihiro; NEYA, Saburo; HEMMI, Hikaru
- 2G4-12** Elucidation of Molecular Mechanism for Peroxidase Activity of DNA Enzyme Possessing Heme (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SHINOMIYA, Ryosuke; MOMOTAKE, Atsuya; YANAGISAWA, Sachiko; SUZUKI, Akihiro; NEYA, Saburo; KOTANI, Hiroaki; KOJIMA, Takahiko; YAMAMOTO, Yasuhiko
- 2G4-13** Synthesis and evaluation of linear hexaoxazoles as anti-parallel type topology-selective G-quadruplex stabilizing ligands (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SASAKI, Shogo; MATSUDA, Misako; MA, Yue; NAGASAWA, Kazuo

Chair: ZOU, Tingting (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G4-15, 2G4-16, 2G4-17, 2G4-18)
- 2G4-15** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (53) : Phase separation induced by specific interactions between RNA G-quadruplexes and cationic peptides (FIRST, Konan Univ.) ○KOHATA, Kazuki; KAWAUCHI, Keiko; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 2G4-16** Improvement of binding ability of the Cas9 aptamer using G-quadruplex binding ligand (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SASAKI, Ikkei; NISHIO, Maui; TSUKAKOSHI, Kaori; MA, Yue; NAGASAWA, Kazuo; YAMAGISHI, Ayana; KATO, Yoshio; NAKAMURA, Chikashi; IKEBUKURO, Kazunori
- 2G4-17** Evaluation of the effect of DNA methylation on i-motif structure locating on the promoter region (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OSHIKAWA, Daiki; TSUKAKOSHI, Kaori; IKEBUKURO, Kazunori
- 2G4-18^{##}** CSJ Award for Outstanding Young Women Chemists
Elucidation for mechanism of diseases caused by non-canonical structures of DNA and regulation for DNA function (FIBER, Konan Univ.) ○TATEISHI-KARIMATA, Hisae

Sunday, March 17, PM

Chair: TATEISHI-KARIMATA, Hisae (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(2G4-29, 2G4-30, 2G4-31, 2G4-32, 2G4-33)
- 2G4-29^{##}** Interaction of cyclic naphthalene diimide derivatives with tetraplex DNA under molecular crowding condition (Grad. Sch. Eng., KIT) ○ZOU, Tingting; YASUKAWA, Rui; SATO, Shinobu; TAKENAKA, Shigeori
- 2G4-30** Synthesis and evaluation of light-up G4 ligands for detection of G-quadruplex (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○WAKABAYASHI, Yuki; MA, Yue; IIDA, Keisuke; SAITO, Ryota; NAGASAWA, Kazuo
- 2G4-31** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (54) : Development of G-quadruplex and i-Motif selective ligands. (FIRST, Konan Univ.) ○IMAGAWA, Yoshiki; KOHATA, Kazuki; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 2G4-32** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (55) : One-pot screening of DNA G-quadruplex-selective ligands (FIRST, Konan Univ.) ○NAGANO, Kaho; KINUGASA, Shino; HAGIHARA, Shinya; SATO, Ayato; KAWAUCHI, Keiko; TATEISHI, Hisae; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 2G4-33** Elucidation of G-quadruplex stabilization mechanism by Nucleolin (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MASUZAWA, Tatsuki; OYOSHI, Takanori

Monday, March 18, AM

Chair: TAKEZAWA, Yusuke (9 : 10 ~ 10 : 00)

- * 9:00-9:10: interval for laptop PC connection.(3G4-02, 3G4-04, 3G4-05)
- 3G4-02^{##}** Three DNA binding systems with cooperativity and versatility mimicking that of the transcription factor pairs (Fac. Sci., Kyoto Univ.) ○YU, Zutaao; BANDO, Toshikazu; LY, Danith H.; SUGIYAMA, Hiroshi
- 3G4-04** Synthesis and evaluation of new RNA-binding naphthyridine derivatives having piperazine linker. (ISIR, Osaka Univ.) ○KOBAYASHI, Shotaro; LU, Yihuan; DONO, Tikara; NAKATANI, Kazuhiko
- 3G4-05^{##}** Unnatural base pairs with "anti-syn" like glycosidic conformation (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○MORIHIRO, Kunihiko; MORIYAMA, Yuya; OKAMOTO, Akimitsu

Chair: MORIHIRO, Kunihiko (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(3G4-08, 3G4-09, 3G4-10, 3G4-11)
- 3G4-08** Site selective oxidation of pyrimidine bases using naphthyridine carbamate dimer derivatives (ISIR, Osaka Univ.) ○YAGI, Yuki; YAMADA, Takeshi; NAKATANI, Kazuhiko
- 3G4-09^{##}** Metal-dependent regulation of DNA duplex stability based on the metal complexation of 5-carboxyuracil nucleobases (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKEZAWA, Yusuke; SUZUKI, Akira; NAKAYA, Manabu; SHIONOYA, Mitsuhiko
- 3G4-10^{##}** Recognition of bulge-mismatched dsDNA's by a three-carbon atom linked 2-amino-1,8- naphthyridine dimer (ISIR, Osaka Univ.) ○DAS, Bimolendu; NAKATANI, Kazuhiko
- 3G4-11^{##}** Tuning the reactivity of crosslink formation for sequence-selective DNA-protein conjugation (IAE, Kyoto Univ.) ○ZHANG, Zhengxiao; NAKATA, Eiji; THANG, Nguyen Minh; MORII, Takashi

Chair: PARK, Soyoung (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(3G4-14, 3G4-15, 3G4-16, 3G4-17)
- 3G4-14^{##}** Metal-dependent orthogonal regulation of DNzyme activities by the formation of Cu(II)- and Hg(II)-mediated base pairs (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAMA, Takahiro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 3G4-15^{##}** Research on NCD (Naphthyridine Carbamate Dimer) Linked Arene-Ruthenium(II) Half-Sandwich Complexes (Sch. Sci., Osaka Univ.) ○NI, Lu; YAMADA, Takeshi
- 3G4-16** Withdrawn
- 3G4-17^{##}** Preparation of hexaplex by using artificial nucleic acid (Grad. Sch. Eng., Nagoya Univ.) ○KASHIDA, Hiromu; HATTORI, Yuhei; NAKAMURA, Kento; ASANUMA, Hiroyuki

Monday, March 18, PM

Chair: KATSUDA, Yousuke (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(3G4-26, 3G4-27, 3G4-28, 3G4-30)
- 3G4-26** Development of novel DNA photo-cross-linker with visible light and its application for regulation of gene expression in living cells (Sch. Mat. Sci., JAIST) ○MIHARA, Junichi; SASAGO, Shinobu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 3G4-27** Development of intracellular condition-responsive linker for antibody-drug conjugate (Grad. Sch. Sci., Tohoku Univ.) ○OTAKE, Kenta; INAGAKI, Masahito; ARAKI, Yasuyuki; NISHIZIMA, Masaki; WADA, Takehiko
- 3G4-28^{##}** Design and synthesis of intracellular condition responsive artificial nucleic acids for the catalytic oligonucleotide therapeutics (IMRAM, Tohoku Univ.) ○INAGAKI, Masahito; UNABARA, Daisuke; ARAKI, Yasuyuki; ISHIBASHI, Satoru; YOKOTA, Takanori; WADA, Takehiko
- 3G4-30^{##}** Inhibition of PNA/PNA Self-dimer Formation by Cationic Guanine (Grad. Sch. Sci., Nagoya Univ.) ○HIBINO, Masaki; AIBA, Yuichiro; SHOJI, Osami; WATANABE, Yoshihito

Chair: AIBA, Yuichiro (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3G4-33, 3G4-34, 3G4-35, 3G4-37)
- 3G4-33** Cellular uptake of amphiphilic oligodeoxynucleotides bearing alkyl chain at uridine base (Aoyama Gakuin Univ.) ○KAINUMA, Reina; KURIHARA, Ryosuke; TANABE, Kazuhito
- 3G4-34^{##}** Cellular uptake properties of the polyunsaturated fatty acids conjugated oligonucleotides (Grad. Sch. Eng., The Univ. of Tokyo) ○KARN SOMWAN, Wiranpat; OKAMOTO, Akimitsu
- 3G4-35^{##}** Multiplexed detection of nucleic acids using 19F NMR chemical shift based on DNA photo-cross-linking of 3-vinylcarbazole derivatives (JAIST) ○NAKAMURA, Shigetaka; TAKASHIMA, Yasuharu; FUJIMOTO, Kenzo
- 3G4-37^{##}** Development of a novel protein expression control method by constructing RNA higher-order structure (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○KATSUDA, Yousuke; SATO, Shin-ichi; KAMURA, Takuto; KITAMURA, Yusuke; HAGIHARA, Masaki; IHARA, Tohishiro

Chair: KOBORI, Akio (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(3G4-40, 3G4-41, 3G4-42, 3G4-44)
- 3G4-40** Comprehensive sequencing analysis of RNA sequences of which cleavage by Dicer is inhibited by small molecule binding (ISIR, Osaka Univ.) ○TAKASHIMA, Yusuke; MURATA, Asako; NAKATANI, Kazuhiko
- 3G4-41** Imaging analysis of EGFR mutated cell with Peptide Nucleic Acid based probe (Health Research Inst., AIST) ○SHIGETO, Hajime; OHTSUKI, Takashi; AKIYAMA, Yasuto; YAMAMURA, Shohei
- 3G4-42^{##}** Development of 2'-β Seleno Nucleoside Analogs as Irreversible Inhibitors for Viral Reverse Transcriptase (Grad. Sch. Sci., Nagoya Univ.) ○KIMURA, Yasuaki; NIIMI, Yushi; KATAKURA, Hideo; TOMOIKE, Fumiaki; SUZUKI, Tetsuro; MURAKAMI, Tsutomu; KODAMA, Eiichi; ABE, Hiroshi

3G4-44** Single-cell genomics of sponge-associated bacteria synthesizing auranoside (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KOGAWA, Masato; NISHIKAWA, Yohei; HOSOKAWA, Masahito; PIEL, Joern; TAKEYAMA, Haruko

Chair: NAKANO, Shun (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(3G4-47, 3G4-48, 3G4-49, 3G4-51, 3G4-52)

3G4-47 Label-free in situ Monitoring of DNA Hybridization Chain Reaction using Sequence-selective Minor-groove Binding Fluorophores (Grad. Sch. Sys. Eng., Wakayama Univ.) YAMADA, Rikuto; ○SAKAMOTO, Takashi

3G4-48 Development of stem-loop SERS probes for detection of miRNAs (KIT) ○OTA, Ryo; FUKUSHIMA, Yuki; KOBORI, Akio

3G4-49* Development of convenient detection method of genomic RNAs (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○FUJITA, Hiroto; KATAOKA, Yuka; KASHIWAGI, Yasuyo; KAWASHIMA, Hisashi; KUWAHARA, Masayasu

3G4-51 The pH responsiveness of oligodeoxynucleotides bearing cytosine derivatives with acetylene unit as Raman tag (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○ITAYA, Ryota; ISHIDA, Runa; KURIHARA, Ryohsuke; TANABE, Kazuhito

3G4-52 Synthesis of cytosine derivatives with Raman tag and tracking of small structural change of oligodeoxynucleotides (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ISHIDA, Runa; ITAYA, Ryota; KURIHARA, Ryohsuke; TANABE, Kazuhito

Chair: SAKAMOTO, Takashi (17 : 50~18 : 50)

* 17:40-17:50: interval for laptop PC connection.(3G4-54, 3G4-56, 3G4-57, 3G4-58)

3G4-54** Specific detection of target proteins using fluorescence molecular rotors N³-modified thioflavin T derivatives (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○KATAOKA, Yuka; FUJITA, Hiroto; AFANASEVA, Arina; NAGAO, Chioko; MIZUGUCHI, Kenji; KASAHARA, Yuuya; OBIKA, Satoshi; KUWAHARA, Masayasu

3G4-56* Development of TFO linear probe involving perylene derivatives for detection of duplex DNA (Grad. Sch. Eng., Nagoya Univ.) ○CHEN, Yanglingzhi; MURAYAMA, Keiji; ASANUMA, Hiroyuki

3G4-57 Development of fluorescent barcode with nucleic acids for comprehensive imaging of biomolecules in cells (Grad. Sch. Eng., Nagoya Univ.) ○MAKINO, Koki; KASHIDA, Hiromu; ASANUMA, Hiroyuki

3G4-58** Fluorescent ribonucleotide sensors for selective detection of ATP and ADP (IAE, Kyoto Univ.) ○NAKANO, Shun; SHIMIZU, Musashi; DINH, Huyen; MORII, Takashi

Tuesday, March 19, AM

Chair: ENDO, Masayuki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4G4-01, 4G4-02, 4G4-03, 4G4-04, 4G4-05, 4G4-06)

4G4-01 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (56) : Combined effects of molecular crowding and cytosine methylation on structural stability of DNA duplex (FIRST, Konan Univ.) ○YUI, Sugitani; YU-KI, Zouzumi; NAOKI, Sugimoto; DAISUKE, Miyoshi

4G4-02 Visualization of cascade reaction between enzyme and electroless plating (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ISHIKAWA, Shumpei; ISLAM MD., Sirajul; AKAMATSU, Naohide; OHYA, Yuichi; KUZUYA, Akinori

4G4-03 Development of a DNA origami DDS carrier (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MANO, Yuki; ISHIKAWA, Syumpei; YAMASAKI, Yuta; OHYA, Yuichi; KUZUYA, Akinori

4G4-04 Development of light harvesting system using DNA with multiple fluorophores (Grad. Sch. Eng., Nagoya Univ.) KASHIDA, Hiromu; ○AZUMA, Hidenori; ASANUMA, Hiroyuki

4G4-05 Chiral amplification by using achiral nanostructure of artificial nucleic acid (Grad. Sch. Eng., Nagoya Univ.) ○NISHIKAWA, Keiji; KASHIDA, Hiromu; ASANUMA, Hiroyuki

4G4-06* Cumulative deformation of a linear DNA origami structure consisting of tension-adjustable modules (Tohoku Univ.; Grad. Sch. Eng., Tohoku Univ.) ○SUZUKI, Yuki; MIZUNO, Kohei; KAWAMATA, Ibuki; MURATA, Satoshi

Chair: SUZUKI, Yuki (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(4G4-08, 4G4-10, 4G4-12)

4G4-08* Nanoliposomes on DNA scaffolds for enclosing proteins (IAE, Kyoto Univ.) ○KONISHI, Hiroaki; DINH, Huyen; WAKISAKA, Tomohiko; NAKATA, Eiji; NAKANO, Syun; MORII, Takashi

4G4-10** Development of novel stimuli-responsive supramolecular hydrogel containing artificial nucleic acids (Grad. Sch. Eng., Nagoya Univ.) ○MURAYAMA, Keiji; SHIGEMATSU, Yuuki; ASANUMA, Hiroyuki

4G4-12* Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (49): Validation of the nearest-neighbor model for self-complementary DNA duplex under molecular crowding (FIBER, Konan Univ.) ○GHOSH, Saptarshi; TAKAHASHI, Shuntaro; ENDOH, Tamaki; TATEISHI-KARIMATA, Hisae; SUGIMOTO, Naoki

Chair: MURAYAMA, Keiji (11 : 10~12 : 00)

* 11:00-11:10: interval for laptop PC connection.(4G4-14, 4G4-15, 4G4-16, 4G4-17)

4G4-14 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (51): Quantitative analysis for interaction of DNA with crowding molecules by molecular simulations (FIBER, Konan Univ.) ○OHYAMA, Tatsuya; TATEISHI-KARIMATA, Hisae; TANAKA, Shigenori; SUGIMOTO, Naoki

4G4-15 Single-molecule observation of photoresponsive GAL4 in the DNA nanostructure (Dep. Chem., Sch. Sci., Kyoto Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) RAGHAVAN, Guruprasad; HIDAKA, Kumi; SUGIYAMA, Hiroshi; ○ENDO, Masayuki

4G4-16* Direct observation of nucleosome in DNA frame using high-speed AFM (Dep. Chem., Sch. Sci., Kyoto Univ.) ○FENG, Yihong; HIDAKA, Kumi; HASHIYA, Fumitaka; SUGIYAMA, Hiroshi; ENDO, Masayuki

4G4-17** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (52) : Optimization of RNA conformational switch using RNA-capturing microsphere particle (R-CAMP) (FIBER, Konan Univ.; FIRST, Konan Univ.) ○ENDO, Tamaki; SUGIMOTO, Naoki

Room H1 Bldg. 8 811

Physical Organic Chemistry -Structures and Properties-

Saturday, March 16, AM

Cycloparaphenylene

Chair: SEGAWA, Yasutomo (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H1-01, 1H1-02, 1H1-03, 1H1-04, 1H1-05, 1H1-06)

1H1-01 Transformation of the Cycloadduct of Cycloparaphenylenes with 1,2,4-Triazoline-3,5-dione (ICR, Kyoto Univ.) ○YAMAMOTO, Koji; KAYAHARA, Eiichi; YAMAGO, Shigeru

1H1-02 Ring Expansion Reaction of Cycloparaphenylenes (CPPs) via Transition Metal Mediated Carbon-carbon Bond Activation (ICR, Kyoto Univ.) ○MATSUO, Shuntaro; KAYAHARA, Eiichi; YAMAGO, Shigeru

1H1-03 syntheses of noble thiophene fused cyclo-para-phenylene (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○WAKABAYASHI, Sae; SYOUDA, Takaaki; IMAYOSHI, Ayumi; TSUBAKI, Kazunori

1H1-04 Theoretical study on the ring size dependence of open-shell characters, aromaticities and nonlinear optical properties of carbon nanobelts composed of five- and six-membered rings (Grad. Sch. Eng. Sci., Osaka Univ.) ○YAMANE, Masaki; KISHI, Ryohei; TONAMI, Takayoshi; OKADA, Kenji; NAGAMI, Takanori; NAKANO, Masayoshi

1H1-05 Finite phenine nanotubes with periodic vacancy defects (Fac. Sci., The Univ. of Tokyo) ○FUKUNAGA, Toshiya M.; SUN, Zhe; IKEMOTO, Koki; KORETSUNE, Takashi; ARITA, Ryotaro; SATO, Sota; ISOBE, Hiroyuki

1H1-06 Narrowed segments of helical carbon nanotubes with curved aromatic panels (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST) ○KOGASHI, Kanako; MATSUNO, Taisuke; SATO, Sota; ISOBE, Hiroyuki

Chair: ISOBE, Hiroyuki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H1-08, 1H1-10, 1H1-11)

1H1-08** Synthesis and Properties of Belt- and Möbius-Shaped Cycloparaphenylenes via Rhodium-Catalyzed Intramolecular [2+2+2] Cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Sci., Tokyo Tech.) ○NISHIGAKI, Shuhei; SUGIYAMA, Haruki; HORIKAWA, Ayano; UEKUSA, Hidehiro; SHIBATA, Yu; TANAKA, Ken

1H1-10 Synthesis of Belt-Shaped Molecules Containing Naphthalene Skeletons via Rhodium-Catalyzed Intramolecular [2+2+2] Cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NOGAMI, Juntaro; NISHIGAKI, Shuhei; SHIBATA, Yu; TANAKA, Ken

1H1-11 CSJ Award for Young Chemists Highly Efficient Synthesis and Novel Functions of Cyclic Curved π -Conjugated Molecules (ICR, Kyoto Univ.) ○KAYAHARA, Eiichi

Cyclic oligomer

Chair: KAYAHARA, Eiichi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H1-15, 1H1-16, 1H1-17, 1H1-18, 1H1-19, 1H1-20)

1H1-15 Synthesis of cyclic compounds by utilizing bending structure of precursor (Grad. Sch. Mat. Sci., NAIST) ○SATO, Shizuka; HAYASHI, Hironobu; ARATANI, Naoki; YAMADA, Hiroko

1H1-16 Synthesis and Property of Imidazo-Fused Dehydro[12]annulene Analogue (Fac. Sci. Tech., Keio Univ.; Fac. Sci. Tech., Keio Univ.) ○MIURA, Youhei; YOSHIOKA, Naoki

- 1H1-17[#]** Synthesis of cyclic spirobifluorene oligomers (Grad. Sch. Eng., Osaka Univ.) ○ZHU, Kaige; ONIKI, Junpei; KAMOCHI, Kosuke; TOBISU, Mamoru; AMAYA, Toru
- 1H1-18** Synthesis and Properties of Macrocyclic Compounds Composed of Pyrimidine and Phenothiazine (Grad. Sch. Sci. Tech., Gunma Univ.; Sch. Eng., The Univ. of Shiga Pref.) ○OSHIMA, Yuki; KATO, Shin-ichiro; YAMAMOTO, Koji; NAKAMURA, Yosuke
- 1H1-19** Synthesis and Conformational Properties of Head-to-Tail Dimers of L-Shaped Dibenzopyrrolo[1,2-a][1,8]naphthyridines (Fac. Sci., TUS) ○WARASHINA, Mitsuki; TATENO, Kotaro; ONO, Kosuke; KAWAI, Hidetoshi
- 1H1-20** Oligomeric chiral [2.2]paracyclophane: the simplest duplex helical oligophenylenes (Grad. Sch. Sci., Kitasato Univ.) ○ISHIOKA, Sumire; HASEGAWA, Masashi; HARA, Nobuyuki; IMAI, Yoshitane; MAZAKI, Yasuhiro

Saturday, March 16, PM

Fullerene, buckyball

Chair: AMAYA, Toru (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1H1-28, 1H1-29, 1H1-30, 1H1-31, 1H1-33)
- 1H1-28[#]** Co-crystallization of Sumanene and Its Fluorinated Derivatives (Grad. Sch. Eng., Osaka Univ.) ○LI, Minghong; SAEKI, Akinori; IRITA, Tomomi; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 1H1-29** Self-assembled Metal Complexes Having Discrete Pores Based on Curved Structure of Sumanene. (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○HASEGAWA, Takumi; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 1H1-30** Construction of a Curved π -System by 9-Borafluorene-Mediated Benzannulation of a Strained Alkyne (Lab. Chem. Life Sci., Tokyo Tech.; Fac. of Eng., Okayama Univ. of Sci.) ○ARAI, Yoshito; YOSHIKI, Shoji; OKUDA, Yasuhiro; AKIHIRO, Orita; FUKUSHIMA, Takanori
- 1H1-31^{*}** Conjugated double-helix formation via self-dimerization of diamino-tripyrins (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TANAKA, Takayuki; UMETANI, Masataka; UETA, Kento; OSUKA, Atsuhiko
- 1H1-33[#]** Novel Fullerenes Having C₆₅N and C₆₄N Cages Constructed by Expansion of C₆₀ (ICR, Kyoto Univ.) ○ZHANG, Sheng; HASHIKAWA, Yoshifumi; MURATA, Yasujiro

Chair: OSUKA, Atsuhiko (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1H1-35)
- 1H1-35[#]** CSJ Award for Creative Works Realization of Isolated Chemical Species by Organic Synthesis of Endohedral Fullerenes (ICR, Kyoto Univ.) ○MURATA, Yasujiro
- Chair: TANAKA, Takayuki (15 : 50~17 : 00)
- * 15:40-15:50: interval for laptop PC connection.(1H1-42, 1H1-43, 1H1-44, 1H1-45, 1H1-46, 1H1-47)
- 1H1-42** Cycloaddition of Anthracene to a Cage-Opened C₆₀ Derivative: Probing the Regioselectivity by an Encapsulated H₂ Molecule (ICR, Kyoto Univ.) ○HASHIKAWA, Yoshifumi; MURATA, Yasujiro
- 1H1-43** Complexation Behavior of Open-Cage Fullerene C₆₀ Derivatives with a Lithium Cation (ICR, Kyoto Univ.) ○OKAMOTO, Shu; HASHIKAWA, Yoshifumi; MURATA, Yasujiro
- 1H1-44[#]** Synthesis and Properties of an Open-Cage Fullerene C₆₀ Derivative Encapsulating a Paramagnetic NO Molecule (ICR, Kyoto Univ.) ○HASEGAWA, Shota; HASHIKAWA, Yoshifumi; KATO, Tatsuhisa; MURATA, Yasujiro
- 1H1-45** Synthesis and Derivatization of Silicon Substituted Sumanenes (Grad. Sch. Eng., Osaka Univ.; Shaanxi normal Univ.) ○WANG, Yufeng; NGAMSOMPRASERT, Niti; DANG, Jingshuang; IKUMA, Naohiko; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 1H1-46[#]** Synthesis of Amphiphilic Sumanene Derivatives (Grad. Sch. Eng., Osaka Univ.) ○SHI, Yuqing; UETAKE, Yuta; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 1H1-47^{#*}** A Hybrid of Corannulene and Azacorannulene: Synthesis and Properties of a Highly Curved Nitrogen-Containing Buckyball (Grad. Sch. Eng., The Univ. of Tokyo) ○TOKIMARU, Yuki; ITO, Shingo; NOZAKI, Kyoko

Cycloparaphenylene

Chair: IWANAGA, Tetsuo (17 : 10~18 : 10)

- * 17:00-17:10: interval for laptop PC connection.(1H1-50, 1H1-51, 1H1-52, 1H1-54, 1H1-55)
- 1H1-50** Synthesis of Cycloparaphenylene (CPP) Derivatives through Benzynes Generated from a Tetratriflate [10]CPP (ICR, Kyoto Univ.) ○NAKANO, Masaya; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 1H1-51[#]** Formation and applications of host-guest complexes formed from tetraalkynyl[10]CPP and fullerenes (ICR, Kyoto Univ.) ○SUN, Liansheng; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 1H1-52^{*}** Synthesis of All-benzene Catenane and Trefoil Knot (ERATO, JST; Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○SEGAWA,

- Yasutomo; KUWAYAMA, Motonobu; HIJIKATA, Yuh; FUSHIMI, Masako; NISHIHARA, Taishi; PIRILLO, Jenny; SHIRASAKI, Junya; KUBOTA, Natsumi; ITAMI, Kenichiro
- 1H1-54[#]** Syntheses and Properties of Tetraalkoxycycloparaphenylene Radical Cation and Dication (ICR, Kyoto Univ.) ○KOBAYASHI, Go; KAYAHARA, Eiichi; YAMAGO, Shigeru
- 1H1-55** Synthesis of cyclic π -conjugated molecule with spiro structure (ICR, Kyoto Univ.) ○ONOZUKA, Kota; HASHIMOTO, Sigma; KAYAHARA, Eiichi; YAMAGO, Shigeru

Acene

Chair: HASHIKAWA, Yoshifumi (18 : 20~18 : 50)

- * 18:10-18:20: interval for laptop PC connection.(1H1-57, 1H1-58, 1H1-59)
- 1H1-57** Synthesis and properties of novel aromatic compounds by intramolecular cyclization of ethynylphenyl substituted anthracenes (Sch. Sci., Tokyo Tech.) ○FUJISE, Kei; TSURUMAKI, Eiji; TOYOTA, Shinji
- 1H1-58** Synthesis of highly π -conjugation extended rubicene derivatives by oxidative annulation and their properties (Sch. Sci., Tokyo Tech.) ○KAWAMURA, Masahiko; TSURUMAKI, Eiji; TOYOTA, Shinji
- 1H1-59[#]** Synthesis and properties of diacetylene linked anthraquinone oligomers (Sch. Sci., Tokyo Tech.) ○SAWANAKA, Yuta; TSURUMAKI, Eiji; TOYOTA, Shinji

Sunday, March 17, AM

Oligomer

Chair: IKEMOTO, Koki (9 : 00~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(2H1-01, 2H1-02, 2H1-03, 2H1-04, 2H1-05, 2H1-06, 2H1-07)
- 2H1-01** Synthesis and structural studies of the macrocyclic oligomers of trioxotriangulene (Fac. Eng., Aichi Inst. of Tech.) ○UKAI, Shusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 2H1-02** Synthesis and Photophysical Properties of Dibenzo-fused Carbon-Bridged Oligo(p-Phenylenevinylene)s (Fac. Sci., Kanagawa Univ.) ○WATANABE, Shoya; TSUJI, Hayato
- 2H1-03** Stereo selective oligomerization of optically pure bipyrenol (Fac. Sci., TMU) ○TANAKA, Atsuhiko; SUBAS, Rajbangshi; SUGIURA, Ken-ichi
- 2H1-04** Synthesis and properties of helical and cyclic azulene oligomers (Grad. Sch. Sci., Kitasato Univ.) ○HIGASHIBEPPU, Makoto; TUCHIYA, Takahiro; MAZAKI, Yasuhiro
- 2H1-05** Synthesis of thiacalixarene derivatives toward belt-shaped molecules containing sulfur (Grad. Sch. Sci., Kitasato Univ.) ○MASAFUMI, Ueda; YASUHIRO, Mazaki
- 2H1-06** Synthesis of endo-functionalized oligophenylene cages (Fac. Sci., TUS) ○BABA, Hiroki; SHIRATAKI, Ryutarō; ONO, Kosuke; KAWAI, Hidetoshi
- 2H1-07** Synthesis and Properties of [2.2]Paracyclophane-Containing π -Conjugated Macrocycles (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAMBA, Shunsuke; MORISAKI, Yasuhiro

Chair: KAWASE, Takeshi (10 : 20~11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(2H1-09, 2H1-10, 2H1-11, 2H1-12, 2H1-13)
- 2H1-09** Synthesis of cage-type anthracene macrocyclic compound and complex formation with fullerene (Sch. Sci., Tokyo Tech.) ○KAJIYAMA, Kazuki; TSURUMAKI, Eiji; TOYOTA, Shinji
- 2H1-10** Synthesis and spectroscopic properties of π -extended anthracene bisimide derivatives incorporating diethynylacene units. (Fac. of Sci., Okayama Univ. of Sci.) ○ISHIKAWA, Tenta; NEBAUER, Johannes; RIK R., Tykwinski; IWANAGA, Tetsuo
- 2H1-11** Synthesis and Physical Properties of N-containing Macrocycles Composed of 2,7-Anthrylene and Phenylenediamine units (Fac. of Sci., Okayama Univ. of Sci.) ○KOMORI, Takashi; YAMAUCHI, Tomokazu; MISAKI, Yohji; IWANAGA, Tetsuo
- 2H1-12** Study for the Synthesis of Cyclohexa-2,7-Anthrylene Ethynylene Derivative Based on 1,8-Diaryl-3,6-Diborylanthracene (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MATSUKI, Hironori; OKUBO, Keisuke; KOBAYASHI, Kenji
- 2H1-13[#]** Young Scholar Lectures of CSJ Structural Chemistry and Materials Application of Aromatic Hydrocarbon Macrocycles (Grad. Sch. Sci., The Univ. of Tokyo) ○IKEMOTO, Koki

Sunday, March 17, PM

Chair: IE, Yutaka (14 : 20~15 : 00)

- * 14:10-14:20: interval for laptop PC connection.(2H1-33, 2H1-34, 2H1-35, 2H1-36)
- 2H1-33** Iterative Syntheses and Applications for Unidirectional Insulated Molecular Wires (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○CHOU, Sheng-ying; MASAI, Hiroshi; TERAU, Jun
- 2H1-34** Synthesis of Insulated Molecular Wire Incorporating Spiropyran in the Backbone and Its Properties (Grad. Sch. Arts and Sci., The Univ. of

Tokyo) ○MIYAGISHI, Hiromichi; TAMAKI, Takashi; MASAI, Hiroshi; TERAO, Jun

2H1-35 Study on fluorescence solvatochromism of phenylethynyl type bithiophene derivatives (NIT, Tokyo College) ○OGASAWARA, Fumiya; MACHIDA, Shigeru

2H1-36 Oxidation reactions of dithienothiophene cyclic dimer including an antiaromatic ring (Fac. Sci., TMU) ○HAMAOKA, Hinako; SHIROMA, Shun; NOMURA, Kotohiro; NISHINAGA, Tohru

Organic semiconductor

Chair: TERAO, Jun (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2H1-39, 2H1-40, 2H1-41, 2H1-42, 2H1-43, 2H1-44)

2H1-39 Development of Transparent Organic Hole-Transporting Materials Containing Partially Oxygen-Bridged Triphenylamine Skeletons (ICR, Kyoto Univ.) ○TRUONG, Minh Anh; MURDEY, Richard; WAKAMIYA, Atsushi

2H1-40 Synthesis of new spiro-condensed dithienogermole derivatives and their applications as hole-transporting materials (Grad. Sch. Eng., Hiroshima Univ.) ○KONDO, Keisuke; ADACHI, Yohei; SONG, Myungkwon; JIN, Sung-ho; OHSHITA, Joji

2H1-41 Synthesis of BNO-Containing Polycyclic Aromatic Compounds Exhibiting Pure Green Thermally Activated Delayed Fluorescence (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○IKEDA, Naoya; YOSHIURA, Kazuki; ODA, Susumu; HATAKEYAMA, Takuji

2H1-42 Synthesis, Properties, and Photovoltaic Characteristics of Semiconducting Polymers Based on Thiophene-Annulated Naphthobisthiadiazolene (ISIR, Osaka Univ.; Ishihara Sangyo Kaisha, Ltd.) ○SAKAI, Taishi; MORIYAMA, Taichi; IE, Yutaka

2H1-43 Synthesis and Electronic Properties of Donor-Acceptor Type Molecule to Realize a Thermally Induced Electron Transfer (Grad. Sch. Sci., Osaka Univ.) ○NAGAOKA, Gen; HIRAO, Yasukazu; KUBO, Takashi

2H1-44[#] Synthesis and Properties of Fused Azobenzene-germanium Complexes Showing Near-Infrared Emission (Grad. Sch. Eng., Kyoto Univ.) ○YATEGASHI, Misao; GON, Masayuki; TANAKA, Kazuo

Chair: OHSHITA, Joji (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2H1-46, 2H1-48, 2H1-49, 2H1-50, 2H1-51)

2H1-46[#] Synthesis and Transistor Application of Zigzag-Shaped Diphenanthrothiophene Derivatives (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ○NISHINAGA, Shuhei; MORI, Hiroki; NISHIHARA, Yasushi

2H1-48 Synthesis, Properties, and Photovoltaic Characteristics of π -Conjugated Copolymers Having Fluorine-containing Benzodithiophene-4,8-dione as Acceptor Units (ISIR, Osaka Univ.) ○KISHIMOTO, Yota; IE, Yutaka

2H1-49 Synthesis of self-doped conductive PEDOT bearing phosphonic acid moieties (DAIHACHI CHEM., IND. CO., LTD.; ISIR, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.) ○DAIJO, Masato; HIRAO, Toshikazu; AMAYA, Toru

2H1-50 Synthesis of regioregular polythiophene bearing cyclic siloxane moiety at the side chain (Grad. Sch. Eng., Kobe Univ.) ○KUBOTA, Chihiro; OGURA, Tadayuki; MORI, Atsunori; OKANO, Kentaro; SUZUKI, Toyoko; OKITA, Takumi; FUNAHASHI, Masahiro

2H1-51 Synthesis and structure of regioregular poly (1,4-arylene) bearing a chiral substituent (Grad. Sch. Eng., Kobe Univ.) ○SHIBUYA, Yushin; SUZUKI, Toyoko; OKANO, Kentaro; MORI, Atsunori

Monday, March 18, AM

Heterocyclic compounds

Chair: KOZAKI, Masatoshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3H1-01, 3H1-03, 3H1-05, 3H1-06)

3H1-01[#] Synthesis and properties of peripherally functionalized 2,7-diazapyrene derivatives (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Kyoto Univ.) ○NAKAZATO, Takumi; KAMATSUKA, Takuto; INOUE, Junichi; SAKURAI, Tsunekazu; SEKI, Syu; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro

3H1-03^{*} Synthesis and Properties of Heteroatom-inserted Perylene Bisimide Analogues (Grad. Sch. Eng., Nagoya Univ.) HAYAKAWA, Sakiho; ○FUKUI, Norihito; SHINOKUBO, Hiroshi

3H1-05 Synthesis of expanded azacoronene with antiaromatic π -system (Grad. Sch. Sci., Eng., Ehime Univ.) ○OKI, Kosuke; TAKASE, Masayoshi; MORI, Shigeki; UNO, Hidemitsu

3H1-06 Synthesis and properties of azulene and pyrrole-fused azacoronene analogue (Grad. Sch. Sci., Eng., Ehime Univ.) ○SASAKI, Yoshiki; TAKASE, Masayoshi; OKUJIMA, Tetsuo; MORI, Shigeki; UNO, Hidemitsu

Chair: UNO, Hidemitsu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3H1-08, 3H1-09, 3H1-11, 3H1-12, 3H1-13)

3H1-08 Synthesis of Fused Molecular Systems Composed of TTF and

Naphthazarin, and Application to Positive Electrode Materials for Organic Rechargeable Batteries (Grad. Sch. Sci., Eng., Ehime Univ.)

○YAMAUCHI, Tomokazu; MATSUMOTO, Yuya; YAO, Masaru; MISAKI, Yohji

3H1-09[#] Molecular Design and Properties of Azaphenylene Derivatives with Spatially-separated Frontier Molecular Orbitals (Grad. Sch. Eng., Kyoto Univ.) ○WATANABE, Hiroyuki; TANAKA, Kazuo; CHUJO, Yoshiaki

3H1-11 Synthesis and their complexations of benzimidazole and benzthiazole oligomers (Lab. Chem. Life Sci., Tokyo Tech.) ○OKAWA, Mizuki; AMEMIYA, Fumihito; YAMAMOTO, Kimihisa; IMAOKA, Takane

3H1-12 Synthesis and characterization of cyanuric acid derivatives possessing peripheral intramolecular multi-hydrogen bonding (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○AWATANI, Ayano; SUZUKI, Masaaki

3H1-13 Synthesis and Properties of Trioxotriphenylamine Monoimino-Analogues (Grad. Sch. Sci., Osaka City Univ.) ○YOKOYAMA, Naoki; OKADA, Keiji; KOZAKI, Masatoshi

Chair: KUBO, Takashi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3H1-15)

3H1-15[#] CSJ Award for Creative Works Studies on Dynamic Redox Systems: Construction of Record-breaking Strained Compounds and Development of Unimolecular Memory (Fac. Sci., Hokkaido Univ.) ○SUZUKI, Takanori

Monday, March 18, PM

Nanocarbon

Chair: YAMAGO, Shigeru (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3H1-28, 3H1-29, 3H1-30, 3H1-31)

3H1-28 Synthesis of novel buckybowls via ring expansion of sumanenemone (Grad. Sch. Eng., Osaka Univ.) ○NISHIMOTO, Maiki; UETAKE, Yuta; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3H1-29 The reaction of sumanenemone and trimethylsilyldiazomethane (Grad. Sch. Eng., Osaka Univ.) ○NISHIMOTO, Maiki; UETAKE, Yuta; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3H1-30 Synthesis and physical properties of sumanenylacene (Grad. Sch. Eng., Osaka Univ.) ○NAKAZAWA, Hironobu; OYA, Akinobu; UETAKE, Yuta; YAKIYAMA, Yumi; SAKURAI, Hidehiro

3H1-31 CSJ Award for Young Chemists Precise Synthesis of Nanographenes, Graphene Nanoribbons and Nanotubes (Grad. Sch. Sci., Nagoya Univ.) ○ITO, Hideto

Chair: SAKURAI, Hidehiro (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3H1-35, 3H1-37, 3H1-38, 3H1-39, 3H1-40)

3H1-35[#] One-dimensional Self-assembly of a Negatively Curved Aromatic Hydrocarbon (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; Boston College; Fac. Sci., TMU) ○KATO, Kenta; HIJIKATA, Yuh; PIRILLO, Jenny; NISHIHARA, Taishi; NAKANISHI, Yusuke; SEGAWA, Yasutomo; SCOTT, Lawrence T.; ITAMI, Kenichiro

3H1-37 Ten-fold Functionalization of Warped Nanographene through an Ir-catalyzed C-H Borylation (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; Boston College) ○KATO, Kenta; LIN, Hsing-an; SEGAWA, Yasutomo; SCOTT, Lawrence T.; ITAMI, Kenichiro

3H1-38 Structure-controlled synthesis of graphene nanoribbons by living annulative π -extension polymerization (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; JST ERATO) ○MATSUSHIMA, Kaho; YANO, Yuuta; ITO, Hideto; ITAMI, Kenichiro

3H1-39[#] Efficient Synthesis of Dibenzo[*h,i*,*s*]ovalene Derivatives and Their Characterizations (Max Planck Inst. for Polymer Res.) ○NARITA, Akimitsu; CHEN, Qiang; MUELLEN, Klaus

3H1-40 Synthesis and Solvent Viscosity Response of the Novel Bianthrone Derivative (Grad. Sch. Sci., Osaka Univ.) ○HAMAMOTO, Yosuke; HIRAO, Yasukazu; NAGAMACHI, Nobuhiro; KUBO, Takashi

Heterocyclic compounds

Chair: TANAKA, Kazuo (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3H1-42, 3H1-43, 3H1-44, 3H1-45, 3H1-46, 3H1-47)

3H1-42 Synthesis and Photophysical Properties of Ladder-type λ^5 -phosphinines (Grad. Sch. Sci., Eng., Ehime Univ.) ○FUJIMOTO, Shion; OHTA, Hidetoshi; HAYASHI, Minoru

3H1-43 Synthesis and photophysical properties of functionalized λ^5 -phosphinine (Grad. Sch. Sci., Eng., Ehime Univ.) ○YONEDA, Kiyohide; HASHIMOTO, Naoki; OHTA, Hidetoshi; HAYASHI, Minoru

3H1-44 Synthesis of fused-phosphindolizine derivatives (Grad. Sch. Sci., Osaka Pref. Univ.) ○MATSUMOTO, Hiroyo; TSURUSAKI, Akihiro; KAMIKAWA, Ken

3H1-45 Synthesis and Functionalization of π -Extended Benzodiphospholes (Grad. Sch. Eng., Kyoto Univ.) ○ISHIDA, Keiichi; HIGASHINO, Tomohiro; KONISHI, Tatsuki; KAMADA, Kenji; IMAHORI, Hiroshi

3H1-46 Synthesis of Novel Extended π -Conjugated Molecules containing

Hexafluorocyclopentene-based Bent-Core and Evaluation of Their Photophysical Properties (KIT) YAMADA, Shigeyuki; ONISHIZAWA, Akito; KONNO, Tsutomu

3H1-47 Synthesis of polyfluorinated π -conjugated molecules having a chiral and evaluation of their physical properties. (KIT) YAMADA, Shigeyuki; OSATO, Masaya; KONNO, Tsutomu

Chair: UETAKE, Yuta (17 : 00~18 : 10)

* 16:50-17:00: interval for laptop PC connection.(3H1-49, 3H1-51, 3H1-52, 3H1-54, 3H1-55)

3H1-49* Molecular and Electronic Structures, and Excited-State Characteristics of Diazadiboretidine, a BN Analogue of Cyclobutadiene (Lab. Chem. Life Sci., Tokyo Tech.) OSHOJI, Yoshiaki; RYZHII, Ivan; IKABATA, Yasuhiro; WANG, Qi; NAKAI, Hiromi; IKOMA, Tadaaki; FUKUSHIMA, Takanori

3H1-51 Spectroscopic Study on Excited States of a BN Analogue of Cyclobutadiene (Grad. Sch. Sci. and Technol., Niigata Univ.) ORYZHII, Ivan; SHOJI, Yoshiaki; MIURA, Tomoaki; FUKUSHIMA, Takanori; IKOMA, Tadaaki

3H1-52** Synthesis and Evaluation of Fused Azo-Bisboron Complexes (Grad. Sch. Eng., Kyoto Univ.) OGON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiaki

3H1-54 Design and Solid-state Emissive Properties of Fused Boron Ketoimines Including Heterocyclic Substituents (Grad. Sch. Eng., Kyoto Univ.) OSATOME, Satoru; SUENAGA, Kazumasa; TANAKA, Kazuo; CHUJO, Yoshiaki

3H1-55 Synthesis of Fused Azomethine-bisboron Complexes and Optical Evaluation (Sch. Eng., Kyoto Univ.) ONAKAMURA, Masashi; OHTANI, Shunsuke; GON, Masayuki; TANAKA, Kazuo

Tuesday, March 19, AM

Helicene

Chair: YAMAGUCHI, Masahiko (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4H1-01, 4H1-02, 4H1-03, 4H1-04, 4H1-06)

4H1-01* Synthesis of helical π -extended azulenes by oxidative C-H coupling reaction (Grad. Sch. Sci., Nagoya Univ.; ERATO, JST; WPI-ITbM, Nagoya Univ.) OChaolumen; ITO, Hideto; ITAMI, Kenichiro

4H1-02* Synthesis of benzohelicenes through annulative π -extension (APEX) strategy (WPI-ITbM, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; ERATO, JST) OKRZESZEWSKI, Maciej; MAEKAWA, Takehisa; ITO, Hideto; ITAMI, Kenichiro

4H1-03 Synthesis and Properties of Fused Carbazole Dimers with Helical Structure (Grad. Sch. Sci. Tech., Gunma Univ.) OYUMOTO, Keita; YAMAMOTO, Koji; NAKAMURA, Yosuke

4H1-04* Synthesis and Properties of Azulene-Fused Isobenzothiophene (IMCE, Kyushu Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ONARITA, Masahiro; TERAOKA, Takaaki; MURAFUJI, Toshihiro; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; GOTO, Kenta; TANI, Fumito

4H1-06 Synthetic Study of Helicene Triptycenes (Grad. Sch. Sci., Osaka Pref. Univ.) OKAWANISHI, Koki; TSURUSAKI, Akihiro; KAMIKAWA, Ken

Chair: HIROSE, Takashi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H1-08, 4H1-09, 4H1-11, 4H1-12, 4H1-13)

4H1-08 Synthesis of BN-Embedded Helicene via One-Shot Multiple Borylation (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) OKAWAKAMI, Bungo; NAKATSUKA, Soichiro; ODA, Susumu; HATAKEYAMA, Takuji

4H1-09** Synthesis and Physical Properties of Tetracoordinate Boron-Fused Double Helicenes (Sch. Sci. Tech., Kwansei Gakuin Univ.) OODA, Susumu; SHIMIZU, Takeshi; KATAYAMA, Takazumi; YOSHIKAWA, Hirofumi; HATAKEYAMA, Takuji

4H1-11 Influence of the fluorine substitution pattern on domino photochemical reactions of terminally-fluorinated [7]helicenes (Grad. Sch. Sci., Eng., Yamagata Univ.) OATSUDA, Chikako; MURASE, Takashi

4H1-12 Sequential Self-catalytic Reactions in the Formation of Hetero-double-helix and their Self-assembly Gels of Ethynylhelicene Oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) OSAWATO, Tsukasa; YAMAGUCHI, Masahiko

4H1-13 Synthesis of S-Shaped Diaza[10]Helicene utilizing Double Dehydrogenative type C - H Activation Reaction by Pd catalyst (Grad. Sch. Sci., Osaka Pref. Univ.) OKAWASHIMA, Takahiro; TSURUSAKI, Akihiro; KAMIKAWA, Ken

Chair: KAMIKAWA, Ken (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4H1-15, 4H1-16, 4H1-18, 4H1-19, 4H1-20)

4H1-15 Elongation of Laterally π -Expanded Helicenes and Investigation of Their Molecular Spring Properties (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) ONAKAKUKI, Yusuke; HIROSE, Takashi; MATSUDA, Kenji

4H1-16** Control of Chiroptical Property of [5]helicene Derivative Based on Expansion of Chiral Space and Controlling Electronic Transitions (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) OKUBO, Hiromu; HIROSE, Takashi; MATSUDA, Kenji

4H1-18 Synthesis and Properties of Aminomethylhelicene Oligomers with Terminal Long Alkyl Groups (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAWATO, Tsukasa; OIWAMOTO, Rina; YAMAGUCHI, Masahiko

4H1-19 Formation of hetero-double-helix complex of ethynyl helicene oligomers in aqueous solutions and a significant effect of water content on the process (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAITO, Nozomi; SAWATO, Tsukasa; OYUZAWA, Ryoosuke; YAMAGUCHI, Masahiko

4H1-20 Synthesis and Stimulus Responses of Liquid Crystal Elastomers Containing Ethynylhelicene Oligomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAWATO, Tsukasa; OYOSHIDA, Miyu; YAMAGUCHI, Masahiko

Tuesday, March 19, PM

Functional conjugated compounds

Chair: TANI, Yousuke (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4H1-28, 4H1-29, 4H1-31, 4H1-32, 4H1-33)

4H1-28 Synthesis and structures of novel spiropyrans containing acridinyl and phenoxy groups (Sch. Sci., Osaka Univ.) OTANIGUCHI, Toshiaki; HIRAO, Yasukazu; KUBO, Takashi

4H1-29* Structure and Fluorescence Properties of Push-pull Type Aminobenzoquinoline Derivatives (Showa Pharm. Univ.) OFUCHI, Yasufumi; KARASAWA, Satoru

4H1-31 Synthesis and Optical Properties of Diimidazo[1,2-a:5',1'-c]quinoxaline Bearing Different Substituents at 3 and 10 Positions (Grad. Sch. Eng., Chiba Univ.) OABE, Shunsuke; AKAZOME, Motohiro; MATSUMOTO, Shoji

4H1-32 Physical Property Changes in *N*-Alkylphenothiazine Radical Cations Accompanying with Crystal-Liquid Phase Transitions (Grad. Sch. Eng. Sci., Osaka Univ.) OMAYA, Ryochi; SUZUKI, Shuichi; UCHIDA, Yoshiaki; NAOTA, Takeshi

4H1-33 Photophysical and Magnetic Properties of a Dihydrophenazine Radical Cation Salt Based on Crystal-Liquid Phase Transition. (Grad. Sch. Eng. Sci., Osaka Univ.) OYAMAGUCHI, Daiki; SUZUKI, Shuichi; UCHIDA, Yoshiaki; NAOTA, Takeshi

Chair: SUZUKI, Shuichi (14 : 40~16 : 00)

* 14:30-14:40: interval for laptop PC connection.(4H1-35, 4H1-36, 4H1-37, 4H1-38, 4H1-39, 4H1-40, 4H1-41)

4H1-35 Amine-Addition Click Reaction to Electron-Deficient π -Systems without a Catalyst (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; RCFM, NIMS) OSANEMATSU, Haruki; TAKAI, Atsuro; TAKEUCHI, Masayuki

4H1-36 Fluorochromism of Naphthalene-bridged Bis(cyanostilbene) Derivatives (Organization for Fundamental Education, FUT; Faculty of Environmental and Information Science, FUT; Grad. Sch. Sci., Osaka Univ.) OKURATA, Hiroyuki; OGAWA, Takuto; YAMAKAWA, Ryo; TANI, Yosuke; OGAWA, Takuji

4H1-37* Control of near infrared photoluminescence properties of single walled carbon nanotubes by functionalization with dendrons (Fac. of Edu., Tokyo Gakugei Univ.) OKONNO, Yui; MAEDA, Yutaka; YAMADA, Michio; ZHAO, Pei; ZHAO, Xiang; EHARA, Masahiro; NAGASE, Shigeru

4H1-38 Theoretical study on aromaticity, open-shell character and nonlinear optical property of an anti-aromatic molecule, tetracyclopentatetraphenylene, in the neutral and redox states (Grad. Sch. Eng. Sci., Osaka Univ.) OSUGIURA, Ryosuke; KISHI, Ryohei; TOBE, Yoshito; NAKANO, Masayoshi

4H1-39 Synthesis and Optical Properties of Heteroatom-containing π -Electronic Systems Having Quinoid Structures via Zirconacycle Intermediates (Sch. Mater. & Chem. Tech., Tokyo Tech.) OFUKUI, Kenta; NISHIYAMA, Hiroki; INAGI, Shinsuke; TOMITA, Ikuyoshi

4H1-40 Novel Anthracene Congested Systems, Radial π -Cluster Molecules: Properties of Oxidized Species (Grad. Sch. Sci., Osaka Univ.) OSHIMIZU, Kazuto; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi

4H1-41* Synthesis and Photophysical Properties of Pentacene Dimer-Based New Coordination Polymers (Fac. Sci. Tech., Keio Univ.; Tampere University of Technology) OSAKAI, Hayato; TKACHENKO, Nikolai; HASOBE, Taku

Room H2

Bldg. 8 812

Physical Organic Chemistry -Structures and Properties-

Saturday, March 16, AM

Radical

Chair: MIYAKE, Yoshihiro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H2-01, 1H2-02, 1H2-03, 1H2-04, 1H2-06)

- 1H2-01** Synthesis and Physical Properties of Triphenylmethyl Radical Derivatives with Halogen-Bonding Ability (Grad. Sch. Sci., Osaka Univ.) ○NAGAMACHI, Nobuhiro; KUBO, Takashi
- 1H2-02** Study on the synthesis of repeatedly generatable biradical species upon photo irradiation and the investigation of thermal equilibrium between the biradical and the closed-shell (Grad. Sch. Sci., Osaka Univ.) ○RYUO, Itoh; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 1H2-03** Synthesis and properties of π -conjugated systems with linked cumulene units (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; ○SATAKE, Shoya; YASUDA, Makoto
- 1H2-04*** Development of Nuclear Spin Sensors for High Sensitive Biological NMR/MRI Based on Triplet-DNP (Fac. Eng., Aichi Inst. of Tech., Grad. Sch. Eng. Sci., Osaka Univ.) ○ENOZAWA, Hideo; NAKAMURA, Yushi; ICHIJO, Naoki; NEGORO, Makoto; KAGAWA, Akinori; KITAGAWA, Masahiro; MURATA, Tsuyoshi; MORITA, Yasushi
- 1H2-06** Synthesis of σ - π Mixed Conjugated Compounds with Polyiodophenyl Groups as σ -Symmetric Delocalized Units (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKADA, Yuki; FURUKAWA, Shunsuke; SAITO, Masaichi

Chair: FURUKAWA, Shunsuke (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H2-08, 1H2-09, 1H2-10, 1H2-11, 1H2-12, 1H2-13)

- 1H2-08** Synthesis and Properties of Phenalenyl Radical Derivative with Trifluoromethyl Groups (Grad. Sch. Sci., Osaka Univ.) ○TERADA, Kazuki; NISHIUCHI, Tomohiko; KUBO, Takashi
- 1H2-09** Research on synthesis and dimerization of 'sigmalene' having singlet biradical character (Grad. Sch. Sci., Osaka Univ.) ○SAHARA, Keisuke; NISHIUCHI, Tomohiko; KUBO, Takashi
- 1H2-10** Synthesis and physical properties of *N*-substituted 2-azaphenalenyl (Grad. Sch. Eng., Univ. of Hyogo; Grad. Sch. Eng., Osaka Univ.; Sch. Eng., The Univ. of Shiga Pref.) ○KATAYAMA, Koji; HORII, Koki; KONISHI, Akihito; NISHIDA, Jun-ichi; KITAMURA, Chitoshi; YASUDA, Makoto; KAWASE, Takeshi
- 1H2-11*** Synthesis and Properties of Bisfluorenoheptalene: Topological Control of Electronic Structure of PAH (Grad. Sch. Eng., Osaka Univ.) ○HORII, Koki; KONISHI, Akihito; YASUDA, Makoto
- 1H2-12** Synthesis and Properties of π -Extended Trityl Radical Having a Higher Acene Unit (Grad. Sch. Sci., Osaka Univ.) ○NISHIUCHI, Tomohiko; KUBO, Takashi
- 1H2-13** Synthesis and physical properties of open-shell singlet biradical compounds based on tetracene skeleton (OPERA, Kyushu Univ.; ERATO, JST; I₂CNER, Kyushu Univ.) ○NAKAMURA, Ryota; MAMADA, Masashi; ADACHI, Chihaya

Circulene

Chair: NISHIUCHI, Tomohiko (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H2-15, 1H2-16, 1H2-17, 1H2-18, 1H2-20)

- 1H2-15** Synthesis and aggregation-induced emission of tetrathia[8]circulene octaoxides having peripheral alkyl groups (Grad. Sch. Eng., Nagoya Univ.) ○MURASE, Hiroyasu; NAGATA, Yuya; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 1H2-16** Synthesis and chromic behaviors of tetrathia[8]circulene octaoxides having peripheral aryl groups (Grad. Sch. Eng., Nagoya Univ.) ○MURASE, Hiroyasu; NAGATA, Yuya; HISAKI, Ichiro; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 1H2-17** Synthesis and property of new hetero[8]circulene (Fac. Sci., Kyoto Univ.) ○MATSUO, Yusuke; KISE, Koki; TANAKA, Takayuki; OSUKA, Atsuhiko
- 1H2-18*** Synthesis and Properties of B-N and C=N substituted tetrathia[8]circulenes (Grad. Sch. Eng., Nagoya Univ.) ○AKAHORI, Shuhei; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 1H2-20** Synthesis and properties of novel π -extended coumarin derivatives (Sch. Sci., Kitasato Univ.) ○KOKUBUN, Mirai; UEDA, Masafumi; MAZAKI, Yasuhiro

Saturday, March 16, PM

Porphyrin

Chair: ISHIZUKA, Tomoya (13 : 30 ~ 14 : 40)

- * 13:20-13:30: interval for laptop PC connection.(1H2-28, 1H2-29, 1H2-30, 1H2-31, 1H2-33)
- 1H2-28** Reactivity of intramolecular N-strapped porphyrin (Grad. Sch. Sci., Eng., Saitama Univ.) ○AINAI, Hiroki; ISHIMARU, Yoshihiro
- 1H2-29** Synthesis of porphyrin analogues by the cyclization of a bulky terpyrrole (Grad. Sch. Sci., Eng., Saitama Univ.) ○OHNO, Tomoya; FUJIHARA, Takashi; ISHIMARU, Yoshihiro
- 1H2-30** Synthesis and properties of hydroxyoxophlorin derivatives (Sch. Eng., Nagoya Univ.) ○TAKIGUCHI, Asahi; SHINOKUBO, Hiroshi
- 1H2-31*** Diarylamine-Fused Porphyrin Dimers: Intramolecular Magnetic Interactions in Their Dication Diradicals (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KATO, Kenichi; OSUKA, Atsuhiko
- 1H2-33*** Diporphyrinylaminyl radical bis-Ni(II) complex and its coordination-induced spin crossover behavior (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SHIMIZU, Daiki; OSUKA, Atsuhiko

Chair: YONEDA, Tomoki (14 : 50 ~ 16 : 00)

- * 14:40-14:50: interval for laptop PC connection.(1H2-36, 1H2-37, 1H2-38, 1H2-40, 1H2-41, 1H2-42)
- 1H2-36** Synthesis and Characterization of meso-Diphenylamino-substituted Corroles (Dep. Chem., Sch. Sci., Kyoto Univ.) ○UETA, Kento; TANAKA, Takayuki; OOSUKA, Atsuhiko
- 1H2-37** Vapor adsorption of molecules into a hydrophobic cavity in a facilely and selectively formed α α α -atropisomer of a porphyrin derivative with bulky substituents (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TANAKA, Shogo; ISHIZUKA, Tomoya; UCHIDA, Sayaka; KOTANI, Hiroaki; KOJIMA, Takahiko
- 1H2-38*** Catalytic O₂ reduction reactions by multi-electron-reduced saddle-distorted porphyrins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SUZUKI, Wataru; KOTANI, Hiroaki; ISHIZUKA, Tomoya; KOJIMA, Takahiko
- 1H2-40** Synthesis and NIR Properties of Benzo-Fused Carbazole-Based Porphyrins (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MAEDA, Chihiro; TANAKA, Yumi; SHIRAKAWA, Takuma; TAKAISHI, Kazoto; EMA, Tadashi
- 1H2-41** Synthesis and Properties of Phosphole-fused Porphyrins (Grad. Sch. Eng., Kyoto Univ.) ○NISHIMURA, Issei; HIGASHINO, Tomohiro; IMAHORI, Hiroshi
- 1H2-42*** Synthesis of platinum(IV)porphyrin diselenocyanate and its selenocyanation reactivity on arenes (Grad. Sch. Sci., TMU) ○RANA, Shahed; IKEDA, Atsuki; SATO, Soichi; SUGIURA, Ken-ichi

Chair: FURUYAMA, Taniyuki (16 : 10 ~ 17 : 20)

- * 16:00-16:10: interval for laptop PC connection.(1H2-44, 1H2-46, 1H2-47, 1H2-48, 1H2-49, 1H2-50)
- 1H2-44*** Synthesis of Expanded Porphyrins with Pyridine subunits (Grad. Sch. Eng., Hokkaido Univ.; Grad. Sch. Pharm. Sci., Chiba Univ.; Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○YONEDA, Tomoki; MORI, Daiki; SUZUKI, Masaaki; NEYA, Saburo
- 1H2-46** Synthesis and chiroptical properties of octaphyrin bis-Ge(IV) complexes, possessing figure-of-eight structures. (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SUITO, Taisuke; IZAWA, Mondo; SHIMIZU, Daiki; TANAKA, Takayuki; OSUKA, Atsuhiko
- 1H2-47** Synthesis and Properties of Novel Double-Decker Complexes Using Bis-Gold Hexaphyrin as a Ligand (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKAI, Akito; ISHIDA, Shin-ichiro; OSUKA, Atsuhiko
- 1H2-48** Synthesis and Photophysical Properties of Novel Short-Wave Infrared Dyes Based on a Doubly N-Confused Dioxohexaphyrin Derivative (Grad. Sch. Eng., Kyushu Univ.) ○KAI, Hiroto; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 1H2-49** Synthesis of Novel Doubly N-Confused Heptaphyrin and Its Redox Reactivity (Grad. Sch. Eng., Kyushu Univ.) ○ITO, Kosuke; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 1H2-50** Redox and ferroelectric properties of N-confused porphyrin cobalt dimer complex (Grad. Sch. Eng., Kyushu Univ.) ○IWANAGA, Osamu; MIYAZAKI, Takaaki; FURUTA, Hiroyuki

Phthalocyanine • Pyrrole

Chair: SHIMIZU, Soji (17 : 30 ~ 18 : 40)

- * 17:20-17:30: interval for laptop PC connection.(1H2-52, 1H2-53, 1H2-54, 1H2-55, 1H2-56, 1H2-57, 1H2-58)
- 1H2-52** Chemoselective synthesis of phthalocyanine free-base complexes using lead ions (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○MAEDA, Kazuya; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 1H2-53** Synthesis and Unique Aggregation Properties of Phthalocyanine Materials (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○UCHIYAMA, Shiori; MAEDA, Hajime; SEGI, Masahito;

FURUYAMA, Taniyuki

- 1H2-54** Synthesis and Optical Properties of Novel Ruthenium Complexes Absorbing Near-IR Light (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○SHIMASAKI, Fumika; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 1H2-55** Synthesis of Thiophene-fused Calix[5]phyrin and Its Fluoride Ion Sensing Ability (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○HIGASHINO, Tomohiro; KUMAGAI, Atsushi; IMAHORI, Hiroshi
- 1H2-56** Synthesis of Nonplanar Heterocycle-Bridged Dipyrrolyl π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○MIYASUE, Mika; HAKETA, Yohei; MAEDA, Hiromitsu
- 1H2-57** Pyrrolyliodonium Cations: π -Electronic Systems Based on Pyrrole Derivatives with Strong Electron-Withdrawing Groups (Coll. Life Sci., Ritsumeikan Univ.) ○IKEUCHI, Shota; NAKAMURA, Kazuto; HAKETA, Yohei; MAEDA, Hiromitsu
- 1H2-58[#]** Atomic-Resolution Electron Microscopic Imaging of Metalloporphyrin and its Molecular Assemblies (Grad. Sch. Sci., The Univ. of Tokyo) ○KAMEI, Ko; HARANO, Koji; NAKAMURA, Eiichi

Sunday, March 17, AM

Boron

Chair: TANAKA, Kazuo (9 : 00 ~ 10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(2H2-01, 2H2-02, 2H2-04, 2H2-05, 2H2-06, 2H2-07)
- 2H2-01** Synthesis and Properties of Planarized Phenylthienylborane (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○SAKAI, Mika; HIRAI, Masato; YAMAGUCHI, Shigehiro
- 2H2-02[#]** Liquid Crystalline Properties of Planarized Triphenylboranes (WPI-ITbM, Nagoya Univ.; RCFM, NIMS) ○TANAKA, Naoki; YOSHIO, Masafumi; YAMAGUCHI, Shigehiro
- 2H2-04** Aryl-substituted Benzo[d]dithieno[b,f]borepins (Fac. Eng., Hiroshima Univ.) ○YAMASAKI, Ai; ADACHI, Yohei; OHSHITA, Joji
- 2H2-05** Synthesis and properties of new p - π conjugated polymers containing borepin rings (Fac. Eng., Hiroshima Univ.) ○ARAI, Fuka; ADACHI, Yohei; OHSHITA, Joji
- 2H2-06** Construction of Cyclic and Acyclic Borane-Amidine Conjugates by Direct 1,2-Carbaboration of Carbodiimides (Lab. Chem. Life Sci., Tokyo Tech.) ○KASHIDA, Junki; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 2H2-07** Synthesis of BNO-Containing Polycyclic Aromatic Compounds Exhibiting Pure Blue Emission (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○UEDA, Yuta; KOMORI, Takao; YOSHIURA, Kazuki; ODA, Susumu; HATAKEYAMA, Takuji

Boron Complex

Chair: HATAKEYAMA, Takuji (10 : 20 ~ 11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(2H2-09, 2H2-11, 2H2-12, 2H2-13, 2H2-14, 2H2-15)
- 2H2-09[#]** Synthesis and Optical Evaluation of Fused Quinoline-boron Complexes (Grad. Sch. Eng., Kyoto Univ.) ○OHTANI, Shunsuke; GON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiki
- 2H2-11[#]** Synthesis and Evaluation of Near-Infrared-Emissive π -Conjugated Polymers Based on Fused Azobenzene-Boron Complexes (Grad. Sch. Eng., Kyoto Univ.) ○WAKABAYASHI, Junko; GON, Masayuki; TANAKA, Kazuo; CHUJO, Yoshiki
- 2H2-12** Synthesis and Physical Property of Boron Complexes Based on Hexaazaphenylene Derivatives (Sch. Eng., Kyoto Univ.) ○ITO, Yoshinori; WATANABE, Hiroyuki; TANAKA, Kazuo
- 2H2-13** Substituent Effect on the Chiroptical Properties of Carbazole-Based BODIPY (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) MAEDA, Chihiro; ○SUKA, Keita; NAGAHATA, Keiji; TAKAISHI, Kazuto; EMA, Tadashi
- 2H2-14** Synthesis of Boron Complexes with Carbazolylimine Ligand (Fac. of Eng., Okayama Univ.) MAEDA, Chihiro; ○NOMOTO, Shuichi; TAKAISHI, Kazuto; EMA, Tadashi
- 2H2-15** Synthesis and Property of a Macrocyclic Consisting of Benzene and Dioxaborole Moieties (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○TANAKA, Shunichi; KAWABATA, Kohsuke; TAKIMIYA, Kazuo

Sunday, March 17, PM

Porphyrin

Chair: SHINOKUBO, Hiroshi (14 : 20 ~ 15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2H2-33, 2H2-36, 2H2-38)
- 2H2-33[#]** Young Scholar Lectures of CSJ Creation of Functional π -Conjugated Dyes based on N-Confused Porphyrinoids (Grad. Sch. Eng., Kyushu Univ.) ○ISHIDA, Masatoshi
- 2H2-36[#]** Synthesis and properties of cycloalkylporphycenes (Grad. Sch. Eng., Kyushu Univ.) ○KOGA, Daiki; ONO, Toshikazu; HISAEDA, Yoshio
- 2H2-38** Synthesis of porphycene derivatives bearing reactive sites for conjugation with macromolecules (Fac. Eng., Kyushu Univ.) ○SHINJO, Hyuga; ONO, Toshikazu; KOIDE, Taro; SHIMAKOSHI, Hisashi;

HISAEDA, Yoshio

Chair: ISHIDA, Masatoshi (15 : 30 ~ 16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2H2-40, 2H2-42, 2H2-43, 2H2-44, 2H2-45)
- 2H2-40[#]** A practical synthesis of symmetric and asymmetric *meso*-tetraarylsubstituted porphycenes through acid-catalyzed oxidative macrocyclizations of *E/Z*-mixed 5,6-dialkyldipyrroethenes (Grad. Sch. Eng., Kyushu Univ.) ○XU, Ning; ONO, Toshikazu; HISAEDA, Yoshio
- 2H2-42** Synthesis of Acetylene and *trans*-Ethylene Bridged Subporphyrin Dimers (Dep. Chem., Sch. Sci., Kyoto Univ.) ○BEKKI, Yosuke; OSUKA, Atsuhiko
- 2H2-43** Synthesis and property of quinoxaline-fused subporphyrins (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KISE, Koki; OSUKA, Atsuhiko
- 2H2-44** Synthesis of 5,10-diazaporphyrinoids via nucleophilic substitution reactions (Dep. Chem., Sch. Sci., Kyoto Univ.) ○UMETANI, Masataka; TANAKA, Takayuki; OSUKA, Atsuhiko
- 2H2-45** *N*-Methylation of 5,15-diazaporphyrin metal complexes (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○NISHIJO, Mayu; NISHIMURA, Tsubasa; CHIA, Wen Xi; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi

Chair: HAKETA, Yohei (16 : 40 ~ 17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(2H2-47, 2H2-48, 2H2-49, 2H2-51)
- 2H2-47[#]** Synthesis and Properties of Covalently Linked Norcorrole Dimers (Grad. Sch. Eng., Nagoya Univ.) ○LIU, Siyu; KAWASHIMA, Hiroyuki; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 2H2-48[#]** Synthesis and Properties of Dialkoxybis(dipyrin)s through Oxidative Cleavage of Norcorrole (Grad. Sch. Eng., Nagoya Univ.) ○SHAFIE, Siham Asyiqin; KAWASHIMA, Hiroyuki; MIYAKE, Yoshihiro; SHINOKUBO, Hiroshi
- 2H2-49[#]** Synthesis of *meso*- π -Extended Porphycene Exhibiting Near-Infrared Absorption (Grad. Sch. Eng., Kyushu Univ.) ○KOIDE, Taro; MATSUSHITA, Yuta; YANO, Yoshio; ONO, Toshikazu; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio
- 2H2-51** The Synthesis of Isocorrole by Ring-Contracting Skeletal Rearrangement of Porphycene (Grad. Sch. Eng., Kyushu Univ.) ○MAEDA, Takafumi; KOIDE, Taro; ABE, Tsukasa; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari; HISAEDA, Yoshio

Monday, March 18, AM

Unique Structure

Chair: TAKAISHI, Kazuto (9 : 00 ~ 10 : 30)

- * 8:50-9:00: interval for laptop PC connection.(3H2-01, 3H2-02, 3H2-03, 3H2-04, 3H2-05, 3H2-06)
- 3H2-01** Substituent Effects on an Extremely Expanded C-C Single Bond in Highly Strained Compounds with a Core-Shell Structure (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ISHIGAKI, Yusuke; ○SHIMAJIRI, Takuya; SUZUKI, Takanori
- 3H2-02** Study on the electronic state of compound with C-C inter-atomic distance of about 2 Å. (Sch. Sci., Osaka Univ.) ○SUGA, Yuki; NISHIUCHI, Tomohiko; KUBO, Takashi
- 3H2-03** Synthesis and physical properties of new organic compound with parallel oriented two thianthrene groups. (Lab. Chem. Life Sci., Tokyo Tech.) ○ABE, Ryota; TSUCHIDO, Yoshitaka; OSAKADA, Kohtaro
- 3H2-04** Synthesis and properties of difluoro borane complex based on 2-pyrrolylthiophene (Grad. Sch. Sci., Eng., Saitama Univ.) ○KINAI, Ryota; ISHIMARU, Yoshihiro
- 3H2-05** Design, preparation and their photophysical properties of hexaarylbenzene derivatives made for a photon up-conversion (Grad. Sch. Eng., Osaka Univ.) ○IWAI, Satono; MORI, Tadashi
- 3H2-06** Stimuli-responsiveness and substituent effect of aza[5]helicenes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○HIROTO, Satoru

Chiral

Chair: HIROSE, Keiji (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3H2-08, 3H2-09, 3H2-10, 3H2-11, 3H2-12, 3H2-13)
- 3H2-08** Synthesis and CPL characteristics of helically arranged luminophores (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) TAKAISHI, Kazuto; ○IWACHIDO, Kazuhiro; MAEDA, Chihiro; EMA, Tadashi
- 3H2-09** Synthesis and Aggregation-Induced Emission of Nitrogen-Bridged Naphthalene Monoimide Dimers (Grad. Sch. Eng., Nagoya Univ.) ○TAJIMA, Keita; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 3H2-10** Synthetic studies on bianthracenol derivatives and its photophysical properties (Grad. Sch. Sci., TMU) ○AKIMOTO, Hisato; SUGIURA, Ken-ichi
- 3H2-11** An Asymmetric Cyclic Penta-pyrene with Circularly Polarized Luminescence (Grad. Sch. Sci. & Tech., NAIST) ○KUROSAKI, Ryo; ARATANI, Naoki; YAMADA, Hiroko
- 3H2-12** Stereogenic Carbon-rich Macrocycles with Oligophenylene Subunits:

Synthesis, Structure, and Chiroptical Properties (Grad. Sch. Sci., Kitasato Univ.) ISHIOKA, Sumire; OHASEGAWA, Masashi; HARA, Nobuyuki; MAZAKI, Yasuhiro

3H2-13 Synthesis and Chiroptical Properties of Chiral 2,2'-Diaryl-1,1'-Binaphthyls (Grad. Sch. Sci., TMU) OWATANABE, Risa; HIRABAYASHI, Kazunori; SHIMIZU, Toshio; HASEGAWA, Masashi; ISHIOKA, Sumire; MAZAKI, Yasuhiro; HARA, Nobuyuki; IMAI, Yoshitane; SUGIURA, Ken-ichi

Chair: MAEDA, Chihiro (11 : 20~12 : 30)

* 11:10-11:20: interval for laptop PC connection.(3H2-15, 3H2-17, 3H2-18, 3H2-19, 3H2-20)

3H2-15* Chiroptical Properties of Non-Planar and Urea-Bridged Conjugated Oligomers prepared by Intramolecular Direct Arylation (Grad. Sch. Eng., Nagoya Inst. of Tech.; Fac. Pharm. Sci., Toho Univ.) OTAKAGI, Koji; HIRANO, Yuto; AZUMAYA, Isao

3H2-17 Synthesis and chiroptical properties of cyclic oligonaphthalene (Grad. Sch. Sci., Kitasato Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) ONOJIMA, Yuki; HASEGAWA, Masashi; HARA, Nobuyuki; IMAI, Yositan; MAZAKI, Yasuhiro

3H2-18 Diastereoselective Synthesis of Bannister-Type Molecule by Utilizing Intramolecular Cyclization of Chiral Diol (Grad. Sch. Eng., Yokohama Natl. Univ.) OSUE, Rika; ASAMI, Masatoshi; ITO, Suguru

3H2-19 Synthesis and Photophysical Properties of Dipyrin-Based Chiral Metal Complexes (Coll. Life Sci., Ritsumeikan Univ.) OHIRATA, Goki; KOBAYASHI, Yoichi; MAEDA, Hiromitsu

3H2-20* Synthesis, Optical Resolution and Chiroptical Properties of Chiral Spiro π -Conjugated Compounds with Heteroaromatic Rings (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OTAKASE, Ko; NAKANO, Koji

Monday, March 18, PM

Molecular Recognition

Chair: FUKUHARA, Gaku (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(3H2-29, 3H2-30, 3H2-31, 3H2-32, 3H2-33, 3H2-34)

3H2-29 Carboxylic Acid Recognition of Tetraamidine Based on Aggregation Induced Emission (KIT) OHOSHIHARA, Yuki; KUSUKAWA, Takahiro

3H2-30 Phosphonic Acid Recognition of a Diamidine Having a Tetraphenylethylene Unit (KIT) IWANAGA, Masashi; TESSEMA, Eyob Ashenafi; KUSUKAWA, Takahiro

3H2-31 Carboxylic Acid Recognition of a Diamidine Having a 9-(Diphenylmethylene)fluorene Unit (KIT) OTSUJIMOTO, Shinya; KUSUKAWA, Takahiro

3H2-32 Synthesis of Anion-Responsive π -Electronic Systems by Huisgen Cycloaddition (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ONISHIMURA, Tadahi; HAKETA, Yohei

3H2-33 Synthesis of Cyclic Anion-Responsive π -Electronic Molecules via Metal Coordination (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; OKOIKE, Ai; HAKETA, Yohei

3H2-34 Synthesis of Space-Controllable Anion-Responsive π -System Dimers (Coll. Life Sci., Ritsumeikan Univ.) ONAGANAWA, Atsushi; MAEDA, Hiromitsu

Chair: SHIGEMITSU, Hajime (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(3H2-36, 3H2-37, 3H2-38, 3H2-39, 3H2-40, 3H2-41)

3H2-36 Anion Sensing with A Bisthiourea-binaphthyl-bithiophene Triad (Sch. Sci., Tokyo Tech.; PRESTO, JST) OTSUCHIYA, Tomoaki; FUKUHARA, Gaku

3H2-37 Synthesis and Assemblies of Self-Associating Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ONISHIYAMA, Kenta; HAKETA, Yohei; MAEDA, Hiromitsu

3H2-38 Ion-Pairing Assemblies Based on Acid-Unit-Introduced Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; OMURATA, Tomoki; HAKETA, Yohei

3H2-39 Examination toward development of hybrid type fluorescent probes for saccharides (Grad. Sch. Agr. Sci., Kindai Univ.) OWATANABE, Ryo; KASHIWAZAKI, Gengo; NAKA, Ryota; UTAKA, Yoshimi; KITAYAMA, Takashi; HIBI, Takao

3H2-40 Oligosaccharide Sensing in Aqueous Media with Donor and Acceptor Reporters-Curdian Conjugates (Sch. Sci., Tokyo Tech.; PRESTO, JST) ORYOSON, Yuma; FUKUHARA, Gaku

3H2-41 Controlling Dynamic Hybridization of Glucans with Aggregation-induced Emission-based Macromolecules (Sch. Sci., Tokyo Tech.; PRESTO, JST) ONAKASHA, Kotoe; FUKUHARA, Gaku

Chair: OHISHI, Yuki (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(3H2-43, 3H2-44, 3H2-45, 3H2-46, 3H2-47, 3H2-48)

3H2-43* A carboxamidoquinoline-based fluorescence chemosensor for pyrophosphate in aqueous solution (Grad. Sch. Urban Envr. Sci., TMU) OPRATOMO, Uji; MOCHIDA, Wakana; HOSHI, Mitsuki; NISHIYABU,

Ryuhei; KUBO, Yuji

Macrocycles

3H2-44 Dynamic Covalent Properties of Singly Imine-bridged Rotaxanes with a 2,6-Disubstituted Benzaldehyde Axle (Fac. Sci., TUS) ONAKAI, Shinnosuke; ONO, Kosuke; KAWAI, Hidetoshi

3H2-45 Supramolecular Aggregation and Stimuli-responsive Behavior of Cationic and Anionic Cyclophanes Having A Dabsyl Group Through A Disulfide Linkage (Fac. Sci., Fukuoka Univ.) OSHIBATA, Kana; HAYASHIDA, Osamu

3H2-46 Evaluation of Cavitand-driven Catalysis for Selective Hydration of Internal Alkynes (Grad. Sch. Sci. Tech., Ryukoku Univ.) OINOUE, Mami; ENDO, Naoki; IWASAWA, Tetsuo

3H2-47 Synthesis and Inclusion Ability of Various α -Cyclodextrin Dimers Bearing Multiple Linkers toward Unsaturated Fatty Acid Esters (Grad. Sch. Eng., Osaka Univ.) OKAZAMA, Ai; IGUCHI, Hitomi; SHIGEMITSU, Hajime; KIDA, Toshiyuki

3H2-48 Synthesis and Inclusion Ability of a Novel Cyclic Host Molecule Composed of Xylooligosaccharides (Grad. Sch. Eng., Osaka Univ.) OKIHIRA, Ryo; SHIGEMITSU, Hajime; KIDA, Toshiyuki

Chair: KAWAI, Hidetoshi (17 : 10~18 : 00)

* 17:00-17:10: interval for laptop PC connection.(3H2-50, 3H2-51, 3H2-52, 3H2-53, 3H2-54)

3H2-50 Intramolecular glucose rotation of β -cyclodextrin and formation of β -cyclodextrin dimers (Grad. Sch. Sci., Eng., Saitama Univ.) OFUKIMBARA, Hiroki; FUSE, Yasuyuki; ISHIMARU, Yoshihiro

3H2-51 Intramolecular glucose rotation of α -cyclodextrin and formation of α -cyclodextrin dimers (Grad. Sch. Sci., Eng., Saitama Univ.) OTSUKADA, Kenta; ISHIMARU, Yoshihiro

3H2-52 Size-Selective Guest Recognition of a "meta"-Ethynylphenol Macrocyclic (Grad. Sch. Pharm. Sci., Univ. of Toyama) OHAYASHI, Tomoya; OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

3H2-53 β -Galactoside-Selective Association of a Cage-Shaped Pyridine-Acetylene-Phenol molecule (Fac. Pharm. Sci., Univ. of Toyama) OKUDO, Kazuki; MASUDA, Kentaro; OHISHI, Yuki; ABE, Hajime; INOUE, Masahiko

3H2-54 Selective Solid-Liquid Extraction of Native Saccharides by a Pyridine-Aniline-Phenol Oligomer (Grad. Sch. Pharm. Sci., Univ. of Toyama) OHISHI, Yuki; INOUE, Masahiko

Tuesday, March 19, AM

Chair: SHIGEMITSU, Hajime (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4H2-01, 4H2-02, 4H2-03, 4H2-04, 4H2-05)

4H2-01 Inclusion of organic molecules by crystal of thiocalix[4]arene \cdot diethylamine salt (Grad. Sch. Eng., Tohoku Univ.) OMIYOSHI, Ikuko; SASAKI, Takuro; NAKAJI, Yosuke; NAKAYAMA, Hiroko; MOROHASHI, Naoya; HATTORI, Tetsutaro

4H2-02 Enantioselective inclusion of sulfonate salts of amino acids with the crystal of α -cyclodextrin (Grad. Sch. Eng., Tohoku Univ.) OMAEDA, Tetsuya; MIYOSHI, Ikuko; KITAMOTO, Yuichi; MOROHASHI, Naoya; HATTORI, Tetsutaro

4H2-03 Selective extraction of Pd(II) and Pt(II) by 1,3-diaminocalix[4]arene (Grad. Sch. Eng., Tohoku Univ.) OKURUSU, Yu; AKASAKA, Kosuke; MOROHASHI, Naoya; HATTORI, Tetsutaro

4H2-04 Selective Pseudorotaxane Formation Based on Kinetic Control by Using C3v-type Macrocyclic BODIPY Trimer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OHIMORI, So; MATSUOKA, Ryota; NABESHIMA, Tatsuya

4H2-05* Atomic-resolution electron microscopic analysis of curvature-dependent adsorption modes of cyclodextrins on carbon nanohorns (Grad. Sch. Sci., The Univ. of Tokyo) OHANAYAMA, Hiroki; HARANO, Koji; NAKAMURA, Eiichi

Chair: MOROHASHI, Naoya (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H2-08, 4H2-09, 4H2-10, 4H2-11, 4H2-12, 4H2-13)

4H2-08 Molecular Recognition Ability of Macrocyclic Dipyrin Oligomers and Their BODIPY Derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) OHOJO, Tomohiro; MATSUOKA, Ryota; NAKAMURA, Takashi; NABESHIMA, Tatsuya

4H2-09 Formation of a Single Isomer by Metal Complexation of a Cyclodextrin Derivative with Seven Bipyridyl Groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) OYONEMURA, Sota; NAKAMURA, Takashi; NABESHIMA, Tatsuya

4H2-10 Molecular Recognition of Aliphatic Oligocarbonyl Compounds by Pillar[5]arene. (Grad. Sch. Eng., Hokkaido Univ.; Coll. Sci. Eng., Kanazawa Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; WPI-NanoLSI, Kanazawa Univ.; WPI-ICReDD, Hokkaido Univ.) OMANABE, Yumehiro; WADA, Keisuke; BABA, Yudai; OGOSHI, Tomoki; INOKUMA, Yasuhide

4H2-11 Construction of bowl-in-tube supramolecule by CH- π hydrogen

bonds (Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; Grad. Sch. Sci., Tohoku Univ.) ○FUKUNAGA, Kengo; FUJITA, Masahiro; MATSUNO, Taisuke; SATO, Sota; ISOBE, Hiroyuki

4H2-12 Encapsulation of Fullerenes by Belt-Shaped Macrocycles Possessing Salophos as Their Wall (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○TSUKUDA, Shinnosuke; NAKAMURA, Takashi; NABESHIMA, Tatsuya

4H2-13 Entropy-driven Cooperative Guest Binding of Feet-to-Foot Connected Biscavitands (Grad. Sch. Sci., Hiroshima Univ.) ○SHIMOYAMA, Daisuke; HAINO, Takeharu

Chair: TOHNAI, Norimitsu (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(4H2-15, 4H2-16, 4H2-18)

4H2-15 Synthesis and Guest Recognition Behavior of Cryptophane Derivatives Having Salicylideneimine Moieties (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○KANAMORI, Akihiro; SAKATA, Yokoi; AKINE, Shigehisa

4H2-16[#] Development of artificial light-harvesting antennas based on cyclodextrins and their energy intensive properties (Grad. Sch. Eng., Osaka Univ.) ○SHIGEMITSU, Hajime; MATSUDA, Keigo; KIDA, Toshiyuki

4H2-18 Development of water-soluble artificial light-harvesting antennas toward biological applications and their optical properties (Graduate School of Engineering, Osaka University) ○MATSUDA, Keigo; SHIGEMITSU, Hajime; KIDA, Toshiyuki

Room H3

Bldg. 8 821

Physical Organic Chemistry -Structures and Properties-

Saturday, March 16, AM

Crystalline Materials

Chair: HISAKI, Ichiro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H3-01, 1H3-02, 1H3-03, 1H3-04, 1H3-05)

1H3-01 Synthesis of novel chiral MOF using (R)-2,2'-dihydroxy-1,1'-binaphthyl-3,3'-di(2-naphthoic acid) and its application for separation of enantiomers (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KAWAKITA, Tomohiro; TANAKA, Koichi; ZOFIA, Lipkowska

1H3-02 Crystalline Porous Materials of Adamantane-based Macrocyclic as Crystalline Sponges for Leaf Alcohol (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○TOMINAGA, Masahide; KAWAHATA, Masatoshi; HYODO, Tadashi; YAMAGUCHI, Kentaro

1H3-03[#] Molecular sorption in nanographene-based metal-organic frameworks (Grad. Sch. Eng., The Univ. of Tokyo; Innovation Center, RIKEN) ○SUGINOME, Shun; SATO, Hiroshi; AIDA, Takuzo

1H3-04 Selective separation of poly(ethylene glycol) with different terminal groups using MOF (Fac. Eng., The Univ. of Tokyo) ○MIZUTANI, Nagi; KITAO, Takashi; LE OUAY, Benjamin; UEMURA, Takashi

1H3-05[#] Dynamic Microporous Frameworks for the Separation of Terminal-Functionalized PEG (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○LE OUAY, Benjamin; UEMURA, Takashi

Chair: TOMINAGA, Masahide (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H3-08, 1H3-10, 1H3-11, 1H3-12, 1H3-13)

1H3-08[#] Evaluation of π interactions on the carbon materials-coated columns by liquid chromatography (Sch. Eng., Kyoto Univ.) ○KANAO, Eisuke; NAITO, Toyohiro; KUBO, Takuya; OTSUKA, Koji

1H3-10 Construction of hydrogen-bonded organic frameworks with high permanent porosity via shape-fitted docking of hexaazatriphenylene derivatives (Grad. Sch. Eng., Osaka Univ.; RIES, Hokkaido Univ.) ○SUZUKI, Yuto; HISAKI, Ichiro; TONAI, Norimitsu

1H3-11 Construction of porous crystals based on metal-induced peptide duplexes (Grad. Sch. Eng., The Univ. of Tokyo) ○SABUROMARU, Yuta; SAWADA, Tomohisa; FUJITA, Makoto

1H3-12 Mechanochromic properties of 1,8-diphenylanthracene derivatives (KIT) ○KOJIMA, Yusuke; KANNEN, Fumihiko; KUSUKAWA, Takahiro

1H3-13 Synthesis of a Guanidine Having an Anthracene Unit and Its Oxoacid Recognition (KIT) ○OOE, Masashi; MURA, Ryosuke; KUSUKAWA, Takahiro

Chair: KUSUKAWA, Takahiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H3-15, 1H3-16, 1H3-18, 1H3-19, 1H3-20)

1H3-15 Selective Separation of Hydrocarbons Using Host-Guest Properties of Pillar[n]arene in Crystal State (Grad. Sch. Nat. Sci. Technol., Kanazawa

Univ.; NanoLSI, Kanazawa Univ.) ○SAITO, Kazuki; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; OGOSHI, Tomoki

Molecular Assembly

1H3-16* Synthesis and surface-adhesion properties of tripodal triptycene derivatives with thiol moieties (IIR, Tokyo Tech.) ○ISHIWARI, Fumitaka; TAGO, Hiromi; TADA, Tomofumi; FUJII, Shintaro; KIGUCHI, Manabu; FUKUSHIMA, Takanori

1H3-18 Development of Hyperbranched Polymers with Bridgehead-Substituted Tripodal Triptycene as Junction Units (Lab. Chem. Life Sci., Tokyo Tech.) ○KAWAHARA, Shintaro; ISHIWARI, Fumitaka; FUKUSHIMA, Takanori

1H3-19 Synthesis and characterization of a boronic acid-appended dicyanodistyrylbenzene (Urban Environmental Science, Tokyo Metropolitan University) ○KOJIMA, Soya; HOSHI, Mitsuki; KUBO, Yuji

1H3-20 The room-temperature phosphorescent property of mono-dispersed boronate particles (Grad. Sch. Urban Envr. Sci., TMU) ○HOSHI, Mitsuki; NISHIYABU, Ryuhei; KUBO, Yuji

Saturday, March 16, PM

Chair: KUBO, Yuji (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1H3-28, 1H3-29, 1H3-30, 1H3-32, 1H3-33)

1H3-28 Control of supramolecular polymerization utilizing microflow space (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KANEYOSHI, Akira; KITAMURA, Akitomo; NUMATA, Munenori

1H3-29 Creation of end-cap nanofibers in microflow (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KANZAKI, Chisako; KAJI, Shingo; NUMATA, Munenori

1H3-30* Supramolecular Double Network Hydrogel (1) : Expansion of the Stimuli-responsiveness by Post-functionalization (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Wataru; SHIGEMITSU, Hajime; KUBOTA, Ryuu; MINAMI, Saori; URAYAMA, Kenji; HAMACHI, Itaru

1H3-32 Supramolecular Double Network Hydrogel (2): Self-sorting by Dynamic Covalent Chemistry (Sch. Eng., Kyoto Univ.) ○NAGAO, Kazutoshi; TANAKA, Wataru; MATSUMURA, Ryotaro; KUBOTA, Ryuu; HAMACHI, Itaru

1H3-33 Supramolecular Double Network Hydrogel (3): Hybridization with covalent polymer gel (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURA, Keisuke; SHIGEMITSU, Hajime; MATSUZAKI, Tomonobu; KUBOTA, Ryuu; HAMACHI, Itaru

Chair: NUMATA, Munenori (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1H3-35, 1H3-36, 1H3-38, 1H3-39, 1H3-40)

1H3-35 Synthesis of Electron-Rich Macrocyclic Boronic Esters and Their Inclusion Ability for Electron-Deficient Aromatic Molecules (Sch. Sci., Tokyo Tech.) ○KAWASAKI, Minami; FUKUDA, Kenya; UCHIKURA, Tatsuhiko; TAKAHASHI, Kouhei; IWASAWA, Nobuharu

1H3-36[#] Seeded Supramolecular Polymerization of a Dithienyldiketopyrrolopyrrole Dye in Aqueous Media (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OGI, Soichiro; FUKAYA, Natsumi; ARIFIN, Arifin; HIJIKATA, Yuh; YAMAGUCHI, Shigehiro

1H3-38 Self-Assembly and Photophysical Properties of Amphiphilic Dithienyldiketopyrrolopyrrole Dyes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○FUKAYA, Natsumi; OGI, Soichiro; SOTOME, Hikaru; MIYASAKA, Hiroshi; YAMAGUCHI, Shigehiro

1H3-39 Stimuli-Responsivities of an Aromatic Micelles with Heteroaromatic Panels (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Yoshiyuki; YOSHIZAWA, Michito; AKITA, Munetaka

1H3-40 A Photoresponsive Aromatic Micelle: Catch and Release of Hydrophobic Compounds (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KISHIDA, Natsumi; SATO, Yoshiyuki; YOSHIZAWA, Michito; AKITA, Munetaka

Chair: OGI, Soichiro (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1H3-42, 1H3-43, 1H3-44, 1H3-45, 1H3-46)

1H3-42 Synthesis of a V-Shaped Amphiphilic Molecule via Diels-Alder Reaction and its Self-assembly Behavior (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ○ITO, Kenta; NISHIOKA, Tomoya; YOSHIZAWA, Michito; AKITA, Munetaka

1H3-43 Encapsulation of Au₃ Complexes by Micelles and Their Emission Properties in Water (Lab. Chem. Life Sci., Tokyo Tech.) ○HANAFUSA, Mamiko; MATSUMOTO, Kyosuke; YOSHIZAWA, Michito; AKITA, Munetaka

1H3-44 Mechanistic study of solvent-dependent interconversion in a supramolecular balance[~] porphyrin-based supramolecular polymers (Grad. Sch. Sci., TUS) ○SUZUKI, Yuki; KURAMOCHI, Yusuke; SATAKE, Akiharu

1H3-45 Study of intermolecular interactions of solvents using supramolecular balances (Grad. Sch. Sci., TUS) ○SUGIMOTO, Motonobu; KURAMOCHI, Yusuke; SATAKE, Akiharu

1H3-46[#] Archimedes' spiral growth of supramolecular polymer (RCFM, NIMS; Grad. Sch. Eng., Kyushu Univ.) ○SASAKI, Norihiko; TAKEUCHI, Masayuki; SUGIYASU, Kazunori

Chair: YOSHIZAWA, Michito (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(1H3-49, 1H3-51, 1H3-53, 1H3-54)
- 1H3-49[#]** Supramolecular Polymerization of Chiral Antiaromatic Compounds and Their Light-induced Chiral Amplification (Grad. Sch. Eng., The Univ. of Tokyo) ○UEDA, Michihisa; ITOH, Yoshimitsu; AIDA, Takuzo
- 1H3-51[#]** Supramolecular Self-assembly Behavior of Helical Polymers Bearing Oligoamide Side-chains (Grad. Sch. Eng., Nagoya Univ.) ○KAWABATA, Satoshi; OKUDA, Shogo; OUSAKA, Naoki; YASHIMA, Eiji
- 1H3-53** Template Function of Dendrimer Supramolecular Polymer Aiming for Cluster Array (Lab. Chem. Life Sci., Tokyo Tech.) ○MINAGAWA, Ken; ALBRECHT, Ken; MIYATA, Narumi; YAMAMOTO, Kimihisa
- 1H3-54** Supramolecular Polymers Composed of Photostable Fluorescent Dyes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○IMAI, Yoshiki; OGI, Soichiro; SATO, Yoshikatsu; YAMAGUCHI, Shigehiro

Sunday, March 17, AM

Chair: HAKETA, Yohei (9 : 20 ~ 10 : 20)

- * 9:10-9:20: interval for laptop PC connection.(2H3-03, 2H3-04, 2H3-05, 2H3-07, 2H3-08)
- 2H3-03** Time-dependent Supramolecular Polymerization of Disulfide-linked Dimer of Amino-acide-based Diamides (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○TAKAMATSU, Aiko; MATSUMOTO, Kentaro; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 2H3-04** Self-assembly and Photoresonive Behavior of a V-shaped Azobenzene Dimer (IGPR, Chiba Univ.) ○SAITO, Takuho; YAGAI, Shiki
- 2H3-05[#]** Supramolecular chirality generation in rhodamine J-aggregates composed of achiral building blocks (ISIR, Osaka Univ.) ○KIM, Sooyeon; LI, Xinx; FUJITSUKA, Mamoru; MIYATA, Mikiji; MAJIMA, Tetsuro
- 2H3-07[#]** Development of multiblock arene-perfluoroarene macrocycle (Sch. Life Sci. Tech., Tokyo Tech.) ○SATO, Kohei; NABEYA, Kota; MURAOKA, Takahiro; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki; KINBARA, Kazushi
- 2H3-08[#]** Development of Multiblock Amphiphilic Molecules bearing Dihydroimidazolium Ion (Sch. Life Sci. Tech., Tokyo Tech.) ○MORI, Miki; SATO, Kohei; KINBARA, Kazushi

Chair: YAGAI, Shiki (10 : 30~11 : 30)

- * 10:20-10:30: interval for laptop PC connection.(2H3-10, 2H3-11, 2H3-13, 2H3-14, 2H3-15)
- 2H3-10** Ion-Pairing Assemblies Based on Porphyrin-Au^{III} Complexes (Coll. Life Sci., Ritsumeikan Univ.) ○TANAKA, Hiroki; HAKETA, Yohei; MAEDA, Hiromitsu
- 2H3-11[#]** Ion-Pairing Assemblies Based on Porphyrin Anions (Coll. Life Sci., Ritsumeikan Univ.) ○SASANO, Yoshifumi; MAEDA, Hiromitsu
- 2H3-13** Ion-Pairing Assemblies Comprising π -Electronic Anions Stabilized by Intramolecular Hydrogen Bonding (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; ○FUMOTO, Nobuhiro; HAKETA, Yohei
- 2H3-14** Synthesis and Optical Properties of D- π -A Molecules with Ion Binding Ability (Fac. Eng., Yamagata Univ.) ○YANBE, Takahiro; YAMAKADO, Ryohei; OKADA, Shuji
- 2H3-15** Synthesis and Ion-Pairing Assemblies of Anion-Responsive Molecules Comprising π -Extended Pyrrole Units (Coll. Life Sci., Ritsumeikan Univ.) ○SUGIURA, Shinya; MAEDA, Hiromitsu

Sunday, March 17, PM

Chair: IIDA, Hiroki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2H3-33, 2H3-34, 2H3-35, 2H3-36, 2H3-37, 2H3-38)
- 2H3-33** Synthesis and self-aggregation of amphiphilic chlorophyll derivatives possessing carbonyl groups (Fac. Sci. Tech., Ryukoku Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○HOSOMI, Naohiro; SASAKI, Takaaki; TAMIAMI, Hitoshi; MIYATAKE, Tomohiro
- 2H3-34** Self-Aggregation of Zinc Chlorophyll Derivatives Possessing an Oxygen Functional Group at the 20-Position (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KISHI, Masashi; TAMIAMI, Hitoshi
- 2H3-35** Synthesis of zinc complexes of B-ring reduced chlorophylls and their self-aggregation (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○FUNAKOSHI, Daichi
- 2H3-36** Stereoselective self-aggregation of synthetic chlorophyll derivatives bearing 13¹-(substituted hydroxyimino) groups (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KATAYAMA, Airi; TAMIAMI, Hitoshi
- 2H3-37** Synthesis, Properties, and Self-assembly of Trithiazolyltriazines Bearing Alkoxybenzene Moieties (Sch. Eng., The Univ. of Shiga Pref.; Sch. Sci. Tech., Gunma Univ.; IMCE, Kyushu Univ.) ○HAYASHI, Kazuhiro; KANEKO, Kengo; NAKAMURA, Yosuke; MATSUMOTO, Taisuke; NARA, Daiki; YAMANOBE, Takeshi; UEHARA, Hiroki; KITAMURA, Chitoshi; KATO, Shin-ichiro

2H3-38 Pressure driven modulation of guest binding on self-assembled nanofiber (Grad. Sch. Sci. & Tech., NAIST) ○YONEZAWA, Shumpei; SETHY, Ramarani; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

Chair: KATO, Shin-ichiro (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2H3-40, 2H3-41, 2H3-42, 2H3-43, 2H3-45)
- 2H3-40** Syntheses and evaluation of novel Ambidextrous gelators based on molecular design (Grad. Sch. Eng., KIT) ○MATSUMOTO, Shinnosuke; ARAKI, Koji; TSUGE, Akihiko
- 2H3-41** Preparation and characterization of novel organogelators consisting of the cyclohexane skeleton (Grad. Sch. Eng., KIT) ○ABE, Katsunori; ARAKI, Koji; TSUGE, Akihiko
- 2H3-42** Chiral supramolecular organogel based on carbamoylated riboflavin derivatives (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○NITTA, Takahiro; SUGIHARA, Saki; LU, Chenxu; IIDA, Hiroki
- 2H3-43[#]** Mechanochromic Properties of Benzodithiophene-Based Catenar Liquid Crystals (RCFM, NIMS) ○SEKI, Atsushi; YOSHIO, Masafumi
- 2H3-45** Synthesis and Properties of Anion-Responsive π -Electronic Systems with Orthogonally Introduced π -Moieties (Coll. Life Sci., Ritsumeikan Univ.) ○KODA, Naoya; MAEDA, Hiromitsu

Chair: NAKASHIMA, Takuya (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2H3-47, 2H3-49, 2H3-50, 2H3-51, 2H3-52)
- 2H3-47[#]** Ion-pairing Assemblies of Anion-Responsive π -Electronic Molecules Exhibiting Dynamic Binding Behaviors (Coll. Life Sci., Ritsumeikan Univ.) ○KUNO, Atsuko; MAEDA, Hiromitsu

Molecular Capsules

- 2H3-49** Development of a Molecular Capsule with a Fluorescent Urea Group (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○TSUJI, Naoya; OBATA, Makoto; TAKAHASHI, Masaki
- 2H3-50** Self-Assembly of Photoresponsive Arylazophenyl-Cavitand Capsule via Hydrogen Bonds and Its Photoresponsive Control of Guest Encapsulation (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○TSUKAMOTO, Yoshimi; KOBAYASHI, Kenji
- 2H3-51** Self-Assembly of Dynamic Imine-Bonded Cavitand Capsule and Its Guest Encapsulation (Fac. Sci., Shizuoka Univ.) ○SHIMO, Shyuto; TSUKAMOTO, Yoshimi; KOBAYASHI, Kenji
- 2H3-52** Self-Assembly of Double- or Triple-Decker Sandwich Porphyrin via Hydrogen Bonds (Grad. Sch. Sci. Technol., Shizuoka Univ.) ○NAKABAYASHI, Kakeru; KOBAYASHI, Kenji

Monday, March 18, AM

Chair: TOKUNAGA, Yuji (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3H3-01, 3H3-03, 3H3-04, 3H3-05)
- 3H3-01[#]** Uniform Interconversion Between Bowl- and Capsule-Shaped Complexes in Response to Various Stimuli (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Kenichi; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 3H3-03** Synthesis and Properties of Peanut-Shaped Coordination Capsules with Anthracene Shells (Lab. Chem. Life Sci., Tokyo Tech.) ○MATSUMOTO, Kyosuke; TANAKA, Yuya; YOSHIZAWA, Michito; AKITA, Munetaka
- 3H3-04[#]** Modulation of emission intensity of the self-assembled nanocube by its guest-induced expansion and contraction (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○LIAO, Jingyuan; KOJIMA, Tatsuo; TAKAHASHI, Satoshi; HIRAOKA, Shuichi
- 3H3-05** Effect of encapsulation on fluorescence decay kinetics of nanocube observed with time-resolved spectroscopy (Fac. Sci., Gakushuin Univ.) ○KAJITA, Mizuho; JINGYUAN, Liao; TAKAYA, Tomohisa; HIRAOKA, Shuichi; IWATA, Koichi

Chair: UBE, Hitoshi (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(3H3-07, 3H3-09, 3H3-10, 3H3-11)
- 3H3-07[#]** A temperature-controlled cycle of scrambling and self-sorting of building blocks between cubic assemblies (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ZHAN, Yiyang; KOJIMA, Tatsuo; ISHII, Kentaro; TAKAHASHI, Satoshi; HAKETA, Yohei; MAEDA, Hiromitsu; UCHIYAMA, Susumu; HIRAOKA, Shuichi
- 3H3-09** Theoretical study on encapsulation process of counter anion into self-assembled gear-shaped amphiphilic molecules (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○KOIDE, Takuya; MASHIKO, Takako; HIRAOKA, Shuichi; NAGASHIMA, Umpei; TACHIKAWA, Masanori

Supramolecular Complex

- 3H3-10** Molecular recognition of D₂ symmetric porphyrin-trimer based on hydrogen-bonding (Grad. Sch. Eng., Univ. of Fukui) ○KIMURA, Masaki; MIYAGAWA, Shinobu; TAKAYA, Hikaru; NAITO, Masaya; TOKUNAGA, Yuji

3H3-11 Efficient Deracemization of a Spiroborate-Based Double-Stranded Helicate Bearing a Bisporphyrin Unit with Acids (Grad. Sch. Eng., Nagoya Univ.) OITO, Masaki; YAMAMOTO, Shinya; OUSAKA, Naoki; YASHIMA, Eiji

Chair: HIRAOKA, Shuichi (11 : 00~11 : 00)

* 10:50-11:00: interval for laptop PC connection.(3H3-13, 3H3-16)

3H3-13[#] CSJ Award for Young Chemists Geometric Design of Molecular Self-assembly for Polyhedral Nanomaterials (WPI-iCeMS, Kyoto Univ.) OFUJITA, Daishi

3H3-16^{}** Enantioselective Photodimerization of a 2,6-Disubstituted Anthracene Derivative Assisted by a One-Handed Homo-Double Helix Formation (Grad. Sch. Eng., Nagoya Univ.) OURUSHIMA, Akio; TANAKA, Makoto; HORIMOTO, Naomichi; TANABE, Junki; TAURA, Daisuke; OUSAKA, Naoki; MORI, Tadashi; YASHIMA, Eiji

Monday, March 18, PM

Chair: MATSUOKA, Ryota (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3H3-25, 3H3-26, 3H3-27, 3H3-28, 3H3-29, 3H3-30)

3H3-25 Encapsulation and Discrimination of Saturated/Unsaturated Fatty Acids within Anthracene-based Coordination Capsules (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ONIKI, Keita; TSUTSUI, Takahiro; YOSHIZAWA, Michito; AKITA, Munetaka

3H3-26 Anthracene-based Coordination Capsules: Nitrogen Functionalization of the Inner Space (Lab. Chem. Life Sci., Tokyo Tech.) DOBASHI, Hiroki; LORENZO, Catti; YOSHIZAWA, Michito; AKITA, Munetaka

3H3-27 Polyaromatic Coordination Cages vs. Capsules: Comparison of the Host Ability (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) OTSUTSUI, Takahiro; YOSHIZAWA, Michito; AKITA, Munetaka

3H3-28 Synthesis and Guest Confinement Effect of a Cobalt(III) Dinuclear Metallohost That Can Convert into Two Kinds of Bridged Structures (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ONAGASHIMA, Koki; SAKATA, Yoko; AKINE, Shigehisa

3H3-29 Molecular Recognition Behavior of a Petanuclear Metallonobelt Constructed by Template-directed Self-assembly of a Triptycene Based Ligand (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) OYAMAMOTO, Ryoichi; SAKATA, Yoko; AKINE, Shigehisa

3H3-30 Investigation of coordination self-assembly having unsymmetric bridging ligands (Fac. Sci., TUS) OOGATA, Daiji; YUASA, Junpei

Chair: SAKATA, Yoko (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(3H3-32, 3H3-33, 3H3-34, 3H3-35, 3H3-37)

3H3-32 Photoinduced electron transfer from chiral assembly of coordination driven acridine ligands (Grad. Sch. Sci., TUS) OKOIDE, Shota; YUASA, Junpei

3H3-33 Synthesis and Optical Properties of Indium Complexes of N2O4-Type Dipyrrins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba, Univ. of Tsukuba) OSUMIYOSHI, Akinobu; CHIBA, Yusuke; MATSUOKA, Ryota; NABESHIMA, Tatsuya

3H3-34 Chiral recognition of carboxylic acids using an achiral Ni(II) complex of pyridine-benzimidazole-based ligand. (Grad. Sch. Sci., Eng., Yamagata Univ.) OKUBOTA, Atsuko; ABE, Chihiro; HOSHINO, Nanami; KATAGIRI, Hiroshi

3H3-35^{}** Chiral Recognition of Mono-alcohols by Using 1-hydroxy-2,3,1-benzodiazaborine Having an Optical Active Cr-arene Moiety (Sch. Sci., Tokyo Tech.) OSHIMO, Shunsuke; TAKAHASHI, Kohei; IWASAWA, Nobuharu

3H3-37 Amide twisting by inclusion in a coordination cage toward enhanced hydrolysis (Grad. Sch. Eng., The Univ. of Tokyo) OSHITOZAWA, Kosuke; TAKEZAWA, Hiroki; FUJITA, Makoto

Chair: KATAGIRI, Hiroshi (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(3H3-39, 3H3-42, 3H3-43)

3H3-39[#] Young Scholar Lectures of CSJ Precise Synthesis and Functions of Macrocyclic Oligomers with Unique Structures (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ONAKAMURA, Takashi

3H3-42 Self-assembly between bridging ligands having long alkyl chains and zinc ions (Grad. Sch. Sci., TUS) OKIRIAKE, Kota; YUASA, Junpei

3H3-43^{}** Self-assembly process of a Pd₄L₈ quadruply interlocked cage (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OTATEISHI, Tomoki; YASUTAKE, Yuichi; KOJIMA, Tatsuo; TAKAHASHI, Satoshi; HIRAOKA, Shuichi

Chair: YUASA, Junpei (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(3H3-46, 3H3-47, 3H3-48, 3H3-50, 3H3-51)

3H3-46[#] Dependence from templating anions of self-assembling pathways and final products of Pd₂L₄ cage (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OTAKESHIGE, Leonardo Hayato; TATEISHI, Tomoki; KOJIMA, Tatsuo; TAKAHASHI, Satoshi; HIRAOKA, Shuichi

3H3-47 Self-assembly Processes of Pd₆L₄ Octahedral Complexes (Grad. Sch. Arts and Sci., The Univ. of Tokyo) OKOMINE, Shohei; KOJIMA, Tatsuo; TAKAHASHI, Satoshi; HIRAOKA, Shuichi

3H3-48^{}** Self-assembly Processes of Octahedron-shaped Pd₆L₁₂ Cages (Grad. Sch. Arts and Sci., The Univ. of Tokyo) KOMINE, Shohei; TATEISHI, Tomoki; OKOJIMA, Tatsuo; NAKAGAWA, Haruna; HAYASHI, Yasuhiro; TAKAHASHI, Satoshi; HIRAOKA, Shuichi

3H3-50[#] Design and Synthesis of Multi-Joint Macrocyclic Compounds (Fac. Eng., The Univ. of Tokyo) OWATANABE, Takuya; SATO, Hiroshi; AIDA, Takuzo

3H3-51 Synthesis of Supramolecular Cages Using C-Pivot Type Triple-Helical Metal Complexes (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) OMOROZUMI, Takuma; MATSUOKA, Ryota; NABESHIMA, Tatsuya

Tuesday, March 19, AM

Chair: SHIMIZU, Soji (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4H3-01, 4H3-02, 4H3-03, 4H3-04, 4H3-06)

4H3-01 Development of orthogonal reaction systems based on site-isolation effect inside self-assembled porous complexes (School of Engineering, The University of Tokyo) OHORIE, Shumpei; DOMOTO, Yuya; FUJITA, Makoto

4H3-02 Assembly of a double-walled knotted cage (Grad. Sch. Eng., The Univ. of Tokyo) OTAMURA, Yukari; TAKEZAWA, Hiroki; FUJITA, Makoto

4H3-03 Construction of Three-Dimensional Interlocked Supramolecules by Utilizing Bent Metal Coordinations Assisted by Acetylene Interactions (Fac. Eng., The Univ. of Tokyo) OABE, Masahiro; DOMOTO, Yuya; FUJITA, Makoto

Molecular Machines

4H3-04^{}** Construction and solid-state dynamics of supramolecular hydrocarbon bearings (Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; Fac. Sci., TMU) OATSUNO, Taisuke; NAKAI, Yusuke; MANIWA, Yutaka; SATO, Sota; FUJITA, Masahiro; FUKUNAGA, Kengo; ISOBÉ, Hiroyuki

4H3-06 Unbiased rotational motions of an ellipsoidal guest in a tight yet pliable host (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Sci., Tohoku Univ.; ERATO, JST) OMIO, Tatsuru; SUN, Zhe; OKADA, Tomohiko; MATSUNO, Taisuke; SATO, Sota; KONO, Hirohiko; ISOBÉ, Hiroyuki

Chair: NAKAZONO, Kazuko (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H3-08, 4H3-10, 4H3-11, 4H3-12, 4H3-13)

4H3-08^{}** Synthesis of subphthalocyanine-stoppered [2]rotaxanes and their threading-dethreading behaviors of the ring unit (Grad. Sch. Eng., Kyushu Univ.; Fac. Sci., Univ. of Bath) OKAGE, Yuto; SHIMIZU, Soji; FURUTA, Hiroyuki; KOCIOK-KÖHN, Gabriele; PANTOS, G. Dan

4H3-10 Construction of higher-order peptide catenanes via C3-subunit design (Grad. Sch. Eng., The Univ. of Tokyo) OSAITO, Ami; SAWADA, Tomohisa; FUJITA, Makoto

4H3-11 Construction of a metal-linked peptide ring with a 7-crossing torus knot topology (Grad. Sch. Eng., The Univ. of Tokyo) OINOMATA, Yuuki; SAWADA, Tomohisa; FUJITA, Makoto

4H3-12 Development of a Molecular Shuttle with a Gate Function by Taking Advantage of Characteristics of Selenenyl Sulfides (Sch. Sci., Tokyo Tech.) OISHIKAWA, Riho; SASE, Shohei; GOTO, Kei

4H3-13 Synthesis of Rotaxanes with Phenanthroline Derivatives as Axles toward an External Stimuli-responsive Molecular Shuttle (Fac. Eng., OIT) MURAOKA, Masahiro; OYAMANE, Risa; MURATA, Michihisa; SHIZUMA, Motohiro

Chair: MURAOKA, Masahiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4H3-15, 4H3-16, 4H3-17, 4H3-18, 4H3-19, 4H3-20)

4H3-15 Induction of dynamic chirality through threading: effects of the ring size on the rate of racemization. (Grad. Sch. Eng., Univ. of Fukui) OKIMURA, Tomoya; MIYAGAWA, Shinobu; NAITO, Masaya; TOKUNAGA, Yuji

4H3-16 Kinetics and Thermodynamics of [2]Rotaxanes Bearing an Asymmetric Crown Ether (Grad. Sch. Eng., Univ. of Fukui) ONAITO, Masaya; FUJINO, Takaaki; MIYAGAWA, Shinobu; TOKUNAGA, Yuji

4H3-17 Reversible topology transformation of handcuff-type rotaxane (Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) OKAMOTO, Nami; NAKAZONO, Kazuko; TAKATA, Toshikazu

4H3-18 Induction of an asymmetric structure through double threading (Fac. Eng., Univ. of Fukui) OTAJIMA, Shinya; MIYAGAWA, Shinobu; NAITO, Masaya; TOKUNAGA, Yuji

4H3-19 Synthesis of helically chiral rotaxane and its shuttling in response to base and acid (Grad. Sch. Eng., Univ. of Fukui) OBAN, Hayato; KIMURA, Masaki; MIYAGAWA, Shinobu; NAITO, Masaya; TOKUNAGA, Yuji

4H3-20 Efficient synthesis of rotaxane-type circularly polarized luminescence

fluorophores by means of template-directed click chemistry (Fac. Pharm. Sci., Univ. of Toyama) ○MIYAOKA, Yuta; HAYASHI, Koichiro; SUGAWARA, Soma; OHISHI, Yuki; INOUE, Masahiko

Tuesday, March 19, PM

Chair: MAEDA, Hiromitsu (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4H3-28, 4H3-30, 4H3-31, 4H3-33)
- 4H3-28*** Synthesis of Molecular Gears with a Photo-responsive Braking System (Lab. Chem. Life Sci., Tokyo Tech.) ○TSUCHIDO, Yoshitaka; SANNO, Makoto; OSAKADA, Kohtaro
- 4H3-30** A rotaxane-based mechanophore with BODIPY derivatives exhibiting red fluorescence (RIES, Hokkaido Univ.) ○MURAMATSU, Tatsuya; SAGARA, Yoshimitsu; TAMAOKI, Nobuyuki
- 4H3-31**** Development of rotaxane-based supramolecular mechanophores (RIES, Hokkaido Univ.) ○SAGARA, Yoshimitsu; TAMAOKI, Nobuyuki
- 4H3-33** Synthesis of insulated metallosalen complexes and insulation effects on their stability and redox properties (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HARADA, Ryosuke; MASAI, Hiroshi; TERAU, Jun

Room H4
Bldg. 8 822

Organic Chemistry -Reaction and Synthesis-
Organometallic Compounds

Saturday, March 16, AM

Ru

Chair: MURAKAMI, Kei (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1H4-01, 1H4-02, 1H4-03, 1H4-04, 1H4-05, 1H4-06)
- 1H4-01** Ruthenium-Catalyzed Enantioselective Allylation of Indoles with Racemic Allylic Alcohols (Grad. Sch. Integrated Basic Sci., Nihon Univ.; Coll. Hum. Sci., Nihon Univ.) ○MIZUNO, Shota; SHINOZAWA, Toru; TSUJI, Hiroaki; KAWATSURA, Motoi
- 1H4-02** (Chiral Bicycloheptadiene)ruthenium(0)-Catalyzed Enantioselective Cross-Dimerization of Conjugated Dienes with Methyl Acrylate (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Department of Chemistry, National Taiwan Normal University) ○TANAKA, Yukino; KOMINE, Nobuyuki; WU, Hsyueh-liang; HIRANO, Masafumi
- 1H4-03[#]** Catalytic Asymmetric Carbene Transfer Reaction of Diazo Oxime Ethers with Olefines (Dept. Env. Life Sci., TUT) ○HO, Linh Da; SHIBATOMI, Kazutaka; IWASA, Seiji
- 1H4-04** Synthesis and Catalytic Activity of Ruthenium Complexes of Pentadentate N-Confused Porphyrin (Grad. Sch. Eng., Kyushu Univ.) ○FUKUYAMA, Kazuki; MIYAZAKI, Takaaki; MASHITA, Shunichi; DEGUCHI, Yuya; ISHIDA, Masatoshi; MORI, Shigeki; FURUTA, Hiroyuki
- 1H4-05** Ruthenium-Catalyzed ortho C-H Borylation of Arylphosphines (Sch. Sci., Tokyo Tech.) ○FUKUDA, Kazuishi; IWASAWA, Nobuharu; TAKAYA, Jun
- 1H4-06** Development of Ruthenium Complexes Bearing a Tetradentate Phosphine Ligand for Catalytic Acrylate Salt Synthesis (Sch. Sci., Tokyo Tech.) ○HIRATAKA, Yo; ITO, Tatsuyoshi; TAKAHASHI, Kohei; IWASAWA, Nobuharu

Chair: TAKAYA, Jun (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1H4-08, 1H4-09, 1H4-10, 1H4-11, 1H4-12, 1H4-13)
- 1H4-08** Ruthenium-Catalyzed Oxidation of Alcohols with Carbodiimide via Hydrogen Transfer (Dept. Pharm., Musashino Univ.) ○WATANABE, Azumi; MATSUYAMA, Mizuki; KATAKAWA, Kazuaki; SUEKI, Shunsuke; ANADA, Masahiro
- 1H4-09** Photoredox catalyzed selective benzylic oxidation under visible light irradiation (Grad. Sch. Sci., Nagoya Univ.) ○MIYAUCHI, Sakura; SAKAKIBARA, Yota; MURAKAMI, Kei; ITAMI, Kenichiro
- 1H4-10** Catalytic Production of Reactive Boronated Skipped Dienes for Building Blocks (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIMADA, Keita; KIYOTA, Sayori; MOMINE, Nobuyuki; HIRANO, Masafumi
- 1H4-11** Catalytic Production of Reactive Boryl Substituted Conjugated Trienes for Building Blocks (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KURAMOCHI, Ayumi; KIYOTA, Sayori; KOMINE, Nobuyuki; HIRANO, Masafumi
- 1H4-12** Simple and Efficient Method for Synthesis of Indoles and Benzofurans through Ruthenium Complex-Catalyzed Intramolecular Cyclization of 2-Alkynylanilines and 2-Alkynylphenols (Grad. Sch. Eng., Kyoto Univ.) ○TOYODA, Takahiro; DI, Yuanjun; KIMURA, Yu; KONDO, Teruyuki
- 1H4-13** Regioselective addition of disulfide to allenes using a ruthenium

catalyst. (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Ryosuke; DI, Yuanjun; KIMURA, Yu; KONDO, Teruyuki

Chair: ANO, Yusuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1H4-15, 1H4-16, 1H4-17, 1H4-19)
- 1H4-15** DMF-stabilized ruthenium nanoparticles catalyzed synthesis of β -alkylated primary alcohols (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NAGATA, Tatsuki; SUZUKI, Takeyuki; OBORA, Yasushi
- 1H4-16** Selective C-H Monoarylation of Aromatic Ketones Using Trialkylphosphine Ruthenium Catalysts (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Issei; KONDO, Hikaru; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1H4-17**** Development of In Situ Generated Ruthenium Phosphine Catalysts for Selective Arylation of Aromatic Compounds via C-O Bond Cleavage and Asymmetric Synthesis (Fac. Sci. Tech., Keio Univ.) ○KONDO, Hikaru; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 1H4-19**** Development of Highly Active Ru Catalysts for Selective Hydrogenation of Carboxylic Acids (Grad. Sch. Sci., Nagoya Univ.) ○YOSHIOKA, Shota; SAITO, Akari; NARUTO, Masayuki; SAITO, Susumu

Saturday, March 16, PM

Ir

Chair: FUJITA, Kenichi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1H4-28, 1H4-29, 1H4-30, 1H4-32)
- 1H4-28** Acceleration of *meta*-Selective C-H Borylation of Aromatic Compounds and Expression of Substrate Specificity by the Improvement of a Ligand with Hydrogen Bond Donor Moiety (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.; Grad. Sch. Pharm., The Univ. of Tokyo) ○LU, Xu; YOSHIGOE, Yusuke; IDA, Haruka; NISHI, Mitsumi; KANAI, Motomu; KUNINOBU, Yoichiro
- 1H4-29[#]** *meta*-Selective Functionalizations of Aromatic Compounds via Iridium-catalyzed C-H Borylation (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○WANG, Jie; TORIGOE, Takeru; KUNINOBU, Yoichiro
- 1H4-30**** C(sp³)-H Cyanation Promoted by Visible-Light Photoredox/Phosphate Hybrid Catalysis (Grad. Sch. Pharm., The Univ. of Tokyo) ○WAKAKI, Takayuki; SAKAI, Kentaro; ENOMOTO, Takafumi; KONDO, Mio; MASAOKA, Shigeyuki; OISAKI, Kounosuke; KANAI, Motomu
- 1H4-32**** C-H Borylation Using Mechanochemistry (Grad. Sch. Eng., Hokkaido Univ.) ○PANG, Yadong; ISHIYAMA, Tatsuo; KUBOTA, Koji; ITO, Hajime

Chair: KANYIVA, Stephen-kyalo (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1H4-35, 1H4-37, 1H4-39, 1H4-40)
- 1H4-35**** Efficient and Versatile Method for N-Methylation of Amines Catalyzed by NHC Iridium Complexes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○TOYOOKA, Genki; TSUJI, Akiko; FUJITA, Kenichi
- 1H4-37**** Catalytic Asymmetric Borylation of Methylene C-H Bonds (Fac. Sci., Hokkaido Univ.) ○REYES, Ronald; IWAI, Tomohiro; MAEDA, Satoshi; SAWAMURA, Masaya
- 1H4-39** Iridium-Catalyzed Cycloisomerization of Allyl Phenyl Ethers Giving 3-Hydroxydihydrobenzofuran Derivatives (Grad. Sch. Eng., Kyoto Univ.) ○KUSAKA, Satoshi; OHMURA, Toshimichi; SUGINOME, Michinori
- 1H4-40** Synthesis of 3-Methylindole Derivatives Based on Iridium-Catalyzed Dehydrogenation and C(sp³)-H Addition (Grad. Sch. Eng., Kyoto Univ.) ○YAGI, Kaito; OHMURA, Toshimichi; SUGINOME, Michinori

Chair: MIURA, Tomoya (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(1H4-42, 1H4-43, 1H4-44, 1H4-45, 1H4-46)
- 1H4-42** Iridium-Catalyzed Regioselective and Enantioselective C-H Conjugate Addition of Benzanilides to α, β -unsaturated esters and its Mechanism Study (Sch. Advanced Sci. Eng., Waseda Univ.) ○KURITA, Hisaki; TAKASHIMA, Chinami; IKABATA, Yasuhiro; TAKANO, Hideaki; KANYIVA, Kyalo Stephen; NAKAI, Hiromi; SHIBATA, Takanori
- 1H4-43** Iridium-Catalyzed Dehydrogenative Coupling of Aromatic Carboxylic Acids with Internal Alkynes (Grad. Sch. Sci., Osaka City Univ.) ○HIROSAWA, Keishi; SATOH, Tetsuya; USUKI, Yoshinosuke
- 1H4-44** Iridium-Catalyzed Intramolecular Hydroarylation (Grad. Sch. Sci., Osaka City Univ.) ○SAKAMOTO, Kana; NISHIMURA, Takahiro
- 1H4-45** Iridium-Catalyzed C-H Alkylation of *N*-Sulfonyl Acrylamides with Electron-Deficient Conjugated Dienes and the Subsequent Cyclization (Grad. Sch. Sci., Osaka City Univ.) ○MURAKAMI, Kotone; NAGAMOTO, Midori; NISHIMURA, Takahiro
- 1H4-46** Iridium-Catalyzed Direct Addition of a C-H bond of an *N*-Methyl Group to 1,1-Disubstituted Alkenes (Grad. Sch. Sci., Osaka City Univ.) ○NAKAMURA, Ikumi; NAGAI, Masaki; NISHIMURA, Takahiro

Chair: NISHIMURA, Takahiro (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(1H4-48, 1H4-49, 1H4-50,

1H4-51, 1H4-52)

- 1H4-48** Iridium-Catalyzed [2+2+2] Cycloaddition of Bithiophene-Linked Dienes with Nitriles (Coll. Sci. Eng., Aoyama Gakuin Univ.)
○URASAWA, Kazuki; HOSAKA, Hiromi; TANIGAWA, Masato; TAKEUCHI, Ryo
- 1H4-49** Iridium catalyzed C2-extension reaction of primary alcohols using ethanol (Fac. Chem. Materials and Bioeng., Kansai Univ.)
○KOBAYASHI, Masaki; YOSHIMURA, Keisuke; ITOH, Satoshi; OBORA, Yasushi
- 1H4-50** Photo-Induced Generation of Cyanomethyl Radicals from Phosphorous Ylides and Addition to Alkenes (Grad. Sch. Eng., Kyoto Univ.)
○MORIYAMA, Daisuke; FUNAKOSHI, Yuuta; MIURA, Tomoya; MURAKAMI, Masahiro
- 1H4-51** Iridium-Catalyzed Enantioselective Allylation of Indoles with 1-Alken-4-yn-3-ols via Kinetic Resolution (Coll. Sci. Eng., Aoyama Gakuin Univ.)
○YSUMURA, Yuki; YANASE, Nanami; TAKEUCHI, Ryo
- 1H4-52** Iridium-Catalyzed Enantioselective Allylation of Indoles via Dynamic Kinetic Asymmetric Transformation (Coll. Sci. Eng., Aoyama Gakuin Univ.)
○SUGIURA, Hikaru; TAKEUCHI, Ryo

Chair: KUNINOBU, Yoichiro (17 : 50~18 : 40)

* 17:40-17:50: interval for laptop PC connection.(1H4-54, 1H4-55, 1H4-56, 1H4-57, 1H4-58)

- 1H4-54** Iridium-Catalyzed Chemo- and Enantioselective Hydrogenation of Pyridine Rings of Azaindoles (Grad. Sch. Sci., Kyushu Univ.)
○NAKAYAMA, Yuki; MAKIDA, Yusuke; KUWANO, Ryoichi
- 1H4-55[#]** Iridium-Mediated Arylation of Quinoline via the Cleavage of Carbon-Carbon and Carbon-Nitrogen Bonds of 1,3-Dimesitylimidazol-2-ylidene (Grad. Sch. Eng., Osaka Univ.)
○SAKURAI, Shun; TOBISU, Mamoru
- 1H4-56** Iridium-Catalyzed Decarbonylative Coupling of Acyl Fluorides with Arenes and Heteroarenes via Carbon-Hydrogen Bond Cleavage (Grad. Sch. Eng., Osaka Univ.)
○YOSHIDA, Tomoki; SAKURAI, Shun; TOBISU, Mamoru

Re

- 1H4-57** Catalytic Allylation Reaction of Active Methylene Compounds by Using α, β -Unsaturated Carbene Complex as a Key Intermediate (Sch. Sci., Tokyo Tech.)
○ARIO, Akane; WATANABE, Shoya; SOGO, Hideyuki; IWASAWA, Nobuharu
- 1H4-58** Rhenium-Catalyzed Cycloisomerization of ω -Ethylnilimines into 2-Methylenecycloalkane-1-amine Derivatives (Grad. Sch. Eng., Osaka Univ.)
FUKUMOTO, Yoshiya; ○TAKAMI, Yasuhiro; AZUMAGAWA, Kazuki; CHATANI, Naoto

Sunday, March 17, AM

V

Chair: IWASAKI, Takanori (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2H4-01, 2H4-02, 2H4-03, 2H4-04, 2H4-05, 2H4-06)

- 2H4-01[#]** Synthetic Study of Bismurayaquinone-A Using Chiral Vanadium Catalyst (ISIR, Osaka Univ.)
○PARK, Hanseok; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2H4-02[#]** Chiral Vanadium Complex-catalyzed Enantioselective Oxidative Hetero-coupling Reactions of Phenols (ISIR, Osaka Univ.)
○HIGASHIDA, Keigo; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2H4-03[#]** Chiral Vanadium Complex-Catalyzed Efficient Synthesis of Heterohelicenes (ISIR, Osaka Univ.)
○TAMORI, Yuki; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2H4-04[#]** Synthesis of 1,2,4-Azadiphosphole Derivatives Based on Vanadium-Catalyzed [2+2+1] Cycloaddition Reactions of Phosphaalkynes with Azobenzenes (Grad. Sch. Eng., The Univ. of Tokyo)
○LIANG, Wenbin; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 2H4-05[#]** Vanadium Complex-catalyzed One-pot Synthesis of Nitrogen Containing Aromatic Compounds (ISIR, Osaka Univ.)
○TAKIISHI, Tomohiro; SAKO, Makoto; TAKIZAWA, Shinobu; ZUMBRÄGEL, Nadine; GRÖGER, Harald; SASAI, Hiroaki
- 2H4-06[#]** Vanadium Complex-catalyzed Enantioselective *oxa*-Piancatelli Rearrangement Reaction (ISIR, Osaka Univ.)
○SAKO, Makoto; SCHÖBER, Lukas; TAKIZAWA, Shinobu; GRÖGER, Harald; SASAI, Hiroaki

Chair: TAKIZAWA, Shinobu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2H4-08, 2H4-09, 2H4-10, 2H4-12)

- 2H4-08[#]** Synthesis of Ketimines from Ketones and *N,N*-Bis(trimethylsilyl)anilines Catalyzed by Vanadium Complexes (Grad. Sch. Eng. Sci., Osaka Univ.)
○TSURUGI, Hayato; OCHI, Hibiki; KAWAKITA, Kento; MAHSIMA, Kazushi
- 2H4-09** Vanadium-catalyzed [2+2+1]-cycloaddition of Alkynes and Azobenzene for Synthesizing Multi-substituted Pyrroles (Grad. Sch. Eng. Sci., Osaka Univ.)
○KAKIUCHI, Yuya; KAWAKITA, Kento; BEAUMIER, Evan; TONKS, Ian; TSURUGI, Hayato; MASHIMA, Kazushi
- 2H4-10[#]** Mechanistic Study on Vanadium-catalyzed [2+2+1]-cycloaddition of

Alkynes and Azobenzenes (Grad. Sch. Eng. Sci., Osaka Univ.)
○KAWAKITA, Kento; KAKIUCHI, Yuya; BEAUMIER, Evan; TONKS, Ian; TSURUGI, Hayato; MASHIMA, Kazushi

Mo

- 2H4-12[#]** Directed Retro-Cyclopropanation with Metal-Quinone Complexes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○ASAKO, Sobi; KOBASHI, Takaaki; TAKAI, Kazuhiko

Cr

Chair: SAKO, Makoto (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2H4-15, 2H4-17, 2H4-18)

- 2H4-15^{*}** Cyclization of 1,6-Enynes Initiated by the Addition Reaction of gem-Dichloromethane Reagents to Alkynes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○MURAI, Masahito; TANIGUCHI, Ryuji; TAKAI, Kazuhiko
- 2H4-17** Cyclopropanation of Alkenes with Haloform in the Presence of an Organosilicon Reductant Catalyzed by Chromium Complexes (Sch. Eng. Sci., Osaka Univ.)
○NISHI, Kohei; IKEDA, Hideaki; TSURUGI, Hayato; MASHIMA, Kazushi
- 2H4-18[#]** Chromium-catalyzed Cyclopropanation of Alkenes using an Organosilicon Reductant (Grad. Sch. Eng. Sci., Osaka Univ.)
○IKEDA, Hideaki; NISHI, Kohei; TSURUGI, Hayato; MASHIMA, Kazushi

Sunday, March 17, PM

Ge

Chair: TSUCHIMOTO, Teruhisa (13 : 20~14 : 20)

* 13:10-13:20: interval for laptop PC connection.(2H4-27, 2H4-29, 2H4-30, 2H4-31, 2H4-32)

- 2H4-27[#]** Functionalization of Organogermanium Compounds: Stereoselective Synthesis of Triols and Regioselective Synthesis of dienes (Grad. Sch. Eng., Osaka Univ.)
○MINAMI, Yohei; KONISHI, Akihito; YASUDA, Makoto

Si

- 2H4-29** Catalytic Silylation of Aryl Halides with Disilanes Bearing Bulky Alkoxy Groups (Dep. Chem., Sch. Sci., Kyoto Univ.)
○FUKUI, Keitaro; SAITO, Hayate; SHIMOKAWA, Jun; YORIMITSU, Hideki
- 2H4-30** Palladium-catalyzed Aromatic C-H Silylation with Alkoxydisilane (Fac. Sci., Kyoto Univ.)
○FUKUNAGA, Hiroki; YAMAGISHI, Hiroki; SHIMOKAWA, Jun; YORIMITSU, Hideki
- 2H4-31** Development of Alkoxy-silyl Groups Bearing Both Stability and Reactivity (Dep. Chem., Sch. Sci., Kyoto Univ.)
○SAITO, Hayate; SHIMOKAWA, Jun; YORIMITSU, Hideki
- 2H4-32** Silicon-Silicon Bond Formation with Silylborane Ate Complex (Grad. Sch. Eng., Hokkaido Univ.)
○SHISHIDO, Ryosuke; KUBOTA, Koji; ITO, Hajime

Chair: SHIMOKAWA, Jun (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(2H4-34, 2H4-35, 2H4-36, 2H4-37, 2H4-38)

- 2H4-34** Hydrosilylation of Alkynes Catalyzed by a Quaternary Ammonium Salt (Sch. Sci. Eng., Meiji Univ.)
○NAKAMURA, Kosuke; TSUCHIMOTO, Teruhisa
- 2H4-35** Zinc-Catalyzed Dehydrogenative O-Silylation of α, β -Unsaturated Ketones with Hydrosilanes (Sch. Sci. Eng., Meiji Univ.)
○YONEKURA, Kyohei; ITO, Tatsuya; MATSUI, Fumiya; TSUCHIMOTO, Teruhisa

Sn

- 2H4-36** Synthesis and characterization of isolable stannabenzene (Grad. Sch. Eng., Nagoya Univ.)
○KAIYA, Canon; SUZUKI, Katsunori; YAMASHITA, Makoto
- 2H4-37[#]** Novel Synthesis of Homopropargylic Alcohols Using Trialkylboranes as a Free Radical Initiator and an Alkylating Agent (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama)
○MURKAMI, Miki; WATANABE, Airo; HORINO, Yoshikazu; ABE, Hitoshi
- 2H4-38[#]** Control of Regio- and Stereoselectivities in Allylation with α -Amino Allylic Stannanes (Grad. Sch. Eng., Osaka Univ.)
○SUZUKI, Kensuke; NISHIMOTO, Yoshihiro; YASUDA, Makoto

B

Chair: SUZUKI, Katsunori (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(2H4-41, 2H4-42, 2H4-43, 2H4-44, 2H4-45)

- 2H4-41** Synthesis of α -amino acyltrifluoroborates via catalytic borylation and oxidation (Grad. Sch. Eng., Hokkaido Univ.)
○TAKEUCHI, Takumi; TAGUCHI, Jumpei; TAKAHASHI, Rina; ITO, Hajime
- 2H4-42** Synthesis of Boron-containing Heterocyclic Compounds by Imine Formation/Cyclization of Acylboron Compounds (Sch. Eng., Hokkaido

Univ.) ○MATSUURA, Satsuki; TAGUCHI, Jumpei; SEKI, Tomohiro; ITO, Hajime

2H4-43 1,2-Diboration of Alkenes by Means of Sodium Metal and Trialkoxyborane (Kyoto University, Graduate School of Science; Dep. Chem., Sch. Sci., Kyoto Univ.) ○FUKAZAWA, Mizuki; TAKAHASHI, Fumiya; NOGI, Keisuke; YORIMITSU, Hideki

2H4-44 1,2-Diboration of Alkynes by Means of Strong Reduction by Sodium Metal (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKAHASHI, Fumiya; NOGI, Keisuke; YORIMITSU, Hideki

In

2H4-45 Regio- and Stereoselective Allylindation of Alkynes Using Indium Tribromide and Allylic Silanes (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○YI, Junyi; YASUDA, Makoto

Chair: KUBOTA, Koji (16 : 40~17 : 30)

* 16:30-16:40: interval for laptop PC connection.(2H4-47, 2H4-48, 2H4-49, 2H4-50, 2H4-51)

2H4-47 Regio- and Stereoselective Synthesis of Aminoalkenylindiums by Carboidation of Ynamides Using Indium Tribromide and Organosilicon Nucleophiles (Grad. Sch. Eng., Osaka Univ.) KANG, Kyoungmin; ○SAKAMOTO, Kosuke; NISHIMOTO, Yoshihiro; YASUDA, Makoto

2H4-48[#] Anti-carboidation of thioacetylenes using organosilicon nucleophiles and indium salts (Grad. Sch. Eng., Osaka Univ.) ○KANG, Kyoungmin; NISHIMOTO, Yoshihiro; YASUDA, Makoto

2H4-49[#] Synthesis, Luminescence Properties, and Synthetic Application of Multi-Substituted 2-Pyrones Including a Carbon-Indium Bond (Grad. Sch. Eng., Osaka Univ.) ○YATA, Tetsuji; KITA, Yuji; NISHIMOTO, Yoshihiro; YASUDA, Makoto

Al

2H4-50 Selective Synthesis of Benzothiophenes and Benzothiophene Oxides Using Diisobutylaluminum Hydride (Grad. Sch. Sci., Eng., Saitama Univ.)

○UCHIDA, Seiya; KINOSHITA, Hidenori; MIURA, Katsukiyo

2H4-51 Aluminium Reagents-Promoted One-Pot Synthesis of Multisubstituted Naphthalenes from 1-Alkenyl-2-ethynylbenzenes (Grad. Sch. Sci., Eng., Saitama Univ.) ○NONOYAMA, Yuma; KINOSHITA, Hidenori; MIURA, Katsukiyo

Monday, March 18, AM

Mn

Chair: OISAKI, Kounosuke (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3H4-01, 3H4-02, 3H4-03, 3H4-04, 3H4-05, 3H4-06)

3H4-01 Synthesis and Catalytic Application of Alkoxide-Bridged Multinuclear Metal Complexes for Esterification of Amides (Grad. Sch. Eng. Sci., Osaka Univ.) ○HIRAI, Takahiro; KATO, Daiki; SOMA, Shusei; AKEBI, Shin-ya; NAGAE, Haruki; MASHIMA, Kazushi

3H4-02 Catalytic Transesterification Mediated by Alkoxide-bridged Cubic Tetranuclear Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○KATO, Daiki; AKEBI, Shin-ya; HIRAI, Takahiro; SOMA, Shusei; NAGAE, Haruki; MASHIMA, Kazushi

3H4-03 Transamidation of Tertiary Amides Using Alkoxy-Bridged Tetranuclear Complexes (Sch. Eng. Sci., Osaka Univ.) ○SOMA, Shusei; HIRAI, Takahiro; KATO, Daiki; SHIN-YA, Akebi; NAGAE, Haruki; MASHIMA, Kazushi

Co

3H4-04 Neighboring effects in Pauson-Khand Reaction (Grad. Sch. Life Sci., Tohoku Univ.) ○ASANO, Shota; ITTO, Kaori; ARIMOTO, Hirokazu

3H4-05 Asymmetric Synthesis of Azabicyclic Compounds by Cobalt-catalyzed Ring-reconstructive Desymmetrization of Isoxazole-5(4H)-ones (Grad. Sch. Eng., Kyoto Univ.) ○EGUCHI, Akira; MATSUSHITA, Gaku; SHIMBAYASHI, Takuya; OKAMOTO, Kazuhiro; OHE, Kouichi

3H4-06 DMF-protected cobalt nanoparticles catalyzed hydrosilylation of olefins with hydrosilanes (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KURODA, Yushi; SUZUKI, Takeyuki; OBORA, Yasishi

Chair: ILIES, Laurean (10 : 10~11 : 20)

* 10:00-10:10: interval for laptop PC connection.(3H4-08, 3H4-09, 3H4-10, 3H4-12, 3H4-13, 3H4-14)

3H4-08 Cobalt(II)-Catalyzed Acyloxylation of Carbon-Hydrogen Bonds in Aromatic Amides Using a Bidentate Directing Group (Grad. Sch. Eng., Osaka Univ.) ○UENO, Rina; NATSUI, Satoko; CHATANI, Naoto

3H4-09[#] Cobalt(II)-Catalyzed Bidentate-Chelation Assisted C-H Iodination of Aromatic Amides with Molecular Iodine (Grad. Sch. Eng., Osaka Univ.) ○KOMMAGALLA, Yadagiri; CHATANI, Naoto

Zn

3H4-10[#] Novel and Practical Synthesis of SGLT2 Inhibitors by Pd- and Ni-catalyzed Fukuyama Coupling Reaction (Grad. Sch. Eng. Sci., Osaka Univ.; Tokuyama Corp.) ○TALODE, Jalindar Bhausaheb; TSURUGI, Hayato; SEKI, Masahiko; MASHIMA, Kazushi

3H4-12 Singlet oxygen generation properties by photo irradiation to cationized chlorin metal complexes (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.; Grad. Sch. Fac. Sci. Eng., Shimane Univ.; ADRES, Ehime Univ.) ○YAMAGUCHI, Maki; TAKESHITA, Syo; HUIJISHIRO, Rei; FUJIMURA, Takuya; SASAI, Ryo; MORI, Shigeki; IKEUE, Takahisa

3H4-13 The singlet oxygen generation properties of directly linked diporphyrins (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○TOKURA, Azusa; HOSODA, Haruka; OZAKI, Syunsuke; FUJISHIRO, Rei; FUJIMURA, Takuya; SASAI, Ryo; IKEUE, Takahisa

Fe

3H4-14 Syntheses and magnetic properties of iron(III) porphyrin complexes introduced with two diarylamino groups at *meso* positions (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.; Grad. Sch. Fac. Sci. Eng., Shimane Univ.) ○SADAYUKI, Maho; OZEKI, Masaya; FUJISHIRO, Rei; IKEUE, Takahisa

Chair: NAGAE, Haruki (11 : 30~12 : 30)

* 11:20-11:30: interval for laptop PC connection.(3H4-16, 3H4-17, 3H4-18, 3H4-19, 3H4-20, 3H4-21)

3H4-16 Novel synthesis method of vinylketenimine-iron complexes (Grad. Sch. Eng., KIT) ○TERATANI, Kohei; OKAUCHI, Tatsuo; KITAMURA, Mitsuru; SHIMOOKA, Hirokazu

3H4-17 Synthesis and Reactivity of Iron-Zinc Multinuclear Complexes Bearing PXP-Pincer Type Ligands (X = Si, Ge) (Sch. Sci., Tokyo Tech.) ○TAKIZAWA, Kai; MIURA, Norio; ITO, Tatsuyoshi; TAKAYA, Jun; IWASAWA, Nobuharu

3H4-18[#] Homocoupling-free iron-catalyzed oxidative cross-coupling of aromatics via transient connection of reactants (Org. Int. Res. Pro., The Univ. of Tokyo) ○DOBA, Takahiro; MATSUBARA, Tatsuaki; ILIES, Laurean; RUI, Shang; NAKAMURA, Eiichi

3H4-19[#] Iron-Catalyzed Suzuki-type Coupling between Lithium Alkenylborates and Propargyl Electrophiles (ICR, Kyoto Univ.) ○LU, Siming; AGATA, Ryosuke; ISOZAKI, Katsuhiko; NAKAMURA, Masaharu

3H4-20 Iron(III) Porphyrin-Catalyzed Aerobic Oxidation of Carbon-Carbon Unsaturated Bond (Grad. Sch. Eng., Kyoto Univ.) ○KIMURA, Kento; KURAHASHI, Takuya; MATSUBARA, Seiji

3H4-21 Iron-Catalyzed ortho-Functionalization of Aromatic Ketones Using Methylenechloropropanes (Fac. Sci. Tech., Keio Univ.) ○KIMURA, Naoki; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Monday, March 18, PM

Au

Chair: IWAI, Tomohiro (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(3H4-29, 3H4-31, 3H4-32, 3H4-33, 3H4-34)

3H4-29[#] Gold(I)-Catalyzed Construction of Nitrogen-Containing Medium-Sized Ring Systems by Cycloisomerization and Azaspirocyclic System by Dearomatization (Sch. Advanced Sci. Eng., Waseda Univ.) ○ITO, Mamoru; KAWASAKI, Ryosuke; INOUE, Daisuke; TAKAKI, Asahi; KANYIVA, Kyallo Stephen; SHIBATA, Takanori

3H4-31 Synthesis of Dibenzodiazecine Derivatives via 10-endo-dig-Selective Au(I)-Catalyzed Cycloisomerization (Sch. Advanced Sci. Eng., Waseda Univ.) ○INOUE, Daisuke; ITO, Mamoru; KANYIVA, Stephen Kyallo; SHIBATA, Takanori

3H4-32 Silylation of aryl halides by Pd-Au alloy catalysts (Grad. Sch. Urban Env. Sci., TMU; ESICB, Kyoto Univ.) ○MASAKI, Yousuke; MIURA, Hiroki; SHISHIDO, Tetsuya

3H4-33 Hydroarylation Reactions Catalyzed by Diphosphene-Gold(I) Complexes (Grad. Sch. Sci., Osaka Pref. Univ.) ○URA, Rikako; TSURUSAKI, Akihiro; KAMIKAWA, Ken

3H4-34 Gold-catalyzed skeletal rearrangement of alkynyl sulfinylimines (Graduate School of science, Tohoku University; Grad. Sch. Sci., Tohoku Univ.) ○TASHIRO, Hiroki; NAKAMURA, Itaru; TERADA, Masahiro

Room H5

Bldg. 8 823

Organic Chemistry -Reaction and Synthesis-
Organometallic Compounds

Saturday, March 16, AM

Pd

Chair: ANO, Yusuke (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1H5-01, 1H5-02, 1H5-03, 1H5-04, 1H5-05, 1H5-06)

1H5-01 Palladium-Catalyzed Allylic Amination under Atmospheric Air (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○SAITO, Sunaho; YURINO, Taiga; OHKUMA, Takeshi**1H5-02** Pd catalyzed allylic alkylation of β -ketocarbonyl compounds under atmospheric air (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YAMASHITA, Hiroyuki; YURINO, Taiga; OHKUMA, Takeshi**1H5-03** Palladium-Catalyzed Coupling Reaction of Aldehyde with 3-Hydroxy-4-pentenoic Acid as an Equivalent of Conjugated Diene (Grad. Sch. Eng., Nagasaki Univ.) ○NAKAO, Junya; NINOKATA, Ryo; KOROGI, Rihou; FUKUDA, Tsutomu; ONODERA, Gen; KIMURA, Masanari**1H5-04** Pd-Catalyzed Dearomative Allylation of Aromatic Cyanohydrin Derivatives (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○YANAGIMOTO, Aika; KOMATSUDA, Masaaki; MUTO, Kei; YAMAGUCHI, Junichiro**1H5-05** Pd-Catalyzed Dearomative Allylation of Benzyl Ammoniums (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KAYASHIMA, Yuki; KOMATSUDA, Masaaki; MUTO, Kei; YAMAGUCHI, Junichiro**1H5-06** Pd-Catalyzed Dearomative Three-Component Reaction of Aryl Halides with Diazo Compounds and Allyl borates (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KOMATSUDA, Masaaki; MUTO, Kei; YAMAGUCHI, Junichiro

Chair: MUTO, Kei (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H5-08, 1H5-10, 1H5-11, 1H5-12, 1H5-13)

1H5-08* Solid-State C-N Coupling Reaction Using Mechanochemistry (Grad. Sch. Eng., Hokkaido Univ.) ○KUBOTA, Koji; SEO, Tamae; KOIDE, Katsumasa; HASEGAWA, Yasuchika; ITO, Hajime**1H5-10** Solid-State C-C Coupling Reaction Using Mechanochemistry (Grad. Sch. Eng., Hokkaido Univ.) ○SEO, Tamae; ISHIYAMA, Tatsuo; KUBOTA, Koji; ITO, Hajime**1H5-11** Synthesis of phosphine-ligated palladium complexes using mechanochemistry (Grad. Sch. Eng., Hokkaido Univ.) ○TAKAHASHI, Rina; KUBOTA, Koji; ITO, Hajime**1H5-12** Palladium-Catalyzed Synthesis of Nitriles from Cyclobutanone Hydrazones via the Cleavage of Nitrogen-Nitrogen and Carbon-Carbon Bonds (Grad. Sch. Eng., Osaka Univ.) ANO, Yusuke; OHIGASHINO, Masaya; CHATANI, Naoto**1H5-13*** Palladium-Catalyzed Regioselective Benzylic C(sp³)-H Alkylation in Aromatic Amides with Maleimides (Grad. Sch. Eng., Osaka Univ.) ○HE, Qiyan; ANO, Yusuke; CHATANI, Naoto

Chair: NISHII, Yuji (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H5-15, 1H5-16, 1H5-17, 1H5-19)

1H5-15 Synthesis of Trifluoromethyl Group Substituted 1,3-Enynes by the Palladium-Catalyzed Alkynylation of 2,3,3-Trifluoroallylic Carbonates with Terminal Alkynes (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○MOCHIZUKI, Atsushi; HOSHINO, Yuji; TSUJI, Hiroaki; KAWATSURA, Motoi**1H5-16** Pd-Catalyzed Hydride Reduction of Trifluoroallylic Carbonates with Formic Acid (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○FUTAKI, Shota; OTAKE, Keisuke; TUJI, Hiroaki; KAWATSURA, Motoi**1H5-17*** Ester Dance Reaction of Aromatic Esters by Pd Catalysis (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MATSUSHITA, Kaoru; OKITA, Toshimasa; MUTO, Kei; YAMAGUCHI, Junichiro**1H5-19**** Palladium-catalyzed annulative π -extension (APEX) reaction of aromatic compounds with diiodobiaryls (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○MATSUOKA, Wataru; KITANO, Hiroyuki; ITO, Hideto; ITAMI, Kenichiro

Saturday, March 16, PM

Chair: ITO, Hideto (13 : 40 ~ 14 : 40)

* 13:30-13:40: interval for laptop PC connection.(1H5-29, 1H5-30, 1H5-31, 1H5-32, 1H5-33)

1H5-29 Palladium-Catalyzed Intramolecular Mizoroki-Heck-type Reaction of Diarylmethyl Carbonates (Grad. Sch. Eng., Osaka Univ.) ○MATSUDE,

Akihiro; HIRANO, Koji; MIURA, Masahiro

1H5-30 Dinuclear Palladium Complex-Catalyzed Aerobic Oxygenation of Aryl Benzyl Ketones (Dept. Pharm., Musashino Univ.) ○YAMADA, Kotono; SUGANO, Rina; ZAITSU, Yuto; AIDA, Fuyuki; SHIMIZU, Isao; KATAKAWA, Kazuaki; SUEKI, Shunsuke; ANADA, Masahiro**1H5-31** Palladium-Catalyzed Dehydrogenative Synthesis of Substituted Benzenes from Propylketones and Allyl Carbonates (Sch. Eng., TUT) ○KOIKE, Kenta; UENO, Satoshi**1H5-32** Unusual Regioselectivity in Palladium-Catalyzed Cyclization of Nucleophile-Tethered 2-Bromo-1,3-dienes (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○KONISHI, Takuma; ICHIO, Hiroaki; OGASAWARA, Masamiti**1H5-33*** Development of the Highly Efficient Hiyama Coupling Reaction Using Ppm Loading Amount of a Palladium-NNC Pincer Complex (Sch. Physical Sci., SOKENDAI; LCCMS, IMS; JST-ACCEL) ○ICHII, Shun; HAMASAKA, Go; UOZUMI, Yasuhiro

Chair: UENO, Satoshi (14 : 50 ~ 15 : 50)

* 14:40-14:50: interval for laptop PC connection.(1H5-36, 1H5-38, 1H5-39, 1H5-40, 1H5-41)

1H5-36** Desulfonylative Transformations of α -Fluorinated Benzylic Sulfones (WPI-ITbM, Nagoya Univ.) ○NAMBO, Masakazu; YIM, Jacky C.-H.; TAHARA, Yasuyo; FREITAS, Luiza B. O.; MAEKAWA, Yuuki; ARIKI, Zachary T.; CRUDDEN, Cathleen M.**1H5-38** Pd-Catalyzed Tandem Annulation of o-Alkynylanilines via C-N/pericyclic Bond Cleavage (Grad. Sch. Sci., Tohoku Univ.) ○SUZUKI, Shin; JIN, Tianan; TERADA, Masahiro**1H5-39** Synthesis of pyridine ligands bearing poly(ethylene glycol) chains and their application in palladium-catalyzed reactions (Grad. Sch. Eng., Kyoto Univ.) ○KIYOOKA, Arata; SATOU, Motoi; FUJIHARA, Tetsuaki; TSUJI, Yasushi**1H5-40** Palladium-Catalyzed Acyl-Exchange Reaction between Acyl Fluorides and Carboxylic Anhydrides, and Its Application to Synthesis of Acyl Fluorides (Fac. Sci. Technol., TUS) ○HOSAKA, Shintaro; OGIWARA, Yohei; SAKAI, Norio**1H5-41** Synthesis and Application of Unsymmetric Chiral Bisphosphine Ligand Having Diferrocenylphosphino-Donor Moiety (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○ICHIRYU, Hiroki; HU, Hao; URA, Yasuyuki; OGASAWARA, Masamichi

Chair: FUJIHARA, Tetsuaki (16 : 00 ~ 17 : 00)

* 15:50-16:00: interval for laptop PC connection.(1H5-43, 1H5-44, 1H5-45, 1H5-46, 1H5-47, 1H5-48)

1H5-43 Palladium-Catalyzed C-N Coupling of Aryl Triflates with Pyrazole Derivatives (Fac. Sci. Tech., Keio Univ.) ○ONODERA, Shunsuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi**1H5-44** Pd-catalyzed intermolecular coupling of acylsilanes with allyl halides under photoirradiation conditions. (Fac. Sci., Gakushuin Univ.) ○FUJIKURA, Yuta; TANIGAWA, Yuki; YAMAGUCHI, Kohei; ISHIDA, Kento; KUSAMA, Hiroyuki**1H5-45** Mechanistic Studies on Palladium-Catalyzed Transfer Hydration of Cyanohydrins (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○NARAOKA, Asuka; KANDA, Tomoya; NAKA, Hiroshi**1H5-46*** Facile Synthesis of Allylamines via Intermolecular Aza-Wacker-Type Reaction Promoted by a Pd-SPRIX Catalyst (ISIR, Osaka Univ.) SEN, Abhijit; ○TAKENAKA, Kazuhiro; SASAI, Hiroaki**1H5-47** Palladium-catalyzed asymmetric double etherification of 2-chloroallylic acetates (Grad. Sch. Integrated Basic Sci., Nihon Univ.; Coll. Hum. Sci., Nihon Univ.) ○HONDA, Hiromi; KOGAWA, Masaki; TSUCHI, Yukiko; TSUJI, Hiroaki; KAWATSURA, Motoi**1H5-48** Suzuki-Miyaura Cross-Coupling of Aryl-B(dan) (Fac. Sci., TUS) ○YAMAMOTO, Kensuke; MUTOH, Yuichiro; SAITO, Shinichi

Chair: KOCHI, Takuya (17 : 10 ~ 18 : 10)

* 17:00-17:10: interval for laptop PC connection.(1H5-50, 1H5-51, 1H5-52, 1H5-53, 1H5-54, 1H5-55)

1H5-50 Palladium-Catalyzed Insertion of Alkynes into C-S Bonds of Heteroaryl Sulfides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○UNO, Daisuke; NOGI, Keisuke; YORIMITSU, Hideki**1H5-51** Palladium-Catalyzed C-H Alkoxylation of Aryl Sulfoxides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SATO, Tomohiko; UNO, Daisuke; MINAMI, Hiroko; NOGI, Keisuke; YORIMITSU, Hideki**1H5-52** Pd-catalyzed reaction of CF₃-group substituted propargylic alcohols with arylboronic acids (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○IWAKAMI, Kosuke; MURAKAMI, Shogo; SONEHARA, Taro; TSUJI, Hiroaki; KAWATSURA, Motoi**1H5-53** Alkylation of Methylquinoline by Ti-Pd Alloy Catalysts Involving Hydrogen Autotransfer (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○UTSUNOMIYA, Masayoshi; KONDO, Ryota; OBORA, Yasushi**1H5-54** Pd-Catalyzed Deoxygenative C-P bond formation of Aromatic Esters (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KUROSAWA, Miki; ISSHIKI, Ryota; MUTO, Kei; YAMAGUCHI, Junichiro**1H5-55*** Effect of Phosphine Ligands on Pd-catalyzed Cyclative Hydroamination (ISIR, Osaka Univ.) ○KUSABA, Miki; TAKENAKA, Kazuhiro; SASAI, Hiroaki

Chair: NOGI, Keisuke (18 : 20~18 : 50)

- * 18:10-18:20: interval for laptop PC connection.(1H5-57, 1H5-58, 1H5-59)
1H5-57 C-H arylation of cubane (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST, JST ERATO) ○OKUDE, Ryo; YAGI, Akiko; ITAMI, Kenichiro
1H5-58 Pd/NHC-Catalyzed Regioselective Suzuki-Miyaura Arylation of 2-Arylazetidines (Grad. Sch. Eng., Osaka Univ.) ○TOYODA, Kazuya; TAKEDA, Youhei; MINAKATA, Satoshi
1H5-59 Highly Enantioselective Catalytic Synthesis of Axially Chiral Biaryls by the Suzuki-Miyaura Cross-coupling Reaction with Water-soluble Helical Polymer Ligands in Aqueous Media (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○KAMIYA, Naoaki; SUGINOME, Michinori

Sunday, March 17, AM

Chair: OGIWARA, Yohei (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2H5-01, 2H5-02, 2H5-03, 2H5-04, 2H5-05, 2H5-06)
2H5-01 Pd-catalyzed alkenyl sulfide synthesis using thioester and N-tosylhydrazide (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○ISHITOBI, Kota; LIM, Cassandra; MUTO, Kei; YAMAGUCHI, Junichiro
2H5-02 Palladium-Catalyzed Asymmetric Allylic Substitution of Indoles Using Axially Chiral Aminophosphine Ligands with 2-Adamantyl Group (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○YAMAGUCHI, Daiki; EBISAWA, Toshibumi; YOSHIDA, Yasushi; SAKAMOTO, Masami
2H5-03 Suzuki-Miyaura cross-coupling reaction of dan-substituted organoboranes through direct activation of the B(dan) moiety (Grad. Sch. Eng., Hiroshima Univ.) ○SEKI, Michinari; OSAKA, Itaru; YOSHIDA, Hiroto
2H5-04 Synthesis of Curved Polyaromatics by Octagon-forming Annulative Cross-Coupling (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○MATSUBARA, Satoshi; KOGA, Yoshito; MURAKAMI, Kei; ITAMI, Kenichiro
2H5-05 Synthesis of allylsilanes using allyl alcohol and disilane catalyzed by DMF-protected palladium nanoparticles. (Faculty of Chemistry, Materials and Bioengineering) ○ARAKAWA, Ryota; OBORA, Yasushi
2H5-06 Palladium Catalyzed Decarboxylative α -Alkynylation of ketone via C—O bond cleavage (Grad. Sch. Life Sci., Hokkaido Univ.) ○YABUTA, Akimasa; DOI, Ryohei; SATO, Yoshihiro

Chair: DOI, Ryohei (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H5-08, 2H5-09, 2H5-10, 2H5-11, 2H5-12, 2H5-13)
2H5-08 Enantioselective Allylboration of Aldehydes with 1,1-Di(boryl)alk-1-enes Catalyzed by Palladium and Chiral Phosphoric Acid (Sch. Eng., Kyoto Univ.) ○OKU, Naoki; MIURA, Tomoya; MURAKAMI, Masahiro
2H5-09 Palladium-Catalyzed Cyclization of Benzamide Derivatives for Construction of N-Heterocycles Bearing a Tetrasubstituted Allylic Carbon (Fac. Sci. Technol., TUS) ○SUZUKI, Yui; SATO, Kazuya; OGIWARA, Yohei; SAKAI, Norio
2H5-10 Introduction of amino and silyl groups to 1,3-diene by palladium complex catalyzed oxidative coupling reaction (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TORII, Kazuyuki; KAWAKUBO, Atsushi; LIN, Xiangjin; OBORA, Yasushi
2H5-11 Palladium-Catalyzed Reactions via 1,2-Shift of a Substituent on Silyl Group (Fac. Eng., Univ. of Toyama) ○ISHIBASHI, Mayo; NAKASAI, Kosuke; SUGITA, Tetsu; HORINO, Yoshikazu; ABE, Hitoshi
2H5-12 Synthesis and Application of *P*-Chiral Phosphine Ligands via Pd-catalyzed P-C Cross-Coupling Reaction (Grad. Sch. Sci., Eng., Ehime Univ.) ○SENO, Yurika; SADATOSHI, Kazuki; SOGABE, Shota; OHTA, Hidetoshi; HAYASHI, Minoru
2H5-13 Direct Acylation of Azoles Using Acyl Fluorides by Palladium/Copper Catalysis (Fac. Sci. Technol., TUS) ○IINO, Yurika; OGIWARA, Yohei; SAKAI, Norio

Ni

Chair: MIURA, Tomoya (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2H5-15, 2H5-16, 2H5-17, 2H5-18, 2H5-19, 2H5-20)
2H5-15 Nickel-Catalyzed Synthesis of Phosphole Derivatives via the Cleavage of Two Carbon-Phosphorus Bonds (Grad. Sch. Eng., Osaka Univ.) ○FUJIMOTO, Hayato; KUSANO, Momoka; TOBISU, Mamoru
2H5-16 Nickel-Catalyzed Alkylation of Aryl Phosphines via the Cleavage of Carbon-Phosphorus Bonds (Grad. Sch. Eng., Osaka Univ.) ○IGARASHI, Takuya; CHATANI, Naoto; TOBISU, Mamoru
2H5-17 Mechanistic studies for the nickel-catalyzed decarbonylation of amide derivatives (Grad. Sch. Eng., Osaka Univ.) ○NAKATANI, Syun; MORIOKA, Toshifumi; SAKAMOTO, Yuki; OGOSHI, Sensuke; CHATANI, Naoto; TOBISU, Mamoru
2H5-18 Nickel-Catalyzed Oxidative Cycloaddition of N-Heterocyclic Compounds with Alkynes (Grad. Sch. Eng., Osaka Univ.) ○SASAGAWA, Akane; CHATANI, Naoto
2H5-19 Nickel(II)-Catalyzed Reaction of Aromatic Amides with Bicyclic Alkenes through Carbon-Hydrogen and Carbon-Nitrogen Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○SKHIRI, Aymen; CHATANI, Naoto

- 2H5-20** Synthesis of 3-Acylbenzofurans via Cleavage of Acyl C-O Bond of Esters by Nickel Catalysis. (Grad. Sch. Pharm., Hokkaido Univ.) ○IKEMOTO, Yuma; DOI, Ryohei; SATO, Yoshihiro

Sunday, March 17, PM

Chair: KURAHASHI, Takuya (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2H5-29, 2H5-31, 2H5-32, 2H5-33, 2H5-34)
2H5-29 Ni(0)/Chiral Phosphoramidite-Catalyzed Asymmetric Carbonylative Cycloaddition of Ene-Imines with CO (Grad. Sch. Eng., Osaka Univ.) ○ASHIDA, Keita; HOSHIMOTO, Yoichi; OHASHI, Masato; OGOSHI, Sensuke
2H5-31 Ni-Catalyzed Ester Transfer of Aromatic Esters to Haloarenes (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○INAYAMA, Naomi; ISSHIKI, Ryota; MUTO, Kei; YAMAGUCHI, Junichiro
2H5-32 Ni-Catalyzed Ester Transfer of Aromatic Ester to Arenols (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○ISSHIKI, Ryota; INAYAMA, Naomi; MUTO, Kei; YAMAGUCHI, Junichiro
2H5-33 Nickel-Catalyzed Reductive Cleavage of Aromatic Esters Assisted by an Oxazolyl Directing Group (Grad. Sch. Eng., Osaka Univ.) ○TAKAHASHI, Kenjiro; IYORI, Yasuaki; YAMAZAKI, Ken; ANO, Yusuke; CHATANI, Naoto
2H5-34 Nickel-Catalyzed Reductive Cleavage of Ester Groups at the Ortho Position of Styrenes and Biphenyls (Grad. Sch. Eng., Osaka Univ.) ○IYORI, Yasuaki; ANO, Yusuke; CHATANI, Naoto

Chair: HOSHIMOTO, Yoichi (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2H5-36, 2H5-38, 2H5-40)
2H5-36 Development of Nickel-Catalyzed Cycloaddition of Benzothiophenes and Alkynes; DFT Calculation, Spectroscopy and Synthetic Experiment (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Toshifumi; INAMI, Tasuku; KURAHASHI, Takuya; MATSUBARA, Sejiro
2H5-38 Nickel-Catalyzed Decarbonylative Cyanation of Aroyl Chlorides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Okayama Univ.) ○WANG, Zhenhua; WANG, Xiu; NISHIHARA, Yasushi
2H5-40 Nickel-Catalyzed Decarbonylative Silylation of Aroyl Fluorides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Research Institute for Interdisciplinary Science.) ○WANG, Xiu; WANG, Zhenhua; LI, Liu; NISHIHARA, Yasushi

Chair: NAKAJIMA, Kazunari (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(2H5-43, 2H5-45, 2H5-46, 2H5-47, 2H5-48)
2H5-43 Nickel-Catalyzed C-H Coupling Reactions of Benzamides with Small-Sized Cyclic Ethers (Grad. Sch. Eng., Osaka Univ.) ○XU, Shibo; TAKAMATSU, Kazutaka; HIRANO, Koji; MIURA, Masahiro
2H5-45 Ni-catalyzed hydroboration of imines (Dept. of Chem. Eng., NIT, Nara College) KAMEI, Toshiyuki; ○ISHIBASHI, Hisayasu; NISHINO, Sohshi; SHIMADA, Toyoshi
2H5-46 Ni-Catalyzed Asymmetric Propargylic Amination of Propargylic Carbonates Bearing an Internal Alkyne Group (Coll. Hum. Sci., Nihon Univ.; Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○TSUJI, Hiroaki; WATANABE, Kouichi; MIYAZAKI, Yusuke; OKUBO, Masataka; ZHOU, Biao; KAWATSURA, Motoi
2H5-47 Development of Reductive Cross-Coupling Reactions of Aldehyde and Organohalogen Compounds by Nickel Catalysts (Grad. Sch. Eng., Kyoto Univ.) ○KAWABE, Kosuke; KURAHASHI, Takuya; MATSUBARA, Sejiro
2H5-48 Development of Reductive Coupling Reaction of Acid Anhydride and Organic Halide by Nickel Catalyst (Sch. Eng., Kyoto Univ.) ○ISHIDA, Kosuke; KURAHASHI, Takuya; MATSUBARA, Sejiro

Chair: HIRANO, Koji (17 : 10~17 : 40)

- * 17:00-17:10: interval for laptop PC connection.(2H5-50, 2H5-51, 2H5-52)
2H5-50 Synthesis and Reactivity of Fluoro Nickel(II) Complex via C-F Bond Cleavage of Trifluoromethylaromatics by Ni(0)/NHC Complexes (Grad. Sch. Eng., Osaka Univ.) ○IMIYA, Hiroto; OHASHI, Masato; OGOSHI, Sensuke
2H5-51 Nickel- and Photoredox-Catalyzed Hydroalkylation Reactions of Alkynes with 4-Alkyl-1,4-Dihydropyridines (Grad. Sch. Eng., The Univ. of Tokyo) ○GUO, Xifeng; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
2H5-52 Nickel-Catalyzed Carboxylation of Arylsulfoniums with CO₂ (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki

Monday, March 18, AM

Chair: HARAGUCHI, Ryosuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3H5-01, 3H5-02, 3H5-03, 3H5-04, 3H5-05, 3H5-06)
3H5-01 Synthesis of Ni(cod)₂ Exploiting Solar Light (Grad. Sch. Eng., Kyoto Univ.) ○KAMAE, Yoshiki; ISHIDA, Naoki; MURAKAMI, Masahiro
3H5-02 Development of Ni catalyzed allylation reaction of aldehyde (Gifu

Pharm. Univ.) OSUZUKI, Hiroyuki; YA <AGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

- 3H5-03** Ni-catalyzed ortho-C-H arylation of arylamines (ICR, Kyoto Univ.) OKAWASAKI, Hiroto; AOKI, Yuma; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 3H5-04** Nickel-Catalyzed Synthesis of Dithioacetals from Alkynes with thiols (Sch. of Med., Fukushima Med. Univ.) OTANIGUCHI, Nobukazu; KITAYAMA, Kenji
- 3H5-05** Nickel-catalyzed Coupling Reaction of Imines and Aryl Halides Using an Organosilicon Reductant (Grad. Sch. Eng. Sci., Osaka Univ.) OTSUJIMOTO, Nagataka; UEDA, Yohei; TSURUGI, Hayato; MASHIMA, Kazushi
- 3H5-06** Nickel-Copper-Catalyzed Hydroacylation of Vinylarenes with Acyl Fluorides and Hydrosilanes (Fac. Sci., Hokkaido Univ.) OUEDA, Yusuke; IWAI, Tomohiro; SAWAMURA, Masaya

Pt

Chair: ISHIDA, Naoki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3H5-08, 3H5-09, 3H5-10, 3H5-11, 3H5-12, 3H5-13)
- 3H5-08** Platinum-Catalyzed Cascade [4+2] Cyclization Reactions of Ynones (Sch. Mater. & Chem. Tech., Tokyo Tech.) OKOSHIKAWA, Takumi; SHIBATA, Yu; TANAKA, Ken

Cu

- 3H5-09** Asymmetric Cross-Coupling Using Aldehydes as Chiral α -Alkoxyalkyl Anions (Kanazawa Univ.) OYABUSHITA, Kenya; NAGAO, Kazunori; OHMIYA, Hirohisa
- 3H5-10** Reductive Coupling between Aldehydes and Ketones by Copper Catalysis (Kanazawa Univ.) OTAKEDA, Mitsutaka; NAGAO, Kazunori; OHMIYA, Hirohisa
- 3H5-11** Copper-Catalyzed Synthesis of β -Haloamines Using Diazoacetate Esters, Tertiary Aromatic Amines and Silyl Halides (Fac. Sci. Technol., TUS) OSASAKI, Kazuki; OGIWARA, Yohei; SAKAI, Norio
- 3H5-12** Synthesis of Oxaborole via Alkynylborates from Terminal Alkynes, Organoboranes and Aldehydes (Grad. Sch. Eng., Nagasaki Univ.) ONUNODA, Akira; FUJITA, Yuki; AKA, Yuki; FUKUDA, Tsutomu; ONODERA, Gen; KIMURA, Masanari
- 3H5-13** Copper-catalyzed [1,3]-alkoxy rearrangement on naphthalene ring (Sch. Sci., Tohoku Univ.) ONOZAWA, Satoru; NAKAMURA, Itaru; TERADA, Masahiro

Chair: NAKAMURA, Itaru (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(3H5-15, 3H5-16, 3H5-17, 3H5-18, 3H5-20, 3H5-21)
- 3H5-15** Copper catalyzed 1,3-dipolar cycloaddition of azomethine ylide with sultone (Fac. Sci. Eng., Chuo Univ.) OFURUYA, Shohei; HARAGUCHI, Ryosuke; FUKUZAWA, Shinichi
- 3H5-16** Copper(I)-Catalyzed Enantioconvergent Borylsubstitution of Racemic Benzyl Chlorides with Three Hindered-Quadrant Chiral Bisphosphine Ligand (Grad. Sch. Eng., Hokkaido Univ.) ONENDO, Kohei; IWAMOTO, Hiroaki; OZAWA, Yu; WATANABE, Yuta; KUBOTA, Koji; IMAMOTO, Tsuneo; ITO, Hajime
- 3H5-17** Development of High-Performance Chiral Bisphosphine Ligands for Copper(I)-Catalyzed Direct Enantioconvergent Borylation Reaction (Grad. Sch. Eng., Hokkaido Univ.) OOZAWA, Yu; IWAMOTO, Hiroaki; TAKENOUCI, Yuta; IMAMOTO, Tsuneo; ITO, Hajime
- 3H5-18**** Through-Space Interaction-Modified Robust Chiral Ligand Enabled Copper(I)-Catalyzed *cis*-Selective Asymmetric Borylative Cyclopropanation (Grad. Sch. Eng., Hokkaido Univ.) OIWAMOTO, Hiroaki; OZAWA, Yu; HAYASHI, Yuta; IMAMOTO, Tsuneo; ITO, Hajime
- 3H5-20** Copper-Catalyzed Three-Component Coupling of 1,3-Dienes, Silylborane and Nitriles (Grad. Sch. Eng., Kyoto Univ.) OFUJIHARA, Tetsuaki; MATSUDA, Yuki; TSUJI, Yasushi
- 3H5-21** Development of Chiral Triazolylidene Cu(I) Complex Catalysts with Ferrocene-based Planar Chirality (Grad. Sch. Sci. Eng., Chuo Univ.) OYAMAZAKI, Tatsuro; HARAGUCHI, Ryosuke; FUKUZAWA, Shinichi

Monday, March 18, PM

Chair: ONODERA, Gen (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3H5-29, 3H5-31, 3H5-32, 3H5-33)
- 3H5-29**** Copper-Catalyzed Regioselective Chloroamination of Alkenes (RIIS, Okayama Univ.; Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Grad. Sch. Human. Sci., Nara Women's Univ.) OIWASAKI, Masayuki; XU, Jie; TANI, Yukari; FU, Liyan; IKEMOTO, Yuichi; URA, Yasuyuki; NISHIHARA, Yasushi
- 3H5-31** Synthesis of Oxygen-Containing Heterocyclic Compounds by Iron-Catalyzed Alkylative Cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) OKAZAO, Yasuki; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 3H5-32** Copper-Catalyzed Arylstannylation of Alkynes in Sequence (Grad.

Sch. Eng., Hiroshima Univ.) OTANAKA, Hideya; OSAKA, Itaru; YOSHIDA, Hiroto

- 3H5-33**** Enantioselective Synthesis of *N*-Aryl Amines and Diamines through Copper-Catalyzed Hydroamination of Alkenes (MIT) OCHIKAWA, Saki; ZHU, Shaolin; BUCHWALD, Stephen

Tuesday, March 19, AM

Chair: SATO, Takaaki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4H5-01, 4H5-02, 4H5-03, 4H5-05)
- 4H5-01** Development of Copper-Catalyzed Suzuki-Miyaura-Type Cross-Coupling Reaction of Arylboronic Acids with Alkylsilyl Peroxides (Dep. Chem., Sch. Sci., Kyoto Univ.) OSAKURAI, Shunya; KATO, Terumasa; SAKAMOTO, Ryu; MARUOKA, Keiji
- 4H5-02** Synthesis of α -Aminoboronic Acid Derivatives by Copper-Catalyzed Electrophilic Amination of Diborylalkanes (Grad. Sch. Eng., Osaka Univ.) ONISHINO, Soshi; HIRANO, Koji; MIURA, Masahiro
- 4H5-03*** Copper-Catalyzed Regioselective C-H Amination of Phenol Derivatives with Diarylamines (Grad. Sch. Eng., Osaka Univ.) OTAKAMATSU, Kazutaka; HIRANO, Koji; MIURA, Masahiro
- 4H5-05**** C-N and C-C Bond Forming Reaction via Cu-Catalyzed Desulfonylative Coupling Reaction (WPI-ITbM, Nagoya Univ.) OYIM, Jacky C.-h.; TAHARA, Yasuyo; NAMBO, Masakazu; CRUDDEN, Cathleen M.

Chair: YOSHIDA, Hiroto (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4H5-08, 4H5-10, 4H5-11, 4H5-12, 4H5-13)
- 4H5-08**** The Synthesis of Enantioenriched Fluorine-containing Allylboron Compound via Copper(I)-Catalyzed Asymmetric Borylation Reaction (Grad. Sch. Eng., Hokkaido Univ.) OKIYAMA, Sota; KUBOTA, Koji; ITO, Hajime
- 4H5-10** Copper(I)-Catalyzed Borylation of CF₃-substituted Allenes (Grad. Sch. Eng., Hokkaido Univ.) ONOMURA, Syogo; AKIYAMA, Sota; KUBOTA, Koji; ITO, Hajime
- 4H5-11** Copper(I)-Catalyzed Borylative Cyclization of Ketones (Grad. Sch. Eng., Hokkaido Univ.) OUESUGI, Minami; OSAKI, Shun; KUBOTA, Koji; ITO, Hajime
- 4H5-12** Copper-catalyzed Electrophilic Etherification Using Isoxazolidines (Fac. Sci. Tech., Keio Univ.) OKATAHARA, Seiya; TAKAHASHI, Tenga; SATO, Takaaki; CHIDA, Noritaka
- 4H5-13** Addition of (alkoxysilyl)copper species to alkynes (Dep. Chem., Sch. Sci., Kyoto Univ.) OYAMAGISHI, Hiroki; SHIMOKAWA, Jun; YORIMITSU, Hideki

Chair: SHIMOKAWA, Jun (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(4H5-15, 4H5-16, 4H5-17, 4H5-18)
- 4H5-15** N-arylation reaction catalyzed by copper nanoparticles using DMF reduction method (Fac. Chem. Materials and Bioeng., Kansai Univ.) OKIMURA, Yuki; KITAI, Katsuya; OBORA, Yasushi
- 4H5-16** Copper-Catalyzed α -Selective Three-Component Borylation of Terminal Alkynes with an Unsymmetrical Diboron with Diminished Boron-Lewis Acidity (Grad. Sch. Eng., Hiroshima Univ.) OTSUSHIMA, Takumi; OSAKA, Itaru; YOSHIDA, Hiroto
- 4H5-17** Copper-catalyzed Borylation of Bromoaryl Triflates with Diborons: Replacement of an Ar-Br Bond (Grad. Sch. Eng., Hiroshima Univ.) OKAMIO, Shintaro; OSAKA, Itaru; YOSHIDA, Hiroto

Nb

- 4H5-18**** Niobium-catalyzed ether deoxyhalogenation with silicon halides (Grad. Sch. Eng. Sci., Osaka Univ.) OPARKER, Bernard; TSURUGI, Hayato; ARNOLD, John; MASHIMA, Kazushi

Room H6

Bldg. 8 824

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Sunday, March 17, AM

Sc

Chair: SUGA, Takuya (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2H6-01, 2H6-03, 2H6-05, 2H6-06)
- 2H6-01**** Scandium-Catalyzed C-H Addition of Pyridines to Heteroatom-Functionalized Internal Alkenes (RIKEN CSRS) OZHAN, Gu; HOU, Zhaomin

- 2H6-03[#]** Rare-Earth-Catalyzed Diastereodivergent [3+2] Annulation of Aldimines with Alkenes via C-H Activation (RIKEN CSRS) ○CONG, Xuefeng; HOU, Zhaomin
- 2H6-05** Sc(OTf)₃-Catalyzed Synthesis of 2-Substituted Benzimidazoles (Grad. Sch. Eng., Kyoto Univ.) ○MIYABE, Taishi; DI, Yuanjun; KIMURA, Yu; KONDO, Teruyuki

Y

- 2H6-06[#]** Yttrium-catalyzed C-H Silylation of Aromatic Heterocycles (RIKEN CSRS) ○XU, Wenxuan; HOU, Zhaomin

Chair: NISHII, Yuji (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H6-08, 2H6-10, 2H6-12)
- 2H6-08[#]** Synthesis of 1,2,3-Trisubstituted Pyrrolidines by Rare-earth-catalyzed Ring Opening Coupling of Cyclopropenes with Aminoalkenes (RIKEN CSRS) ○CAO, Tao; HOU, Zhaomin

Ti

- 2H6-10[#]** Low-Valent Titanium-Mediated Direct C-OH Bond Cleavage of Benzyl Alcohol Derivatives and Its Application to C-C Bond Formation (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SUGA, Takuya; SHIMAZU, Shoma; UKAJI, Yutaka
- 2H6-12[#]** Binuclear Titanium Complex-Catalyzed Enantioselective Epoxidation of Alkenes (Mol. Cat. Res. Center, Chubu Univ.) ○SAWANO, Takahiro; YAMAMOTO, Hisashi

Chair: KONDO, Teruyuki (11 : 20~11 : 50)

- * 11:10-11:20: interval for laptop PC connection.(2H6-15, 2H6-16)
- 2H6-15** Hydroaminoalkylation of Alkenes Catalyzed by Titanium Complexes bearing a Pyrrolylaluminum Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○INOUE, Mariko; TSURUGI, Hayato; MASHIMA, Kazushi

Ce

- 2H6-16[#]** Photo-induced decarboxylation of carboxylic acids catalyzed by cerium complexes (Sch. Eng. Sci., Osaka Univ.) ○SHIRASE, Satoru; SHINOHARA, Koichi; TSURUGI, Hayato; MASHIMA, Kazushi

Rh

Chair: KAMIKAWA, Ken (12 : 00~12 : 30)

- * 11:50-12:00: interval for laptop PC connection.(2H6-19)
- 2H6-19** Young Scholar Lectures of CSJ Divergent Synthesis of N-Heterocyclic Compounds by Transition Metal-Catalyzed Control of Active Intermediates (Grad. Sch. Eng., Kyoto Univ.) ○OKAMOTO, Kazuhiro

Sunday, March 17, PM

Chair: YASUI, Takeshi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(2H6-29, 2H6-30, 2H6-31, 2H6-32, 2H6-33, 2H6-34)
- 2H6-29[#]** Synthesis of Arene-Fused Thioxanthenes through Thioether Directed *peri*-Selective C-H Arylation under Rhodium Catalysis (Grad. Sch. Eng., Osaka Univ.) ○MOON, Sanghun; NISHII, Yuji; MIURA, Masahiro
- 2H6-30** Rhodium-Catalyzed Annulative Coupling of Isothiazole Derivatives through the N-S Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○MIHARA, Gen; NOGUCHI, Tepei; NISHII, Yuji; MIURA, Masahiro
- 2H6-31** Acid-catalyzed synthesis of dinaphthyl ethers using naphthols (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○TANII, Saori; ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2H6-32** Rhodium-catalyzed Synthesis of Unsymmetric Tris(heteroaryl) Compounds (Grad. Sch. Pharm. Sci., Tohoku Univ.) TANII, Saori; ○SATO, Kaede; ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2H6-33** Rhodium-Catalyzed Thiophosphorylation Reactions of Peptide Disulfides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○FUKUMOTO, Kohei; YAMAGUCHI, Masahiko
- 2H6-34** Catalytic Asymmetric Synthesis of Planar-Chiral Ferrocenyl Complexes via Rh-Catalyzed Asymmetric Ring-Opening Reaction (Grad. Sch. Sci., Osaka Pref. Univ.) ○ISODA, Takamu Isoda; OHYA, Naoki; TSURUSAKI, Akihiro; KAMIKAWA, Ken

Chair: KANYIVA, Stephen-kyalo (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(2H6-36, 2H6-37, 2H6-38, 2H6-39, 2H6-40, 2H6-41)
- 2H6-36** Rh(I)-Catalyzed [2+2+1] Cyclocarbonylation of Dienes under Visible-Light Irradiation (Grad. Sch. Mat. Sci., NAIST) MORIMOTO, Tsumori; ○YAMAGUCHI, Yoshiko; YAMADA, Hiroko; KAKIUCHI, Kiyomi
- 2H6-37** Rhodium-catalyzed Synthesis of Unsymmetric Bis(heteroaryl) Selenides (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; YAMAGUCHI, Masahiko; ○SUZUKI, Ren
- 2H6-38** Rhodium-catalyzed Synthesis of Unsymmetric Bis(heteroaryl)phosphines Using Diphosphines and Pentaphenylcyclopentaphosphine (Grad. Sch.

Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○SAWAHATA, Kyosuke; OHASHI, Keichirou; YAMAGUCHI, Masahiko

- 2H6-39** Synthesis of Unsymmetric Bis(heteroaryl) Ureas Using Rhodium-catalyzed Heteroaryl Exchange Reaction (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ○MIZUNO, Taro; KUMADA, Kanako; ITTO, Kaori; TANII, Saori
- 2H6-40** Enantioselective Synthesis of 5,6,5-Tricyclic Lactone Scaffold via Chiral Rhodium-Catalyzed [2+2+2] Cycloaddition of Eneidyne (Grad. Sch. Pharm. Sci., Nagoya Univ.) ○KURISAKI, Koutarou; YASUI, Takeshi; YAMAMOTO, Yoshihiko
- 2H6-41** Synthesis of a Helical Exocyclic Diene Scaffold via Rh-Catalyzed Cycloisomerization of 1,6-Diynes (Grad. Sch. Pharm. Sci., Nagoya Univ.) ○KIKUCHI, Tomohiro; YASUI, Takeshi; YAMAMOTO, Yoshihiko

Chair: ARISAWA, Mieko (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(2H6-43, 2H6-44, 2H6-45, 2H6-46, 2H6-47, 2H6-48)
- 2H6-43** Catalytic Enantioselective Synthesis of Heteroatom-Containing Medium-Ring Compounds via Intramolecular [2+2+2] Cycloaddition (Sch. Advanced Sci. Eng., Waseda Univ.) ○FUSAMAE, Toru; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 2H6-44** Catalytic and Enantioselective Synthesis of Axially Chiral Bis(dibenzothiophene) Derivatives by Consecutive Intramolecular Dehydro-Diels-Alder Reaction (Sch. Advanced Sci. Eng., Waseda Univ.) ○SEKINE, Ayato; MITAKE, Akihito; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 2H6-45[#]** Rhodium(I)-Catalyzed Alkylation of Aryl Sulfonamides with Alkenes through a Bidentate Chelating System and Related Mechanistic Studies (Grad. Sch. Eng., Osaka Univ.) ○REJ, Supriya; CHATANI, Naoto
- 2H6-46** Rhodium-Catalyzed Coupling Reaction of Arylboronic Acids with α , β -Unsaturated Carboxylic Acids (Grad. Sch. Sci., Osaka City Univ.) ○YOSHIMOTO, Risa; USUKI, Yoshinosuke; SATOH, Tetsuya
- 2H6-47** 8-Quinololato-Rhodium-Catalyzed anti-Markovnikov Hydroamination of Terminal Alkynes with Aromatic Primary Amines (Fac. Sci. Tech., Keio Univ.) ○MORIMOTO, Yoshihiko; HAMADA, Moe; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2H6-48** Novel Hydroaminative Cyclization of Enynes via (Amino)carbene Intermediates Catalyzed by a Rhodium Complex (Fac. Sci. Tech., Keio Univ.) ○TAKANO, Shotaro; SHIOMI, Ryosuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Monday, March 18, AM

Chair: NISHIMURA, Takahiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3H6-01, 3H6-02, 3H6-03, 3H6-04, 3H6-06)
- 3H6-01** Rhodium-Silylenoid Formation-Based Catalytic Cyclization: Construction of Seven-Membered Silacarboxycles (Grad. Sch. Eng., Kyoto Univ.) ○SASAKI, Ikuo; OHMURA, Toshimichi; SUGINOME, Michinori
- 3H6-02** Modified Cp-Rhodium(III)-Catalyzed Oxidative C-H Bond Olefination of Acrylamides (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YOSHIMURA, Ryo; SHIBATA, Yu; TANAKA, Ken
- 3H6-03** Electron-Deficient Cp-Rhodium(III)-Catalyzed Directing Group-Free C-H Functionalization (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKAHASHI, Hiroto; SHIBATA, Yu; HONJO, Yusaku; TANAKA, Ken
- 3H6-04[#]** Modified Cp-Rhodium(III)-Catalyzed Coupling Reactions of Heterole-Carboxamides with Alkynes via C-H Bond Cleavage (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMADA, Takayuki; SHIBATA, Yu; TANAKA, Ken
- 3H6-06** Modified Cp-Rhodium(III)-Catalyzed C-H Halogenation of O-Phenyl Carbamates (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Jin; SHIBATA, Yu; TERASAWA, Jyunichi; JOSEPH, Anton; TANAKA, Ken

Chair: SEMBA, Kazuhiko (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3H6-08, 3H6-09, 3H6-10, 3H6-11, 3H6-12, 3H6-13)
- 3H6-08** Enantioselective Synthesis of Unsymmetrical Helicene-Like Molecules by Rhodium-Catalyzed Cycloaddition Reactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KINOSHITA, Suzuka; SHIBATA, Yu; TANAKA, Ken
- 3H6-09** Enantioselective Synthesis of Aza[7]helicene-like Molecules by Rhodium-Catalyzed Cycloaddition Reactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HANADA, Kyoichi; HAYASE, Norihiko; SHIBATA, Yu; TANAKA, Ken
- 3H6-10** Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to 2H-Chromene (Grad. Sch. Sci., Osaka City Univ.) ○UMEDA, Moe; SAKAMOTO, Kana; NAGAI, Tomotaka; NAGAMOTO, Midori; EBE, Yusuke; NISHIMURA, Takahiro
- 3H6-11** Rhodium-Catalyzed Asymmetric [2+2+2] Cycloaddition of 1,6-Enynes with Secondary Allyl Alcohols (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Shunsuke; SHIBATA, Yu; TANAKA, Ken
- 3H6-12** Rhodium Complex-Catalyzed Decarbonylative Coupling of 1H-indan-1,2,3-triones with 2-Norbornene (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Daiki; KIMURA, Yu; KONDO, Teruyuki
- 3H6-13** Synthesis of Dibenzotetracenediones by Rhodium-Catalyzed [2+2+2] Cycloaddition/Aromatization Reaction (Sch. Mater. & Chem. Tech.,

Tokyo Tech.) ○AIDA, Yukimasa; SHIBATA, Yu; TANAKA, Ken

Chair: SHIBATA, Yu (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(3H6-15, 3H6-16, 3H6-17, 3H6-18, 3H6-19, 3H6-21)
- 3H6-15** Synthesis and Reactions of Cp-Rhodium and Iridium Complexes Having Group 13 Metalloids (Sch. Sci., Tokyo Tech.) ○YAMADA, Ryosuke; IWASAWA, Nobuharu; TAKAYA, Jun
- 3H6-16** Enantioselective Synthesis of Axially Chiral Benzofluoranthene Derivatives by Intramolecular Reaction via C-C bond Activation of Biphenylenes (Sch. Advanced Sci. Eng., Waseda Univ.) ○SHIOZAWA, Natsumi; TAKANO, Hideaki; ITO, Takeharu; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 3H6-17** Enantioselective intramolecular oxyamination reaction using Cp*Rh(III)/chiral anion hybrid catalyst (Fac. Pharm., Hokkaido Univ.) ○HIROSE, Jumpei; SATAKE, Shun; KOJIMA, Masahiro; HATANNO, Manabu; ISHIHARA, Kazuaki; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeki
- 3H6-18** Synthesis of Fluorenes by Rhodium-Catalyzed Stitching Reaction (Grad. Sch. Eng. Sci., Osaka Univ.) ○NISHIDA, Masaki; SHINTANI, Ryo
- 3H6-19***# C2-Selective Alkylation and Silylation of Pyridines by a Rhodium Complex Bearing an X-Type Aluminylligand (Grad. Sch. Eng., Kyoto Univ.) ○HARA, Naofumi; UEMURA, Nao; ASO, Koki; NAKAO, Yoshiaki
- 3H6-21** Magnesianation of Aryl Fluorides Catalyzed by Rhodium-Aluminum Bimetallic Complexes (Grad. Sch. Eng., Kyoto Univ.) ○FUJII, Ikuya; SEMBA, Kazuhiko; NAKAO, Yoshiaki

Room 11
Bldg. 10 1011

Colloid and Interface Chemistry

Saturday, March 16, AM

Molecular Assemblies

Chair: YAMAUCHI, Mitsuaki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(111-01, 111-02, 111-03, 111-04, 111-05, 111-06)
- 111-01** Encapsulation of I³⁻ anion by per-ethylated α -cyclodextrin and improved thermocell performance based on LCST transition (Fac. Eng., Kyushu Univ.) ○INOUE, Hirotsuka; LIANG, Yimin; YAMADA, Tepei; KIMIZUKA, Nobuo
- 111-02** Construction of thermocell based on the use of surfactants (Grad. Sch. Eng., Kyushu Univ.) ○IWAMI, Risa; YAMADA, Tepei; KIMIZUKA, Nobuo
- 111-03** Effect of thermo-responsive polymers on the performance of thermocells (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.) ○HAYASHI, Keisuke; YAMADA, Tepei; KIMIZUKA, Nobuo
- 111-04** Enzymatic Synthesis and Characterization of Cellulose Oligomers with a Terminal Carboxyl Group (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAITO, Masashi; SAWADA, Toshiki; TANAKA, Hiroshi; SERIZAWA, Takeshi
- 111-05** Controlled Self-assembly of Cellulose Oligomers with a Terminal Alkyl Group (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Shoki; SAWADA, Toshiki; SERIZAWA, Takeshi
- 111-06** Preparation of Functional Paper through Self-Assembly of Cellulose Oligomers with Functional Groups (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HANAMURA, Misaki; ICHIKAWA, Mayuko; SAWADA, Toshiki; SERIZAWA, Takeshi

Chair: SAWADA, Toshiki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(111-08, 111-10, 111-12)
- 111-08*** Dynamic control of intramolecular rotation in 2D lipid matrix (Grad. Sch. Frontier Sci., The Univ. of Tokyo; MANA, NIMS) ○MORI, Taizo; NAKANISHI, Waka; HILL, Jonathan; ARIGA, Katsuhiko
- 111-10***# Control over Supramolecular Arrangement of Semiconductor Nanocrystals by Self-Assembly of Organic Dye (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 111-12***# Construction of new multi-component supramolecular nanomaterials based on nucleic acids and peptide derivatives (UGS Drug Discovery and Med. Info. Sci., Gifu Univ.; G-CHAIN) ○HIGASHI, Sayuri; SHIBATA, Aya; HIROSAWA, Koichiro; SUZUKI, Kenichi; IKEDA, Masato

Chair: MASUO, Sadahiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(111-15, 111-16, 111-17, 111-18, 111-20)
- 111-15** Chirality control of binaphthyl nanocar at dynamic interfaces (MANA, NIMS) ○ISHII, Masaki; MORI, Taizo; NAKANISHI, Waka;

ARIGA, Katsuhiko; SAKAI, Hideki

- 111-16** Self-assembly of lipophilic dirhodium(II) complexes with bidentate azobenzene-containing ligands and photo-switching of their macrocyclic structures (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.) ○KOBAYASHI, Tetsuro; UCHINO, Shinya; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 111-17** Photo- and thermo-responsive self-assembly of water-soluble dirhodium(II) complexes (Fac. Eng., Kyushu Univ.; CMS, Kyushu Univ.) ○SAKATA, Mone; KOBAYASHI, Tetsuro; MORIKAWA, Masa-aki; KIMIZUKA, Nobuo
- 111-18*** Shape changes of lipid vesicles using supramolecular assemblies (1) (Grad. Sch. Eng., Hiroshima Univ.) ○SUGIKAWA, Kouta; ONO, Masaki; IKEDA, Atsushi
- 111-20** Shape changes of lipid vesicles using supramolecular assemblies (2) (Grad. Sch. Eng., Hiroshima Univ.) ○KONDOU, Ryuji; SUGIKAWA, Kouta; IKEDA, Atsushi

Saturday, March 16, PM

Chair: SERIZAWA, Takeshi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(111-28, 111-31, 111-32, 111-33)
- 111-28***# CSJ Award for Young Chemists Design and Application of Molecular Glues Based on Multivalent Interactions (Grad. Sch. Eng., The Univ. of Tokyo) ○OKURO, Kou
- 111-31** Control of the incorporation and release of model drug by photoreaction in liposomes (Grad. Sch. Eng., Hiroshima Univ.) ○SHIMOKAWA, Ryo; UEDA, Masahumi; SUGIKAWA, Kouta; IKEDA, Atsushi
- 111-32** Release of hydrophilic drug from liposome by phototrigger (Grad. Sch. Eng., Hiroshima Univ.) ○YUYA, Goto; KOUTA, Sugikawa; KAZUMA, Yasuhara; ATSUSHI, Ikeda
- 111-33** Synthesis of Hemoglobin Polymer using Bismaleimide Crosslinker (Fac. Sci. Eng., Chuo Univ.) ○TAKAHASHI, Daiki; MORITA, Yoshitsugu; KOMATSU, Teruyuki

Chair: YAMANAKA, Masamichi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(111-35, 111-38, 111-39, 111-40)
- 111-35***# Young Scholar Lectures of CSJ Modular Design of Soft Porous Materials by Self-Organization of Metal-Organic Nanocages (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○HOSONO, Nobuhiko
- 111-38** Development of light-harvesting supramolecular assemblies exploiting cyclodextrins to suppress intermolecular collision of dyes (Sch. Eng., Osaka Univ.) ○TANI, Youhei; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 111-39** Preparation of Novel Supramolecular Structures through Self-assembly of Methylated α -Cyclodextrins (Grad. Sch. Eng., Osaka Univ.) ○KITAGAWA, Mizuki; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 111-40** Synthesis and Functions of Protein Microtube Motor with an Avidin-Decorated Outer Surface (Fac. Sci. Eng., Chuo Univ.) ○SUGAI, Natsuhiko; NAKAI, Yoko; MORITA, Yoshitsugu; KOMATSU, Teruyuki

Chair: SUGIKAWA, Kouta (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(111-42, 111-43, 111-44, 111-45)
- 111-42** development of β -Galactosidase-responsive supramolecular hydrogel (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MAKI, Takumi; YAMANAKA, Masamichi
- 111-43** gelation ability of urea derivative (Fac. Sci., Shizuoka Univ.) ○KOMIYAMA, Tomoki; HARADA, Yoko; MASUDA, Junya; TAKAYA, Hikaru; YAMANAKA, Masamichi
- 111-44** Synthesis and self-assembly property of bolaamphiphiles having carbohydrates (Fac. Sci., Kochi Univ.; Fac. Sci. Tech., Kochi Univ.; RIES, Hokkaido Univ.; Grad. Sch. Env. Sci., Hokkaido Univ.) ○ISHIGAMORI, Azumi; IZUMI, Masayuki; TAKAHASHI, Kiyonori; NORO, Shin-ichiro; NAKAMURA, Takayoshi; OCHI, Rika
- 111-45*** Conformation-Adjustable π -Systems Providing Electric-Field-Responses (Coll. Life Sci., Ritsumeikan Univ.) ○NAKAMURA, Kazuto; MAEDA, Hiromitsu

Chair: MORITA, Yoshitsugu (16 : 50~17 : 30)

- * 16:40-16:50: interval for laptop PC connection.(111-48, 111-49, 111-50, 111-51)
- 111-48** Construction of Electric Field-Responsive Thin Films by the Self-Assembly of Dipolar Hexaarylbenzene Derivatives (Lab. Chem. Life Sci., Tokyo Tech.) ○MIYAZAKI, Takuya; SHOJI, Yoshiaki; ISHIWARI, Fumitaka; KAJITANI, Takashi; FUJI, Shintaro; KIGUCHI, Manabu; FUKUSHIMA, Takanori
- 111-49** Synthesis of fullerene nanoparticles including porphyrins by guest exchange reaction (Grad. Sch. Eng., Hiroshima Univ.) ○MASUDA, Kosuke; SUGIKAWA, Kota; IKEDA, Atsushi
- 111-50** Design of Polyamine Nano-objects by Self-assembly and Chemical Modification of Comb-like Block Copolymers (Grad. Sch. Eng., Kanagawa Univ.) ○WANG, Wen-li; JIN, Ren-hua
- 111-51** Chiral Aggregation of Co(III)Cl(TPPS) with Chiral Small Molecules (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○OHTA, Naoki;

AIZAWA, Senichi

Sunday, March 17, PM

Chair: HARADA, Masafumi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(211-25, 211-27, 211-29)
211-25* Orientation and migration of a rigid rod polyelectrolyte in an electric field: Consideration of hydrodynamic interaction (Fac. Integrated Arts Sci., Tokushima Univ.) ○MATSUMOTO, Mitsuhiro
211-27** Formation Mechanism of Fibers Composed of Porphyrin Derivatives Fabricated by Surfactant-Assisted Method (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TASHIRO, Keigo; YAMAZAKI, Suzuko
211-29** Dynamic Photonic Crystals Mainly Composed of Water: Sensitive Changes of Structural Colors Exhibited by Thermoresponsive Phospholipid Bilayers (RIKEN CEMS) ○UCHIDA, Noriyuki; KENNY LOW, Zhi Wei; ISHIDA, Yasuhiro

Chair: SAKAI, Toshio (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(211-32, 211-33, 211-34, 211-35, 211-36, 211-37)
211-32 Foam Stability of Amino Acid-Sugar Hybrid Surfactant (Grad. Sch. Human. Sci., Nara Women's Univ.; Technoble Co., Ltd.) ○SAIKAWA, Kana; YADA, Shiho; YOSHIMURA, Tomokazu; HADA, Yohsuke; SAWAKI, Shigetoyo
211-33 Solution Properties of Quaternary Ammonium Salt-Type Multi-Chained Surfactants with Multi-Branched Alkyl Chains (Grad. Sch. Human. Sci., Nara Women's Univ.; Nissan Chemical Corp.) ○MATSUMOTO, Yuri; YADA, Shiho; YOSHIMURA, Tomokazu; KODA, Toshinari
211-34 Design and Properties of Thermo-responsive nanocapsules consisted of cross-linked PEI shell and PNIPAM core (Grad. Sch. Eng., Kanagawa Univ.) ○TAKEBUCHI, Haruka; KAIKAKE, Katsuya; JIN, Ren-hua
211-35 Synthesis of photo-responsive cationic fluorocarbon-hydrocarbon hybrid surfactants and their micellar solution properties (Fac. Eng., TUS) ○ITOYAMA, Sekito; SAITO, Norio
211-36 Synthesis and Properties of Novel Chemo-Cleavable Surfactants Bearing Amide Groups Derived from Tartaric Acid (Fac. Eng., OIT) ○MORIMOTO, Yuki; DAISUKE, Ono; KOBAYASHI, Shoji; MASUYANA, Araki
211-37 Solution Properties of Polyoxyethylene Type Double Chained Non-ionic Surfactants (Grad. Sch. Human. Sci., Nara Women's Univ.; Nippon Shokubai Co., Ltd.) ○KAWAI, Risa; YADA, Shiho; YOSHIMURA, Tomokazu; OKADA, Atsushi; INAOKA, Toru

Chair: YOSHIMURA, Tomokazu (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(211-39, 211-40, 211-41, 211-42, 211-43, 211-44)
211-39 Observation of magnetic Sagnac effect in w/o microemulsion (Osaka Univ.INS) ○WATARAI, Hitoshi; XING, Zilu
211-40 Structure analysis of AOT / water / organic solvent mixed emulsion systems containing silver nanoparticles by SAXS / SANS (Grad. Sch. Human. Sci., Nara Women's Univ.; Fac. Human Life Env., Nara Women's Univ.) ○YAMAMOTO, Miho; HARADA, Masafumi
211-41 Lubrication behavior of O/W emulsion under non-linear motion (Fac. Eng., Yamagata Univ.) ○KIKUCHI, Kei; NONOMURA, Yoshimune
211-42 Development of Washing Method for Triglyceride Attached in/on Textile (Fac. Eng., Shinshu Univ.; Kao Corp.) ○TAKEDA, Keisuke; KOTERA, Takanori; SAKAI, Toshio
211-43 Colloidal Stabilization Mechanism of Emulsifier-free Oil-in-Water Emulsions: Effect of Temperature (Fac. Eng., Shinshu Univ.) ○TAKAHASHI, Nozomi; SAKAI, Toshio
211-44 Development of Quantification Method for Emulsifying Process (Fac. Eng., Shinshu Univ.) ○SAKAI, Toshio; TSUTSUI, Mai

Chair: NONOMURA, Yoshimune (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(211-46, 211-47, 211-48, 211-49, 211-50)
211-46 Colloidal Stabilization of Emulsifier-free Oil-in-Water Emulsions by Oils Mixing: Effect of Branched Hydrocarbon (Fac. Eng., Shinshu Univ.) ○KOIKE, Natsumi; SAKAI, Toshio
211-47 Effect of Water-soluble Polymer on Colloidal Stability and Spray Characteristics of Oil-in-Water Emulsions (Fac. Eng., Shinshu Univ.; Toyo Aerosol Industry Co., Ltd.) ○KURASAWA, Tomomi; YAMAMOTO, Naoki; ITO, Anzu; SAKAI, Toshio
211-48* Control of photo-induced motion for photo-responsive liquid crystalline droplet (Fac. Sci. Eng., Chuo Univ.) ○SAKAI, Yota; DOGISHI, Yoshiharu; SHON, Woon Yong; KATAYAMA, Kenji
211-49 Formation of vesicles from azobenzene phospholipids having piperazine group and their response properties to external stimuli (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○HASEGAWA, Naoki; KURIHARA, Seiji; HUKAMINATO, Tsuyoshi; KIM, Sunnam; MURAMATU, Atsushi; KANIE, Kiyoshi
211-50 Sol-gel transition and external stimulus responsiveness between azobenzene phospholipids vesicle and polymer having hydrophobic group (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○SATO, Daisuke; KIM,

Sunnam; FUKAMINATO, Tsuyoshi; KANIE, Kiyoshi; MURAMATSU, Atsushi; AKIYAMA, Haruhisa; TAMAOKI, Nobuyuki; KURIHARA, Seiji

Monday, March 18, AM

Chair: ICHIKAWA, Takahiro (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(311-01, 311-02, 311-03, 311-04, 311-05, 311-06)
311-01 Gelation of halogenated organic solvents using sugar based gelators bearing long alkyl chains (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SASAOKA, Yuuki; ITO, Kazuaki
311-02 The correlation between structure of sugar derivatives as low-molecular-weight gelator and their physical gelation property (GIC, Kyushu Univ.; Nissan Chemical Corp.) ○ONO, Fumiyasu; FUKUDA, Mayu; WATANABE, Hisayuki
311-03 Synthesis of glycolipid-type supramolecular hydrogels showing color change (Fac. Sci., Kochi Univ.; Fac. Sci. Tech., Kochi Univ.) ○OOSUMI, Ryoya; IZUMI, Masayuki; OCHI, Rika
311-04* Rapid Self-healing materials consisting of polyrotaxane cross-linked by host-guest interactions (Grad. Sch. Sci., Osaka Univ.) ○KOBAYASHI, Yuichiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
311-05 Photoinduced Adhesion Behavior of Composites of Azobenzene-doped Liquid Crystals and Polymers and Their Evaluation as Pressure-sensitive Adhesives (IIR, Tokyo Tech.) ○KOIKE, Mioka; YAMAMOTO, Takahiro; AOYAGI, Takao; AKAMATSU, Norihisa; SHISHIDO, Atsushi
311-06 Covalent dynamic molecular sponges: Switching of structural order in cross-linked polymers prepared by the template polymerization of columnar liquid crystals (RIKEN CEMS) ○YAMADA, Kuniyo; AMMATHNADU, Achalkumar; ISHIDA, Yasuhiro

Chair: OCHI, Rika (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(311-08, 311-10, 311-12)
311-08** Modular Approach to Optoelectrically Responsive Columnar Coassembly (Grad. Sch. Eng., The Univ. of Tokyo) ○YANO, Keiichi; ITOH, Yoshimitsu; ARAOKA, Fumito; AIDA, Takuzo
311-10* Single-crystal-like chiral molecular droplets that exhibit unidirectional rotating flow (Lab. Chem. Life Sci., Tokyo Tech.; ISSP, The Univ. of Tokyo) ○KAJITANI, Takashi; MOTOKAWA, Kyuri; MORISHIMA, Ken; SHIBAYAMA, Mitsuhiro; FUKUSHIMA, Takanori
311-12* Magneto-induced phase-change in a liquid crystal (Lab. Chem. Life Sci., Tokyo Tech.; Grad. Sch. Eng., The Univ. of Tokyo; RIKEN CEMS) ○KAJITANI, Takashi; HAJJAJ, Fatim; AIDA, Takuzo; FUKUSHIMA, Takanori

Chair: TAKASHIMA, Yoshinori (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(311-15, 311-17, 311-19, 311-20)
311-15** Alignment Control and Functionalization of Semiconductive Self-assembled Fibers in Aligned Liquid-Crystalline Fields (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGUCHI, Daisuke; KATO, Takashi
311-17** Creation of 3D continuous water nanosheets using liquid-crystalline gyroid structures as a template (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KOBAYASHI, Tsubasa; ZENG, Xiang-bing; ICHIKAWA, Takahiro

New Fields and Others

- 311-19** The antibacterial activity of 1,2-alkanediol against *Staphylococcus aureus* and *Staphylococcus epidermidis* (Fac. Eng., Yamagata Univ.) ○OKUKAWA, Minako; MIURA, Maki; WATANABE, Takamasa; YANO, Shigekazu; KONNO, Hiroyuki; NONOMURA, Yoshimune
311-20 Formation of Highly-Oriented Molecular Self-Assembly using an Acoustic Levitation Method (Lab. Chem. Life Sci., Tokyo Tech.; RIKEN Spring-8 Center; JASRI; IMRAM, Tohoku Univ.) ○TANAKA, Hiroki; KAJITANI, Takashi; OHARA, Koji; OHSUMI, Hiroyuki; TAKATA, Masaki; FUKUSHIMA, Takanori

Monday, March 18, PM

Organized Membranes

Chair: OKAMOTO, Yukihiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(311-28, 311-30, 311-31, 311-32, 311-33)
311-28** Interface imaging of cobalt stearate LB films (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ZHAO, Wenyang; SAKURAI, Kenji
311-30 Application of Simple and Highly Efficient Nanoparticle Surface-Modification Method to Single Wall Carbon Nanotube and Formation of Its Interfacial Organized Film (Fac. Eng., Saitama Univ.) ○ABIKO, Yoshinori; FUJIMORI, Atsuhiko
311-31 Formation and Structure of Organized Films of Organo-Modified Sepiolite (Grad. Sch. Sci., Eng., Saitama Univ.) ○HIRAYAMA, Shuhei; GUO, Yifei; OKANO, Rei; SATOU, Eiichi; FUJIMORI, Atsuhiko
311-32 Surface property and structures of mixed monolayers including

polydimethylsiloxane as one component (Grad. Sch. Eng., Utsunomiya Univ.) ○KOBAYASHI, Masashi; IIMURA, Ken-ichi; INOUE, Masami; MIYAMAE, Takayuki

311-33 Nanodispersion of Fluorocarbon-Modified Nanodiamond in Solvent and Formation of Their Interfacial Particle Films (Grad. Sch. Sci., Eng., Saitama Univ.) ○MACHIDA, Hiroki; FUJIMORI, Atsuhiko

Chair: IIMURA, Ken-ichi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(311-35, 311-36, 311-37, 311-39)

311-35 Formation of Supramolecular Assembly of Polyguanamine Derivative Having Cyclic Parts and Its Metal Scavenging Ability (Fac. Eng., Saitama Univ.) ○FUKUSHI, Keito; SHIBASAKI, Yuji; FUJIMORI, Atsuhiko

311-36 Chirality-controlled helical Au nanowires covered with self-assembled monolayer and their optical properties. (Fac. Eng., TUS) ○KANDA, Tatsuhiko; KAWAI, Takeshi

311-37** Redox-Dependent Electric Double Layer Structures in Electroactive Self-Assembled Monolayers Probed with Photoelectron Spectroscopy (RIKEN SISL) ○WONG, Raymond; YOKOTA, Yasuyuki; WAKISAKA, Mitsuru; INUKAI, Junji; KIM, Yousoo

311-39* Development of electrophoresis in supported lipid nano bilayer (Grad. Sch. Eng. Sci., Osaka Univ.) ○OKAMOTO, Yukihiko; NISHINO, Ryo; NIIOKA, Hirohiko; SUGA, Keishi; UMAKOSHI, Hiroshi

Chair: KAWAI, Takeshi (15 : 50~17 : 00)

* 15:40-15:50: interval for laptop PC connection.(311-42, 311-43, 311-44, 311-46, 311-47, 311-48)

311-42 Division of Roles of Modified Chains in Organo-Magnetic Nanoparticles Using Organo-Modified Agents Having Hydrophilic Reactive Polar Groups at Both Ends (Fac. Eng., Saitama Univ.) ○KIMURA, Yusuke; FUJIMORI, Atsuhiko

311-43 Systematic Assessment of Benzenethiol Self-Assembled Monolayers on Au(111) Using Electrochemical Tip-Enhanced Raman Spectroscopy (RIKEN SISL) ○YOKOTA, Yasuyuki; HAYAZAWA, Norihiko; YANG, Bo; KAZUMA, Emiko; CATALAN, Francesca C. I.; KIM, Yousoo

311-44** Control of Liposome Membrane Properties and Functions by GHz-Frequency Electric Field (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAUCHI, Atsushi; SUGA, Keishi; OKAMOTO, Yukihiko; UMAKOSHI, Hiroshi

311-46 Lipid nanodisc formation from cyclic peptide surfactant "surfactin" (RCPT, AIST) ○MORIYAMA, Ryodai; IMURA, Tomohiro

311-47 Effect of Carbon Chain Length on Air-water Interfacial Viscoelastic Behavior in Mixed Aqueous Solution of Sodium Bis(2-ethylhexyl)sulfosuccinate and Sodium Alkyl Sulfate (Fac. Sys. Eng., Wakayama Univ.) ○AONO, Keita; SUZUKI, Fumitsu; YOMOGIDA, Yoshihiro; OKANO, Tetsuya; KADO, Shinpei; NAKAHARA, Yoshio; YAJIMA, Setsuko

311-48 Construction of hydrophilic surface by block copolymer having OEG and pyridine units: Drastic change of hydration state induced by standing up of polymer segment on the substrate (Grad. Sch. Sci., TUS) ○KASHIWAKURA, Masato; MORISAKU, Toshinori; SATO, Ryutaro; OSAWA, Shigehito; OTSUKA, Hidenori; YUI, Hiroharu

Room I2

Bldg. 10 1012

Colloid and Interface Chemistry

Saturday, March 16, AM

Fine Particles and Colloidal Dispersions

Chair: ISHIDA, Yohei (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(112-01, 112-03, 112-04, 112-06)

112-01** Observation of rectangular hysteresis loop in metal-substituted epsilon iron oxide nanomagnets (Grad. Sch. Sci., The Univ. of Tokyo) ○YOSHIKIYO, Marie; NAMAI, Asuka; IMOTO, Kenta; TOKORO, Hiroko; OHKOSHI, Shin-ichi

112-03* Particle size control synthesis and magnetic properties of multiple metal substituted epsilon iron oxides (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUKAMOTO, Seiya; YOSHIKIYO, Marie; NAMAI, Asuka; OHKOSHI, Shin-ichi

112-04** Synthesis of gold nanoparticles by laser induced plasma on microdroplets (Grad. Sch. Sci., Osaka City Univ.) ○OKAMOTO, Takuya; NAKAMURA, Takahiro; SAKOTA, Kenji; YATSUHASHI, Tomoyuki

112-06 Particle transport induced by optical heating of a single gold nanoparticle (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) CHIKAZAWA, Jun-ichi; ○HASHIMOTO, Shuichi

Chair: SARUYAMA, Masaki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(112-08, 112-10, 112-12, 112-13)

112-08** Synthesis of Pyridineethanethiol-Protected Au₂₅ Nanoclusters (Grad. Sch. Eng., Hokkaido Univ.) ○HUANG, Zhong; ISHIDA, Yohei; YONEZAWA, Tetsu; NGUYEN, Thanh Mai

112-10** Kinetics of Cationic-Ligand-Exchange Reactions in Au₂₅ Nanoclusters (Grad. Sch. Eng., Hokkaido Univ.) ○ISHIDA, Yohei; HUANG, Zhong; NARITA, Kunihiko; YONEZAWA, Tetsu

112-12 Ultrarapid Cationization of Gold Nanoparticles via a Single-Step Ligand Exchange Reaction (Grad. Sch. Eng., Hokkaido Univ.) ○SUZUKI, Jun; ISHIDA, Yohei; YONEZAWA, Tetsu

112-13 Self-Organization of Binary Core/shell Microgels Mixture. (Fac. Textile Sci. Technol., Shinshu Univ.; IFES, Shinshu Univ.) ○HONDA, Kenshiro; TAKIZAWA, Masaya; WATANABE, Takumi; SUZUKI, Daisuke

Chair: MAENOSONO, Shinya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(112-15, 112-17, 112-19, 112-20)

112-15** Synthesis and oxygen evolution reaction catalytic activity of Cu-Ni selenide nanocrystals through the cation exchange reaction (ICR, Kyoto Univ.) ○SARUYAMA, Masaki; KIM, Sunwon; SAKAMOTO, Masanori; TERANISHI, Toshiharu

112-17** Formation of Novel Ordered Fe-Pd Alloy Nanoparticles caused by the Elemental Miscibility of Third Elements (ICR, Kyoto Univ.; Univ. Ctr. for Liberal Arts Educ., Meio Univ.) ○MATSUMOTO, Kenshi; SATO, Ryota; TATETSU, Yasutomi; TERANISHI, Toshiharu

112-19* Synthesis and Functionalization of Kompeito-shaped Gold Nanoparticles Deposited on Porous Crystals of Trinuclear Pd(II) Complexes (Grad. Sch. Sci., The Univ. of Tokyo; Coll. Sci., Rikkyo Univ.) ○YAMASHITA, Yutaro; TASHIRO, Shohei; MATSUSHITA, Nobuyuki; SHIONOYA, Mitsuhiko

112-20 Intracellular Behavior of Mesoporous Silica Nanoparticles as Drug Carriers (RIES, Hokkaido Univ.; KU Leuven) ○KOTANI, Ibuki; INOSE, Tomoko; BEATRICE, Fortun; HIRAI, Kenji; UJI-I, Hiroshi

Saturday, March 16, PM

Chair: NISHI, Hiroyasu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(112-28, 112-30, 112-32, 112-33)

112-28* Magnetic Properties of Ultrafine Oblate Iron Oxide Nanoparticles Prepared by Arc Plasma Deposition (JST-ERATO; IIR, Tokyo Tech.) ○IDA, Yumi; TANABE, Makoto; YAMAMOTO, Kimihisa

112-30** Dendrimer Encapsulated Subnano Copper Oxide Particles for Toluene Oxidation Reactions (Lab. Chem. Life Sci., Tokyo Tech.) ○SONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa

112-32 Fine controlled synthesis of non-noble metal clusters by using a dendrimer (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○MORIAL, Tatsuya; TSUKAMOTO, Takamasa; KANBE, Tetsuya; YAMAMOTO, Kimihisa

112-33 Visible-light-emitting Si quantum dots synthesized from rice husks: surface passivation and solvent dispersion (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○TERADA, Shihou; SAITOW, Ken-ichi

Chair: TASHIRO, Shohei (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(112-35, 112-37, 112-39, 112-40)

112-35* Analysis of Plasmon-Induced Charge Separation Mechanism by the Use of Metal Nanocubes (IIS, The Univ. of Tokyo) ○NISHI, Hiroyasu; TATSUMA, Tetsu

112-37* Morphology Control of Cellulose Particles Using Ionic Liquid (Grad. Sch. Eng., Kobe Univ.) ○OMURA, Taro; IMAGAWA, Kaori; SUZUKI, Toyoko; MINAMI, Hideto

112-39 Fluorescence of nanoparticles of di(1-pyrenyl)benzenes and their derivatives (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KASATANI, Kazuo; YOSHIMURA, Noriyuki; MORITA, Yuki; OKAMOTO, Hiroaki

112-40 Antibacterial Resin Coating Using a Conjugate between Silver Nanoclusters and Alkyl Quaternary Ammonium (Fac. Chem. Materials and Bioeng., Kansai Univ.; Hokkaido Univ.) ○KAWASAKI, Hideya; TOMINAGA, Chiaki; SHITOMI, Kanako; MIYAJI, Hirofumi

Chair: YAMAUCHI, Miho (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(112-42, 112-43, 112-44, 112-45, 112-46, 112-47)

112-42 Patterning of Polystyrene Thin Films by Colloidal Lithography: Influences of Quantity of UV Light and Solvent (Fac. Eng., TUS) ○KANEKO, Rino; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi

112-43 Improvement of catalytic activity of supported Au nanoflowers by UV-ozone treatment (TUS) ○SAITO, Haruna; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi

112-44 Patterning of Ag nanoparticles on polystyrene thin films by colloidal lithography (Fac. Eng., TUS) ○SONE, Yoshihiro; KAWAI, Takeshi

112-45* Room-Temperature Sintering of Tri-n-octylphosphine-oxide-capped Silver Nanoparticles Using Chloride Salt as Sintering Agent (Fac. Sys. Eng., Wakayama Univ.) ○OKADA, Soichiro; NAKAHARA, Yoshio; WATANABE, Mitsuru; TAMAI, Toshiyuki; KOBAYASHI, Yasuyuki; YAJIMA, Setsuko

- 112-46** Synthesis of Dendrite-like Silver Nanoparticle Based on Reduction of Silver Thiocyanate Using Sodium Ascorbate (Fac. Sys. Eng., Wakayama Univ.) ○NAKANO, Yuko; KADO, Shinpei; YAJIMA, Setsuko
112-47 Controlling Factors in Kinetics of Hollow Silver Nanoshell Transformation (Fac. Sys. Eng., Wakayama Univ.) ○NISHIURA, Masashi; KADO, Shinpei; YAJIMA, Setsuko

Chair: KAMEYAMA, Tatsuya (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(112-49, 112-51, 112-52)
112-49[#] Photocatalytic activity of Cu nanoparticles directly synthesized on nanosheets and effect of hierarchical structure of nanocomposite (Fac. Sci. Eng., Chuo Univ.) ○MIYAGAWA, Masaya; SHIBUSAWA, Akane; NISHIO, Kengo; TANAKA, Hideki
112-51 Photoluminescence of copper nanoparticle by constructing energy transfer system on nanosheet and effect of surface plasmon resonance (Grad. Sch. Sci. Eng., Chuo Univ.) ○NISHIO, Kengo; MIYAGAWA, Masaya; TANAKA, Hideki
112-52 Application of oxidation-resistive Cu nanoparticles for epoxidation (Grad. Sch. Sci. Eng., Chuo Univ.) ○YONEYAMA, Kota; MIYAGAWA, Masaya; TANAKA, Hideki

Sunday, March 17, PM

Chair: KOBAYASHI, Hirokazu (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(212-25, 212-26, 212-27, 212-28, 212-29, 212-30)
212-25 Size and Matrix Effect on Pd-doped Au Nanoclusters Catalyst Protected by Poly-(N-vinylpyrrolidone) (Sch. Eng., Osaka Univ.) ○SASAI, Kenji; MASUDA, Takuya; SAKURAI, Hidehiro
212-26 Size control and catalytic performance of Au nanoflowers supported on alumina (Fac. Eng., TUS) ○MANIWA, Motoki; IMURA, Yoshiro; WANG, Ke-shuan; KAWAI, Takeshi
212-27 Colloidal Dispersibility and Thermal Stability of Silica-coated Gold Nanorods (Grad. Sch. Med., Eng., Univ. of Yamanashi) ○SHINMORI, Hideyuki; TOKUMARU, Kana; MOCHIZUKI, Chihiro
212-28 Syntheses of Pd Nanoparticles and Organic Polymers inside MOF (FIRST, Konan Univ.) ○TETSUSASHI, Seiko; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke
212-29 Synthesis a Co-Sb-S thermoelectric material by chemical method and structural analyses (Sch. Mat. Sci., JAIST) ○FEI, Shujie; NAKADA, Takeshi; ZHOU, Wei; DWIVEDI, Prathibha; OHTA, Michihiro; AKATSUKA, Masanobu; MAENOSONO, Shinya
212-30[#] Size-selective preparation of Au:Chitosan (Grad. Sch. Eng., Osaka Univ.) ○SABIRGALIEVA, Nazgul; SAKURAI, Hidehiro

Chair: TSURUOKA, Takaaki (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(212-32, 212-33, 212-34, 212-35, 212-36, 212-37)
212-32[#] Preparation of fullerene-stabilized metal nanoclusters for catalytic hydrogenation (Grad. Sch. Eng., Osaka Univ.) ○CABELLO, Mark Kristan; SATO, Nozomi; UETAKE, Yuta; KOKUBO, Ken; SAKURAI, Hidehiro
212-33 Systematic Studies on Catalytic Properties of 4d Transition-Metal Nanoparticles Covered with a Metal-Organic Framework (Fac. Sci., Kyoto Univ.) ○AOYAMA, Yoshimasa; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi
212-34 Origin of Gas-liquid Interface Change in Synthesis of Cu Nanoparticles by Photocatalyst (Grad. Sch. Sci. Eng., Chuo Univ.) ○SEKI, Ryoya; MIYAGAWA, Masaya; TANAKA, Hideki
212-35 Rapid Synthesis of Spherical Porous Silica Nano Particles by Using Tannic Acid (ORIST; Grad. Sch. Eng., Osaka Pref. Univ.) ○DOHSHI, Satoru; MINE, Shinya; HORIUCHI, Yu; MATSUOKA, Masaya
212-36[#] Crosslinkers for Construction of Superlattices Composed of Metal and Semiconducting Nanoparticles (Grad. Sch. Eng., The Univ. of Tokyo; RIKEN CEMS) ○AOKI, Tsubasa; UEDA, Michihisa; LIU, Liming; ITOH, Yoshimitsu; ISHIDA, Yasuhiro; AIDA, Takuzo
212-37 Synthesis of copper nanoplates by photoreduction on saponite using copper nitrate (Fac. Sci. Eng., Chuo Univ.) ○YAMZAKI, Yuya; TANAKA, Hideki

Chair: ITOH, Yoshimitsu (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(212-39, 212-40, 212-41, 212-42, 212-43, 212-44)
212-39 Synthesis of copper nanoparticles by photoreaction for thin film blended of copper acetate with montmorillonite (Fac. Sci. Eng., Chuo Univ.) ○AKIMOTO, Kai; SHIBUSAWA, Akane; TANAKA, Hideki
212-40[#] Preparation and characterizations on oxidation catalysis of Au clusters protected by polyvinylpyridine (Grad. Sch. Sci., The Univ. of Tokyo) ○MATSUO, Atsushi; TAKANO, Shinjiro; TSUKUDA, Tatsuya
212-41 Synthesis and Photochemical Properties of Anisotropic-shaped ZnSe-AgInSe₂ Nanoparticles (Grad. Sch. Eng., Nagoya Univ.) ○MASUOKA, Ko; KAMEYAMA, Tatsuya; KUWABATA, Susumu; TORIMOTO, Tsukasa
212-42 Synthesis of core-shell nanoparticles by using plate-like nanocrystals as seeds (Grad. Sch. Eng., TUS) ○MINAKAWA, Muneharu; IMURA, Yoshiro; WANG, Kehsuan; KAWAI, Takeshi

- 212-43** Electrochemical Reduction of Carboxylic Acid on Ti-AiO_x Catalysts (Grad. Sch. Sci., Kyushu Univ.) ○EGUCHI, Hiroto; YAMAUCHI, Miho
212-44 Laser trapping and deposition of gold nanoparticles coupled with PNIPAM phase separation (Fac. Eng., Tokushima Univ.; National Chiao Tung Univ.) ○AIBARA, Issei; KUDO, Tetsuhiro; FURUBE, Akihiro; HASHIMOTO, Shuichi; MASUHARA, Hiroshi

Chair: KAWASAKI, Hideya (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(212-46, 212-47, 212-48, 212-49, 212-50)
212-46 Preparation of Chiral Gold Nanorods by Plasmon-Induced Charge Separation (IIS, The Univ. of Tokyo) ○MORISAWA, Kazeto; ISHIDA, Takuya; TATSUMA, Tetsu
212-47 Tyrosinase-mediated peptide conjugation with chitosan-coated gold nanoparticles (NIT, Toyama College) ○SAKONO, Naomi; NAKAMURA, Kosuke; SAKONO, Masafumi
212-48 In situ formation of SERS active nanostructures by co-aggregation method and applications to analysis (LASTI, Univ. of Hyogo; Archilys; Grad. Sch. Eng., Doshisha Univ.) ○FUKUOKA, Takao; MORI, Yasushige; YAMAGUCHI, Akinobu
212-49 Photodynamic therapy effects of phthalocyanine nanoparticles on rat pheochromocytoma PC12 cells (Grad. Sch. Sci., Eng., Ehime Univ.) ○HIMEDA, Taisei; KIHARA, Ryo; KUNITOMI, Risako; ZAKO, Tamotsu; ASahi, Tsuyoshi
212-50 Preparation of gold-colored organic crystal thin film by electrophoretic deposition (Fac. Eng., TUS) ○YANADA, Kousaku; SAITO, Norio

Monday, March 18, AM

Solid Surfaces and Interfaces

Chair: MITOMO, Hideyuki (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(312-07, 312-08, 312-09, 312-10, 312-11)
312-07 Formation of Hydroxyapatite Layers on Gold Plate Surfaces Utilizing Peptides (Fac. Eng., TUS; Grad. Sch. Eng., TUS; Fac. Sci. Tech., Keio Univ.) ○KAMEI, Sayaka; TANAKA, Shun; YATAKA, Yusuke; MATSUBARA, Teruhiko; SATO, Toshinori; HASHIZUME, Mineo
312-08 Evaluation of Adhesion Strength of Hydroxyapatite Layers Formed by Biomimetic Processes to Polymer Film Surfaces (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○IKEMURA, Mitsumasa; TAKADA, Kouhei; YATAKA, Yusuke; HASHIZUME, Mineo
312-09 Immobilization of Conductive Polymers on Polyimide Film Surfaces Using Hot Press Techniques (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○MORI, Motoi; IWAKI, Hiroshi; YATAKA, Yusuke; HASHIZUME, Mineo
312-10 Effect of Polymer Adding Methods on Their Immobilization on Poly (ether ether ketone) Substrate Surfaces Using Supercritical Fluids (Fac. Eng., TUS; Grad. Sch. Chem. Sci. Technol., TUS) ○TAKAGI, Hiroshi; ZENBA, Takashi; YATAKA, Yusuke; HASHIZUME, Mineo
312-11[#] Thin-Film Formation and Functionalization of Layered Inorganic Compounds with Intercalated Organic Molecules (Grad. Sch. Eng., The Univ. of Tokyo) ○KAJIYAMA, Satoshi; TOOSAKA, Yuu; KATO, Takashi

Chair: HASHIZUME, Mineo (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(312-14, 312-16, 312-18, 312-19)
312-14[#] SHINERS studies on Subnano-Clusters isolated by Graphene Oxide Monolayer (Lab. Chem. Life Sci., Tokyo Tech.) ○TANG, Yuansen; KUZUME, Akiyoshi; ADVINCULA, Rigoberto; YAMAMOTO, Kimihisa
312-16[#] Development of Highly Confined Light Energy Field Using Plasmonic Surface Lattice Resonance (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OIKAWA, Shunpei; MINAMIMOTO, Hiro; MURAKOSHI, Kei
312-18 Control of nanoscale change in gap distances between gold nanodots with poly(acrylic acid) gel surface (RIES, Hokkaido Univ.) ○HAMAJIMA, Satoru; MITOMO, Hideyuki; MATSUO, Yasutaka; NIHKURA, Kenichi; IJIRO, Kuniharu
312-19 Halide Effects on the Formation of Gold Micro- and Nanostructures (Fac. Eng., TUS) ○CUI, Siyang; WANG, Kehsuan; IMURA, Yoshiro; KAWAI, Takeshi

Monday, March 18, PM

Chair: KUZUME, Akiyoshi (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(312-27, 312-28, 312-30, 312-31, 312-32)
312-27 Direct Observation of Electrochemical Synthesis of Iron Oxides and Hydroxides by in-situ X-ray Absorption Spectroscopy (Fac. Eng., TUS) ○WATANABE, Genta; WANG, Ke Hsuan; YOSHIDA, Masaki; IMURA, Yoshiro; KAWAI, Takeshi
312-28[#] Characterization and HER catalytic activity of novel rhodium carbide (Dep. Chem., Sch. Sci., Kyoto Univ.) ○WAKISAKA, Takuo; KUSADA, Kouhei; WU, Dongshuang; YAMAMOTO, Tomokazu; MATSUMURA, Syo; TORIYAMA, Takaaki; XIE, Wei; KOYAMA, Michihisa; AKIBA, Hiroshi; YAMAMURO, Osamu; IKEDA, Kazutaka; OTOMO, Toshiya;

- KAWAGUCHI, Shogo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi
- 312-30** Modification of aniline derivatives on graphene covered Au (111) surface (Grad. Sch. Env. Sci., Hokkaido Univ.) ○NISHIYAMA, Keisuke; TSURUGAI, Rina; TANNO, Shun; YASUDA, Satoshi; KATO, Masaru; YAGI, Ichizo
- 312-31** Support effects on electrocatalytic activity of Pt-Ni nanostructures (Fac. Env. Earth Sci., Hokkaido Univ.) ○NAKAHOSHIBA, Ryota; LI, Tianchi; OGURA, Kazuya; FUJIBAYASHI, Natsuki; YASUDA, Satoshi; KATO, Masaru; YAGI, Ichizo
- 312-32** Effects of molecular-grafted surface of catalyst supports on ionomer orientation and oxygen reduction reaction activity (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MURAMATSU, Shun; KATO, Masaru; HASEGAWA, Naoki; KITANO, Naoki; KATO, Hisao; YAGI, Ichizo

Chair: IMURA, Yoshirou (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(312-34, 312-36, 312-37, 312-38, 312-39)
- 312-34*** Interfacial investigation using Shell-isolated Nanoparticle-enhanced Raman spectroscopy: ex situ and in situ measurements (IIR, Tokyo Tech.) ○KUZUME, Akiyoshi; YAMAMOTO, Kimihisa
- 312-36** Development of High sensitivity Shell-isolated Nanostar-enhanced Raman spectroscopy (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMADA, Yuki; TANG, Yuansen; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa
- 312-37** Direct detection of Tin Oxide subnano clusters by High sensitivity Shell-isolated nanoparticle-enhanced Raman spectroscopy (Tokyo Tech.) ○OZAWA, Miyu; TANG, Yuansen; HARUTA, Naoki; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa
- 312-38** Self-Accumulation of Graphene Oxide / Melamine Composite on Electroplated Steel Plate (Grad. Sch. Sci. Eng., Chuo Univ.) ○YAMAMOTO, Takeru; SAITO, Ryo; SUGIMOTO, Wataru; HAGA, Masa-aki
- 312-39** Evaluation of molecular selective optical trapping via electrochemical surface enhanced Raman scattering observation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OYAMADA, Nobuaki; MINAMIMOTO, Hiro; MURAKOSHI, Kei

Chair: KANO, Hirofumi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(312-41, 312-43, 312-45, 312-46)
- 312-41**** Subnanometer Scale gaps between graphene oxide layers with Water adsorption (X-Breed, Shinshu Univ.) ○FUTAMURA, Ryusuke; IYAMA, Taku; UEDA, Takahiro; KANEKO, Katsumi
- 312-43**** Ambient pressure induction mechanism of cyclohexanediol high pressure synthesis inside single wall carbon nanotubes (X-Breed, Shinshu Univ.) ○FURUSE, Ayumi; FUTAMURA, Ryusuke; KANEKO, Katsumi
- 312-45** Synthesis of Novel Mesoporous Carbon from Graphene Oxide (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○AKASHI, Kotaro; OHKUBO, Takahiro; KURODA, Yasushige
- 312-46** Synthesis of Microporous Boron Nitride and Its Adsorption Capacity of Gas Molecules (Fac. Sci., Okayama Univ.; Grad. Sch. Nat. Sci. Technol., Okayama Univ.) KIMURA, Jun; ○OHKUBO, Takahiro; KURODA, Yasushige

Tuesday, March 19, AM

Chair: IYAMA, Taku (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(412-01, 412-02, 412-03, 412-05, 412-06)
- 412-01** Friction and Lubrication Properties between Thin Layers of Concentrated Polymer Brush (NICH, Tohoku Univ.; IMRAM, Tohoku Univ.; ICR, Kyoto Univ.) ○TAKAHASHI, Yutaka; MIZUKAMI, Masashi; TSUJII, Yoshinobu; KURIHARA, Kazuo
- 412-02** The studies of shear velocity dependence on properties of spatially confined liquid (OMCTS) by Resonance Shear Measurement (IMRAM, Tohoku Univ.) ○SHIBUYA, Yuuta; MIZUKAMI, Masashi; KURIHARA, Kazuo
- 412-03**** Dynamic Properties of Non-aqueous Binary Solvent Electrolyte Solution in the Vicinity of Silica Surfaces (Grad. Sch. Eng., Kobe Univ.) ○KUNIKATA, Nobuaki; TAKEMOTO, Marie; KASUYA, Motohiro; MAKI, Hideshi; MATSUI, Masaki; KURIHARA, Kazuo; MIZUHATA, Minoru
- 412-05** Electrical Conductivity of Electrolyte Solution Coexisting with Surface Charge Modified Metal Oxides (Grad. Sch. Eng., Kobe Univ.; Center for Environmental Management, Kobe Univ.) MINAMIYAMA, Tatsuto; MAKI, Hideshi; MATSUI, Masaki; ○MIZUHATA, Minoru
- 412-06** Effect of surface roughness on hydrogen nanobubbles formed at platinum electrode surface (Fac. Sci., Saitama Univ.) ○SAMEJIMA, Yudai; KASHIWAGI, Kentaro; HATTORI, Tamon; YOSHIKAWA, Hiroshi; KAWAMURA, Ryuzo; KOBAYASHI, Naritaka; NAKABAYASHI, Seiichi

Chair: KONDO, Atsushi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(412-08, 412-09, 412-10, 412-11, 412-12, 412-13)
- 412-08** Investigation temperature-dependence on binary adsorption by pres-

sure feedback system (Fac. Sci., Shinshu Univ.) ○TOSHIMA, Kazuma; INOUE, Naho; IYAMA, Taku

- 412-09** The controlling the pore size and surface properties of SBA-15 by ionic liquid (Fac. Sci., Shinshu Univ.) ○ISHII, Seiichi; IYAMA, Taku
- 412-10** A Study of Intermolecular Structure and Adsorption Mechanism of Water and Alcohols in Single-Walled Carbon Nanotubes (Fac. Sci., Shinshu Univ.) ○IWASHITA, Hiroaki; YOSHIMOTO, Masatsugu; IYAMA, Taku
- 412-11** Mobility of water molecules in KCl aqueous solution confined inside single wall carbon nanotube (X-Breed, Shinshu Univ.) FUTAMURA, Ryusuke; ○KANEKO, Katsumi
- 412-12** NMR Study of Dynamic Structure of Hydrated Ions formed in Mesopores (Grad. Sch. Sci., Osaka Univ.; The Museum of Osaka Univ.) OGURA, Ryota; ○UEDA, Takahiro
- 412-13** CO₂ gas sorption of graphite oxide (GO) and amine-intercalated GO (Grad. Sch. Sci., Chiba Univ.) FUKUDA, Takao; ○KANO, Hirofumi

Chair: UEDA, Takahiro (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(412-15, 412-16, 412-17, 412-18, 412-19)
- 412-15** Adsorption properties of inorganic oxides made by replication of 3D Metal-organic Frameworks (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KONDO, Atsushi; MAEDA, Kazuyuki
- 412-16*** Reaction Kinetics of Adsorption and Structure Change of Alkanethiol Self-Assembled Monolayers on Silver Surfaces (NIT, Tokyo College) ○ITO, Mikio; OTAKE, Shun; NAKAMORI, Shogo; NAKAMURA, Akari
- 412-17** Regioselective oxidation of aliphatic ketones on ZnO single-crystal nanowires (IMCE, Kyushu Univ.) ○HOSOMI, Takuro; INOUE, Akihito; NAGASHIMA, Kazuki; TAKAHASHI, Tsunaki; ZHANG, Guozhu; KANAKI, Masaki; YANAGIDA, Takeshi
- 412-18** Fabrication of densely-packed silver nanoparticle ultra thin-films by liquid-liquid interfacial precipitation method and their photochemical properties (Sch. Eng., The Univ. of Shiga Pref.) ○KOYAMA, Natsuki; AKIYAMA, Tsuyoshi; OKU, Takeo
- 412-19** Fabrication and evaluation of phosphorescent materials modified with gold nanoparticles (Sch. Eng., The Univ. of Shiga Pref.) ○MATSUMIYA, Yusuke; AKIYAMA, Tsuyoshi; OKU, Takeo

Room I3

Bldg. 10 1013

Organic Chemistry -Reaction and Synthesis-Aromatic Compounds Saturday, March 16, AM

Chair: HIDA, Keisuke (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(113-07, 113-08, 113-09, 113-10, 113-11)
- 113-07** Direct α -Arylation of Alcohols with Aryl Halides through a Radical Chain Mechanism (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○AOKI, Kohei; IKEDA, Yuko; UENO, Ryota; SHIRAKAWA, Eiji
- 113-08** Homolytic Aromatic Substitution with Alkyl Radicals Generated through Hydrogen Abstraction and β -Scission (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○IKEDA, Yuko; SHIRAKAWA, Eiji
- 113-09** Diversity-oriented Synthesis of Multisubstituted Benzoheteroles through Efficient Transformations of Trifluoromethyl Group (IBB, Tokyo Med. and Dental Univ.) ○IKEDA, Mai; MATSUZAWA, Tsubasa; MORITA, Takamoto; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 113-10** Facile Synthesis of *N*-Arylphenothiazines by Rearrangement of *o*-Sulfanylanilines (IBB, Tokyo Med. and Dental Univ.) ○MATSUZAWA, Tsubasa; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 113-11** Direct Synthesis of Phenoxathiins by the Reaction of Aryl Thiosulfonates Bearing a Hydroxy Group with Arynes (IBB, Tokyo Med. and Dental Univ.) ○KANEMOTO, Kazuya; YOSHIDA, Suguru; HOSOYA, Takamitsu

Chair: YOSHIDA, Suguru (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(113-13, 113-14, 113-15, 113-16, 113-17)
- 113-13** Brønsted Acid-Catalyzed One-Step Construction of *o*-Diindolylbenzenes (Sch. Sci. Eng., Meiji Univ.) ○OKUSA, Takumi; TSUCHIMOTO, Teruhisa
- 113-14** Brønsted Acid-Catalyzed Synthesis of Helical Polycyclic Aromatic Hydrocarbons (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SHOJI, Noriaki; HAYASHI, Masaki; FUJITA, Takeshi; ICHIKAWA, Junji
- 113-15** Asymmetric Mannich-type reaction of malononitrile with α -ketiminoesters using acid-base bifunctional catalyst (Grad. Sch. Sci., Chiba Univ.) ○NISHIDA, Yuki; KUWANO, Satoru; ARAI, Takayoshi
- 113-16** Disulfide-catalyzed Aromatic Iodination Reaction (Grad. Sch. Sci., Chiba Univ.) ○ISHIDA, Shunsuke; IIDA, Keisuke; WATANABE, Takamichi; ARAI, Takayoshi

113-17 Regioselectivity control of aromatic nucleophilic substitution reaction by combination of substituent of polyfluoroarene and nucleophilic agent (Fac. Sci., Gakushuin Univ.) ○AMATATSU, Julia; SHIMADA, Naohiro; MIYAGAWA, Masamichi; AKIYAMA, Takahiko

Saturday, March 16, PM

Chair: NISHII, Yuji (13 : 00~13 : 50)

- * 12:50-13:00: interval for laptop PC connection.(113-25, 113-27, 113-28, 113-29)
- 113-25*** Diboron-Catalyzed Dehydrative Amidation of Aromatic Carboxylic Acids with Amines (Grad. Sch. Sci., Nagoya Univ.) ○BAGAL, Dattatraya B.; SAWANT, Dinesh N.; KALIYAMOORTHY, Selvam; SAITO, Susumu
- 113-27** Convergent Synthesis of Polycyclic Compounds via Arynes Bearing a 1,3-Diylne Moiety (IBB, Tokyo Med. and Dental Univ.) ○SHIMIZU, Keita; UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 113-28** Facile Synthesis of *o*-Iodoaryl Triflates by Desilyliodination (IBB, Tokyo Med. and Dental Univ.) ○YOSHIDA, Suguru; HAZAMA, Yuki; KANEMOTO, Kazuya; NAKAMURA, Yu; HOSOYA, Takamitsu
- 113-29** Facile Synthesis of Multisubstituted Diarylpyrazoles by Sequential Cross-coupling and Consecutive Aryne Generations (IBB, Tokyo Med. and Dental Univ.) ○KOBAYASHI, Tsuneyuki; YOSHIDA, Suguru; HOSOYA, Takamitsu

Chair: TAKENAKA, Kazuhiro (14 : 00~14 : 50)

- * 13:50-14:00: interval for laptop PC connection.(113-31, 113-32, 113-33, 113-34, 113-35)
- 113-31** Direct Arylation of Parent Nitronyl Nitroxide by Pd-catalyzed Cross-Coupling Reaction (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAKAMURA, Fumiya; SUZUKI, Shuichi; NAOTA, Takeshi
- 113-32** Pd(II)-catalyzed acetalization diazoquinone (Grad. Sch. Eng., KIT) ○FUJIMURA, Ryo; NISHIMURA, Tomoaki; TAKAHASHI, Shuhei; SHIMOOKA, Hirokazu; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 113-33** Diazotization of phenols with azido imidazolium salt (Grad. Sch. Eng., KIT) ○ETO, Takashi; KONAI, Kazushige; TAKAHASHI, Shuhei; SHIMOOKA, Hirokazu; OKAUCHI, Tatsuo; KITAMURA, Mitsuru
- 113-34** Acid-Mediated Aromatic Carbon-Fluorine Bond Activation: Coupling of Fluorobenzofurans with Arenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○MORIYOKA, Ryuraro; FUKUDA, Takuya; FUJITA, Takeshi; ICHIKAWA, Junji
- 113-35** Synthetic Route to Trifluoromethyl Indoles via Oxidative Cyclization of Sulfonamido-Substituted Styrenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○IDE, Keisuke; MOJIMA, Tomoya; FUJITA, Takeshi; ICHIKAWA, Junji

Chair: FUJITA, Takeshi (15 : 00~15 : 50)

- * 14:50-15:00: interval for laptop PC connection.(113-37, 113-38, 113-39, 113-40, 113-41)
- 113-37** Synthesis of boron complex using 1-azaazulene derivatives as a ligand (Fac. Sci. Technol., TUS) ○CHISHIMA, Tatsuya; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 113-38** Al-catalyzed Friedel-Crafts-Type Benzylolation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○HACHIYA, Asuka; YURINO, Taiga; OHKUMA, Takeshi
- 113-39** Sulfide-Catalyzed Halogenation of Aromatic Compounds using *N*-Halosuccinimides (Grad. Sch. Eng., Osaka Univ.) ○IKEDA, Mitsuhiro; NISHII, Yuji; MIURA, Masahiro
- 113-40** Construction of trifluoromethylated quaternary stereocenters via *p*-quinonemethides (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TERASHIMA, Kyu; SHIBATA, Ryunosuke; KAWASAKI-TAKASUKA, Tomoko; YAMAZAKI, Takashi
- 113-41*** Development of New Chiral Ligands Based on a Tetraphenylene Backbone (ISIR, Osaka Univ.) ○KATAOKA, Kousuke; TAKENAKA, Kazuhiro; SASAI, Hiroaki

Chair: YURINO, Taiga (16 : 00~16 : 40)

- * 15:50-16:00: interval for laptop PC connection.(113-43, 113-44, 113-45, 113-46)
- 113-43** Acceleration Effect of a Single Electron Donor in the Electron-Catalyzed Cross-Coupling Reaction (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MIZUSAWA, Sahiro; IKEDA, Yuku; SHIRAKAWA, Eiji
- 113-44** Electron-Catalyzed Cross-Coupling of Arylboron Compounds with Aryl Halides Accelerated by a Photoredox Catalysis (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OTA, Yuki; IKEDA, Yuku; SHIRAKAWA, Eiji
- 113-45** Photo-induced transformation of arylsulfonimides through aryl migration (Grad. Sch. Sci., Nagoya Univ.) ○SAKAKIBARA, Yota; MURAKAMI, Kei; ITAMI, Kenichiro
- 113-46** Deprotection of 2-nitrobenzyl ether by using LED lamp. (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KUROBOSHI, Manabu; KAMIO, Nana

Sunday, March 17, AM

Chair: TAKIKAWA, Hiroshi (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(213-01, 213-02, 213-03, 213-04,

213-05)

- 213-01** Facile Synthesis of Diverse Quinolines Based on "Aryne Relay Chemistry" (IBB, Tokyo Med. and Dental Univ.) ○NAKAMURA, Yu; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 213-02** Concise Synthesis of Multisubstituted Aromatic Organosulfurs with Various Valence States Based on Aryne Relay Chemistry (IBB, Tokyo Med. and Dental Univ.) ○MIYATA, Yoshihiro; NAKAMURA, Yu; UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 213-03** Generation of Arynes Triggered by Activation of Iodo Group with Hydrosilane and Base (IBB, Tokyo Med. and Dental Univ.) ○UCHIDA, Keisuke; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 213-04** Synthesis of dicyclobutabiphenylenes having electron withdrawing groups (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○IKESHIMA, Ryo; HAMURA, Toshiyuki
- 213-05** Synthesis of novel π -conjugated molecules with biphenylene framework (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMAGUCHI, Shohei; IKESHIMA, Ryo; HAMURA, Toshiyuki

Chair: HAMURA, Toshiyuki (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(213-07, 213-09, 213-11)
- 213-07**** Synthesis and Physicochemical Properties of Air-Stable Ynamines, and the Subsequent Dephosphorylative Click Reaction (Fac. of Eng., Okayama Univ. of Sci.) ○OKUDA, Yasuhiro; SEO, Tomoyo; SHIGEZANE, Yuki; ORITA, Akihiro
- 213-09**** Intramolecular Benzyne-Phenol [4+2] Cycloaddition Enabled by Silicon-Tether Strategy (Sch. Sci., Tokyo Tech.; Grad. Sch. Pharm. Sci., Kyoto Univ.; Grad. Sch. Pharm., The Univ. of Tokyo; Elements Chem. Lab., RIKEN) ○NISHII, Arata; TAKIKAWA, Hiroshi; HIRANO, Keiichi; OHMORI, Ken; UCHIYAMA, Masanobu; SUZUKI, Keisuke
- 213-11** Facile construction via ketol rearrangement reaction of benzobicyclo [3.2.1]octadiene structure (Sch. Sci., Tokyo Tech.; Grad. Sch. Pharm. Sci., Kyoto Univ.) ○TANAKA, Masato; NISHII, Arata; TAKIKAWA, Hiroshi; OHMORI, Ken; SUZUKI, Keisuke

Chair: HOSOYA, Takamitsu (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(213-13, 213-15, 213-16, 213-17)
- 213-13**** Synthesis of α -Trifluoromethylated Ketones using Trifluoromethanesulfonic Acid or Anhydride (Grad. Sch. Sci. Tech., Yamaguchi Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KAWAMOTO, Takuji; SASAKI, Rio; TAKATA, Ryotaro; NOGUCHI, Kohki; MOCHIMIZO, Keisuke; KAMIMURA, Akio
- 213-15** Development of stimuli-responsive chiral auxiliary that switches the stereoselectivity in response to external stimuli (Grad. Sch. Eng., TUS) ○JINDE, Akinori; IMAHORI, Tatsushi
- 213-16** Stimuli-responsive phosphoramidate Catalysts toward universal control of Diastereoselectivity in Mukaiyama Aldol Reaction (Grad. Sch. Eng., TUS) ○SASAKI, Aya; ABE, Yuina; IMAHORI, Tatsushi
- 213-17** Reductive coupling reaction behavior of neighbouring carbonyl groups in peri-arylnaphthalene compound and spatial organization of the substrate. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MIZUMA, Risa; MIDO, Takahiro; IITSUKA, Hiroaki; DOI, Taiki; YAKITA, Daisuke; YONEZAWA, Noriyuki; OKAMOTO, Akio

Sunday, March 17, PM

Chair: KAWAMOTO, Takuji (13 : 00~13 : 50)

- * 12:50-13:00: interval for laptop PC connection.(213-25, 213-27, 213-28, 213-29)
- 213-25*** Sequential Click Reaction Based on Azido-type Selective Protection via Formation of Phosphazide (IBB, Tokyo Med. and Dental Univ.) ○MEGURO, Tomohiro; IGAWA, Kzunobu; TOMOOKA, Katsuhiko; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 213-27** Development of Novel Click Reaction Tools for Efficient Synthesis of Multifunctional Molecular Probes (IBB, Tokyo Med. and Dental Univ.) ○KORI, Daisuke; NISHIYAMA, Yoshitake; MAKIO, Naoaki; FUJII, Saki; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 213-28*** Oxidative Ring Expansion Reaction for Synthesis of 7-Membered Ring-fused π -Conjugated Polycycles (Grad. Sch. Sci., Tohoku Univ.) ○ZHANG, Sheng; JIN, Tienan; TERADA, Masahiro
- 213-29** Synthesis of Novel Polysilylated Anthracene Derivatives via Reductive Silylation and Their Reactions (Grad. Sch. Sci. Tech., Gunma Univ.) ○KANNO, Ken-ichiro; KONITA, Shiho; SHINOHARA, Ayano; KYUSHIN, Soichiro

Chair: TERADA, Masahiro (14 : 00~14 : 50)

- * 13:50-14:00: interval for laptop PC connection.(213-31, 213-34, 213-35)
- 213-31*** Young Scholar Lectures of CSJ Development of catalytic aromatic functionalization toward new π -aromatics (WPI-ITbM, Nagoya Univ.) ○MURAKAMI, Kei
- 213-34*** Synthesis of Sterically Hindered 4,5-Diarylphenanthrenes via Acid-catalyzed Bisannulation of Benzenediactaldehydes with Alkynes (Grad. Sch. Sci., Nagoya Univ.) ○LI, Yuanming; YAGI, Akiko; ITAMI, Kenichiro
- 213-35** The substituent effect of axial rotation behavior of biphenyl bridged

anthracene dimer (Grad. Sch. Sci., Osaka Univ.) ○YAMANO, Masashi; NISHIUCHI, Tomohiko; KUBO, Takashi

Chair: MURAKAMI, Kei (15 : 00~15 : 50)

- * 14:50-15:00: interval for laptop PC connection.(213-37, 213-38, 213-39, 213-40, 213-41)
- 213-37** Synthesis of Isoanthracenofuran Derivatives by Cycloaddition of Didehydroisobenzofuran (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○JUNG, Sunna; MIYAKAWA, Kaoru; MATSUOKA, Suguru; HAMURA, Toshiyuki
- 213-38** Synthesis of Disc-Shaped Aromatic Polyketones (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KANZAKI, Masayoshi; ADACHI, Kazuhiko; HAMURA, Toshiyuki
- 213-39** Synthesis of Propeller-Shaped Isobenzofuran and its Application (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○NAKAHASHI, Ryota; JUNG, Sunna; HAMURA, Toshiyuki
- 213-40** Synthesis and properties of 2,2'-bi(1,4-dialkyl-9,10-anthraquinone) (Grad. Sch. Eng., The Univ. of Shiga Pref.) ○KONDO, Aki; KATO, Shin-ichiro; KITAMURA, Chitoshi
- 213-41** Synthesis and Properties of Dicyclopenta[*b,g*]naphthalenes Fused with Various Aromatics (Sch. Eng., The Univ. of Shiga Pref.; Sch. Sci. Tech., Gunma Univ.; IMCE, Kyushu Univ.) ○HAYASHI, Hideki; MIYAUCHI, Hidenori; MATSUMOTO, Taisuke; NAKAMURA, Yosuke; KIYAMURA, Chitoshi; KATO, Shin-ichiro

Chair: HIROTO, Satoru (16 : 00~16 : 50)

- * 15:50-16:00: interval for laptop PC connection.(213-43, 213-45, 213-46, 213-47)
- 213-43** Syntheses of Functionalized Polyaromatic Compounds by Using Quinoidal Reactive Molecules (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KITAMURA, Kei; KUDO, Ryoji; HAMURA, Toshiyuki
- 213-45** Synthesis of substituted tetracenes by using alkynyl isobenzofuran (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SOGA, Eri; KEI, Kitamura; HAMURA, Toshiyuki
- 213-46** Synthesis and stereochemical behavior of 1,10-anthracenophane (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SOGA, Eri; KITAMURA, Kei; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; HAMURA, Toshiyuki
- 213-47** Synthesis of π -conjugated molecules based on thermally-stable *ortho*-quinodimethane (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ADACHI, Kazuhiko; HAMURA, Toshiyuki

Monday, March 18, AM

Chair: MOROFUJI, Tatsuya (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(313-07, 313-08, 313-09, 313-10, 313-11)
- 313-07** Development of facile synthetic methods of H₂O@C60 using a triazine derivative (ICR, Kyoto Univ.) ○KIM, Kyusun; ZHANG, Sheng; HASHIKAWA, Yoshifumi; MURATA, Yasujiro
- 313-08** Fullerene-Cation-Mediated Synthesis of Cyclo[60]fullerenes with 5-Membered-Ring and their Application in Perovskite Solar Cells (Grad. Sch. Eng., The Univ. of Tokyo) ○LIN, Hao-sheng; JEON, Il; MARUYAMA, Shigeo; MATSUO, Yutaka
- 313-09** Synthesis of Fully Fused Hexabenzocoronene Dimer (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○URYU, Mizuho; MURAKAMI, Kei; ITAMI, Kenichiro
- 313-10** Synthesis of Coronene Analogue by Intramolecular Biaryl Coupling Reaction of Cyclic Triamide Derived from *N*-Alkylated 4-Amino-2-bromobenzoic Acid (Fac. Sci. and Technol., Seikei Univ.) ○ISHII, Arisa; OHISHI, Tomoyuki; YOKOYAMA, Akihiro
- 313-11** Synthesis and device characteristics of extended π -conjugated electron-accepting molecules by introducing multiple cyano groups. (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TSUKAMOTO, Kenji; TAKAGI, Koji; YUTAKA, Ie

Chair: HASHIKAWA, Yoshifumi (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(313-13, 313-14, 313-15, 313-16, 313-17)
- 313-13** Intramolecular cyclization reaction of [7]-Thiaheterohelicene Derivative and Reactivities of Cyclized Product (Grad. Sch. Sys. Eng., Wakayama Univ.) ○NAKANISHI, Tatsuya; OSUGA, Hideji; SAKAMOTO, Hidefumi
- 313-14** Synthesis of iptycenes utilizing aryne derived from triptycene (Grad. Sch. Eng. Sci., Kyushu Univ.) ○FUKAMI, Takuto; IWATA, Takayuki; SHINDO, Mitsuru
- 313-15** Synthesis of Cage-shaped Molecules Based on *Syn*-substituted Triptycenes (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○YOSHINAGA, Tatsuro; IWATA, Takayuki; SHINDO, Mitsuru
- 313-16** Construction of a benzene ring connecting a carbonyl group and an aromatic ring via (5+1) annulation (Fac. Sci., Gakushuin Univ.) KINOSHITA, Hanae; ○MOROFUJI, Tatsuya; KANO, Naokazu
- 313-17** Synthesis of the bridged indigos and evaluation of their functions (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KANDA, Junya; IMAYOSHI, Ayumi; TSUBAKI, Kazuori

Room 14

Bldg. 10 1014

Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

Saturday, March 16, AM

Chair: KIYOKAWA, Kensuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(114-01, 114-02, 114-03, 114-04, 114-05, 114-06)
- 114-01** One-pot Synthesis of 2-Amino-4-arylthiazoles with alkylarenes, NBS and Thioureas (Fac. Sci., Chiba Univ.) ○SHIBASAKI, Kaho; TOGO, Hideo
- 114-02** Novel Preparation of Quinolines from Nitriles with Specific Character of Iodine (Grad. Sch. Sci. & Eng., Chiba Univ.) ○NARUTO, Hiroki; TOGO, Hideo
- 114-03** Development of Aerobic Oxidative Sulfenylation of Pyrazolones with Thiols using Flavinium-Iodine Catalysts (Fac. Sci. Eng., Shimane Univ.) ○TANIMOTO, Kazumasa; OHKADO, Ryoma; IIDA, Hiroki
- 114-04** Practical preparation of 5-ethyl-4a-hydroxyisoalloxazine and its use for catalytic aerobic oxygenations (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○KAWAHARA, Takayuki; OONISHI, Takahiro; ARAKAWA, Yukihiro; MINAGAWA, Keiji; IMADA, Yasushi
- 114-05** Homogeneous Flavopeptide Catalysts for Biomimetic Aerobic Oxygenations (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○UETA, Yu; KITA, Hazuki; YAMANOMOTO, Ken; ARAKAWA, Yukihiro; MINAGAWA, Keiji; IMADA, Yasushi
- 114-06** Visible-light-driven direct conversion of cyclic dithioacetal S,S-dioxides into carbonyls (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○KAMEI, Kensuke; TAGAMI, Takuma; ARAKAWA, Yukihiro; MINAGAWA, Keiji; IMADA, Yasushi

Chair: ARAKAWA, Yukihiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(114-08, 114-09, 114-10, 114-11, 114-12, 114-13)
- 114-08** A Study on Oxidation Ability of 3,5-Dinitropyridinium Salt (Sch. Env. Sci. Eng., KUT) ○KURODA, Yasuyuki; YOKOYAMA, Soichi; NISHIWAKI, Nagatoshi
- 114-09** Synthesis of Oxazolines from Alkenes and *N*-Chloroamides Catalyzed by Iodine (Sch. Eng., Osaka Univ.) ○KAKIZAKI, Yuuka; MINAKATA, Satoshi
- 114-10** Oxidative Diaziridination of Cyclic Secondary Amines Using *N*-Bromosulfonamide Salts as Nitrogen Sources (Grad. Sch. Eng., Osaka Univ.) ○KIYOSU, Yuuki; MINAKATA, Satoshi
- 114-11** Mn(III)-Based Oxidation of 1,7-Octadienes with Malonamide Derivatives (Kumamoto University) ○TACHIKAWA, Yu-ki; NISHINO, Hiroshi
- 114-12** Formation of Benzofurochromenones Using Mn(III)-Based Multi-step Oxidation of 3-Acetyl-2-(2-methoxyaryl)-4,5-dihydrofuran and the Mechanism (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○MORINAGA, Kouji; NISHINO, Hiroshi
- 114-13** Mn(III)-Based Oxidative Cyclization of 1,1-Diarylethenes with *N,N'*-Disubstituted Malonamides (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○SHIMOISHI, Ryutarou; NISHINO, Hiroshi

Chair: NISHIWAKI, Nagatoshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(114-15, 114-16, 114-17, 114-18, 114-19, 114-20)
- 114-15** Iodine-Catalyzed Synthesis of 4-Imidazolidinones via Dehydrogenative N-H/C(sp³)-H Coupling (Sch. Advanced Sci. Eng., Waseda Univ.) ○TANE, Marina; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 114-16** Mechanistic Analysis of Carbon-Nitrogen Bond Formation Reaction Using Boron Complex of *N*-Hydroxyamide as a Substrate (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○WADA, Kohei; MATSUMOTO, Makoto; URAKAWA, Kazuki; ISHIKAWA, Hayato
- 114-17** Synthesis of Tofisopam Using Photo-induced Benzylic C-H Carboxylation (Grad. Sch. Eng., Kyoto Univ.) ○MAKITA, Katsuhiko; MASUDA, Yusuke; ISHIDA, Naoki; MURAKAMI, Masahiro
- 114-18** Intramolecular C-H Amination of Sulfamate Esters Using Iodine Oxidants (Grad. Sch. Eng., Osaka Univ.) ○NAKAMURA, Shogo; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 114-19** Intramolecular C-H Amination of *N*-Alkylsulfamides Using Iodine Oxidants (Sch. Eng., Osaka Univ.) ○JOU, Keisuke; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 114-20** Aerobic oxidation of thiols using riboflavin derivatives as an organophotocatalyst (Fac. Sci. Eng., Shimane Univ.) ○OKA, Marina; IIDA, Hiroki

Saturday, March 16, PM

Chair: KAWASAKI, Tsuneomi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(114-28, 114-29, 114-30, 114-31, 114-32, 114-33)
- 114-28** Photo-induced formal [3 + 3] cycloaddition Reactions of Nitrones with Diaminomethanes (School of Pharm., Kitasato Univ.) TAKASHINO, Atsushi; ITOH, Kennosuke; OHTSUKA, Atsushi; KOBE, Mizuki; SAWAMURA, Shunsuke; KATO, Ryo; MIZUGUCHI, Takaaki; KARAKI, Fumika; HIRAYAMA, Shigetou; SUGA, Hiroyuki; ISHIDA, Hitoshi; FUJII, Hideaki
- 114-29** Substituent Effect for the Synthesis of Polyarylated Pyridines (Grad Sch. Eng., KUT) ○ARITA, Mao; YOKOYAMA, Soichi; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi
- 114-30** Use of Trichloroacetonitrile for Ring-Opening Reactions of Aziridines under UV Irradiation (Fac. Eng., Shinshu Univ.) ○MATSUDA, Riki; GOMYO, Shuto; TODA, Yasunori; SUGA, Hiroyuki
- 114-31** Borane-Catalyzed Synthesis of Silafluorenes by Double Sila-Friedel-Crafts Reaction (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○TAKATA, Yuta; YOSHIGOE, Yusuke; KUNINOBU, Yoichiro
- 114-32** Synthesis of pyrrolidines by [3 + 2] addition of sulfonylaziridines and α, β-unsaturated carbonyl compounds (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAGAWA, Yuya; YAMAGUCHI, Keigo; HOSOKAWA, Seijiro
- 114-33[#]** Halogen bond donor-catalyzed cross [4 + 2] cycloaddition reaction of 2-alkenylindoles (Grad. Sch. Sci., Chiba Univ.; Coll. Sci., Rikkyo Univ.) ○SUZUKI, Takumi; KUWANO, Satoru; YAMANAKA, Masahiro; ARAI, Takayoshi

Chair: HOSAKAWA, Seijiro (14 : 40~15 : 30)

- * 14:30-14:40: interval for laptop PC connection.(114-35, 114-37, 114-38, 114-39)
- 114-35[#]** Bulky Iodotriazolium Salts as Highly Active Halogen-Bonding-Donor Catalysts (Fac. Sci. Eng., Chuo Univ.) ○HARAGUCHI, Ryosuke; TORITA, Koki; KEMMOCHI, Satoshi; FUKUZAWA, Shin-ichi
- 114-37** Synthesis of Multiply Arylated Carbazoles (Sch. Advanced Sci. Eng., Waseda Univ.) ○TANAKA, Shuhei; ASAKO, Takashi; YAMAGUCHI, Junichiro
- 114-38** Cycloaddition Reaction of 1-Cyanomethyl-2-ethynylindoles with Reformatsky Reagents (Grad. Sch. Edu., Gifu Univ.) ○IIOKA, Ryoya; KAWAI, Rika; FEBRIA, Elvy Susanti; YOSHIMATSU, Mitsuhiro
- 114-39** Thiazino[3,2-*a*]benzimidazole as an Allyl Mercaptan Donor (Grad. Sch. Edu., Gifu Univ.; Kindai Univ.) ○MISHIMA, Naoya; TANABE, Genzoh; YOSHIMATSU, Mitsuhiro

Chair: HARAGUCHI, Ryosuke (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(114-42, 114-43, 114-44, 114-45, 114-46, 114-47)
- 114-42** Synthesis of Silicon-Containing Fused Polycyclic Compounds by Consecutive Intramolecular Dehydro-Diels-Alder Reactions of Silicon-Tethered Tetraynes (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAGAI, Rikako; SEKINE, Ayato; MITAKE, Akihito; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 114-43** Convenient Synthesis of Urolithin A Derivatives via Diels-Alder Reaction Using 2-Phenylfurans (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.; Fac. Agr., Saga Univ.) ○SONODA, Motohiro; HONDA, Yukari; TAKAHASHI, Hiroaki; IKEDA, Ayu; TANIMORI, Shinji; KAWAGUCHI, Shin-ichi
- 114-44** Synthesis of Nitrogen-Heterocyclic Compounds by [4 + 2] Cycloaddition of 1,2,3-Triazine Derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KODAMA, Takayuki; YAMADA, Akane; SASAKI, Ikuo; SUGIMURA, Hideyuki
- 114-45** Development of Synthetic Equivalent for Cyanonitrile Oxide (Sch. Env. Sci. Eng., KUT) ○KUMEGAWA, Yuta; YOKOYAMA, Soichi; NISHIWAKI, Nagatoshi
- 114-46** Oxazolidinone Synthesis by Tetraarylphosphonium Salt-Catalyzed Reactions of Glycidols and Isocyanates (Fac. Eng., Shinshu Univ.) ○TODA, Yasunori; TANAKA, Shoya; GOMYOU, Shuto; SUGA, Hiroyuki
- 114-47** Synthesis of benzoselenazole derivatives from isothiocyanate esters and diselenides and its reaction (Grad. Sch. Industrial Tech., Nihon Univ.) ○ISHIGAKI, Yui; ICHIKAWA, Hayato

Chair: TODA, Yasunori (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(114-49, 114-50, 114-51, 114-52, 114-53, 114-54)
- 114-49** Catalyst-free Sequential Click Reaction using Bifunctional Nitrile N-oxide (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUTSUBA, Toyokazu; ISHII, Ayumu; TAKATA, Toshikazu
- 114-50** Catalytic Asymmetric Mannich Reaction Using Optically Active BenzyliminoBINOL-Pd Complex (Grad. Sch. Sci., Chiba Univ.) ○NAKAMURA, Ayu; SATO, Katsuya; ARAI, Takayoshi
- 114-51** Catalytic Asymmetric Addition of Indoles with *N*-Cbz Ketimines Using Chiral NCN-Pincer-Type Palladium Complex (Grad. Sch. Sci., Chiba Univ.) ○ARASEKI, Kensuke; KAKINO, Junki; ARAI, Takayoshi

- 114-52** Development of asymmetric hetero Diels-Alder reaction of 1,2,4-triazoline-3,5-dione (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SATO, Yu; SUGA, Takuya; SOETA, Takahiro; UKAJI, Yutaka
- 114-53[#]** Enantioselective synthesis of spirooxindoles via Pictet-Spengler, oxidative and Wagner-Meerwein rearrangements of isotryptamine (ISIR, Osaka Univ.) ○MATSUYAMA, Naoki; KONDO, Masaru; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 114-54[#]** Intramolecular hydroamination of Alkenylamine Catalyzed by Chiral Sulfinamide (Grad. Sch. Sci., Hiroshima Univ.) ○DUONG THI, Duyen; ICHIKI, Toshiya; TAKAGI, Ryukichi; ABE, Manabu

Sunday, March 17, AM

Chair: YAMAMOTO, Eiji (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(214-01, 214-02, 214-03, 214-04, 214-05, 214-06)
- 214-01** Synthesis of 7-Substituted Benzofuran Derivatives Using Aluminum Reagent (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○MATSUDA, Chihiro; WATANABE, Kohei; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 214-02** Chiral benzazaborole-catalyzed enantioselective sulfonylation of cyclic cis-1,2-diols (Grad. Sch. Sci., Chiba Univ.) ○KUWANO, Satoru; HOSAKA, Yusei; ARAI, Takayoshi
- 214-03** Chiral benzazaborole-catalyzed site-selective sulfonylation reaction of carbohydrate derivatives (Grad. Sch. Sci., Chiba Univ.) ○HOSAKA, Yusei; KUWANO, Satoru; ARAI, Takayoshi
- 214-04** Asymmetric Synthesis of Thiochromans Using Bis(imidazolidine) pyridine-metal Catalyst (Grad. Sch. Sci., Chiba Univ.) ○IIMORI, Yuko; MIYAZAKI, Tomoya; OGAWA, Hiroki; ARAI, Takayoshi
- 214-05** Development of Proline-based Chiral Ionic Liquids Catalyst and Catalytic Abilities (Grad. Sch. Eng., Oita Univ.) ○HIRAI, Tatsuya; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 214-06** Synthesis of a novel planar chiral phase-transfer catalyst having hydroxyl groups and its asymmetric induction (Sch. Advanced Sci. Eng., Waseda Univ.) ○SATO, Wataru; KANOMATA, Nobuhiro

Chair: SHIBAHARA, Fumitoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(214-08, 214-10, 214-11, 214-12, 214-13)
- 214-08[#]** Phase-Transfer Catalytic Asymmetric Hydrolysis and Alcoholysis of α -Chiral Esters via Dynamic Kinetic Resolution (Fac. Sci., Kyushu Univ.) ○YAMAMOTO, Eiji; WAKAFUJI, Kodai; FURUTACHI, Yuhō; KOBAYASHI, Kaoru; CHO, Hyemin; KAMACHI, Takashi; TOKUNAGA, Makoto
- 214-10** Chiral Lewis Acid-Catalyzed Asymmetric Cycloaddition Reactions between Carbonyl Ylides and Aldehydes. (Fac. Eng., Shinshu Univ.) ○NAGASAKI, Kazuma; SATO, Kensuke; NAKAJIMA, Hirotaka; TODA, Yasunori; SUGA, Hiroyuki
- 214-11** Absolute Asymmetric Synthesis of Flavanone via Dynamic Crystallization Process (Grad. Sch. Eng., Chiba Univ.) ○SHIMIZU, Waku; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 214-12** Development of Absolute Asymmetric Diels-Alder Reaction (Grad. Sch. Eng., Chiba Univ.) ○TOYODA, Seiya; UEMURA, Naohiro; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; KASASHIMA, Yoshio; SAKAMOTO, Masami
- 214-13** Study on photochemical addition reaction of styrene with carbon tetrabromide using nitrogen-containing heterocyclic compounds (Gifu Pharm. Univ.) ○MATSUO, Kazuki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

Chair: FUCHIBE, Kohei (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(214-15, 214-16, 214-17, 214-19)
- 214-15** Synthesis of fluorinated heterocyclic compounds by decarboxylative fluorination (TUT) ○KAWANISHI, Ryouta; PHONGPHANE, Lacksany; IWASA, Seiji; SHIBATOMI, Kazutaka
- 214-16** Decarboxylative trifluoromethylthiolation of pyridylacetic acid derivatives (TUT) ○NAKADA, Kosuke; IWASA, Seiji; SHIBATOMI, Kazutaka
- 214-17^{*}** A Convenient Synthesis of Ethynylazoles via Pentadienyl Cations (Fac. Edu., Gifu Univ.) NOHARA, Mei; KUWABARA, Jun; ○YOSHIMATSU, Mitsuhiro
- 214-19[#]** New Synthesis of Benzothienobenzothiophene (BTBT) Derivatives (Fac. Sci. Eng., Saga Univ.) ○KITAMURA, Tsugio; MORITA, Kazuhiro; NAKAMORI, Haruka; OYAMADA, Juzo

Sunday, March 17, PM

Chair: ASAHARA, Haruyasu (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(214-34, 214-35, 214-36, 214-37, 214-38)
- 214-34** Development of novel heterocyclic ring synthesis utilizing character of thienyl ring (Sch. Adv. Eng., Kogakuin Univ.) ○OHTAKE, Kaoru; YASUI, Eiko; NAGUMO, Shinji
- 214-35** Synthesis of α -Diazoester by oxidation of hydrazoneoester (Sch. Adv. Eng., Kogakuin Univ.) ○YASUI, Eiko; NITANAI, Souta; NAGUMO,

Shinji

- 214-36** Synthetic study on polyacylated anthocyanin via reduction of flavonol (Nagoya Univ.) ○SHIBA, Kota; OYAMA, Kin-ichi; KONDO, Tadao; YOSHIDA, Kumi
- 214-37** Synthesis of anthocyanin-flavone hybrid pigment and its application of dye-sensitized solar cell (Nagoya Univ.) ○SAKAI, Yusuke; OYAMA, Kin-ichi; WAKAMIYA, Atsushi; KONDO, Tadao; YOSHIDA, Kumi
- 214-38*** Synthesis of Carboxylic Acid Derivatives Utilizing Triazinyl-Group-Induced Properties (Oita Univ. Faculty of Science and Technology) ○HIRAO, Shotaro; YANAI, Yuina; TOMITAKA, Miharu; TAKAHASHI, Toru; HARADA, Takunori; NISHIWAKI, Nagatoshi; OHGA, Yasushi

Chair: YASUI, Eiko (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(214-41, 214-42, 214-43, 214-44, 214-45, 214-46)
- 214-41** Thiophene Ring Construction via Ring Expansion of Thiiranes: Synthesis of Thienoheteroles (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) FUCHIBE, Kohei; ○MUKOHARA, Ibuki; HACHINOHE, Kosei; YAMADA, Atsushi; ICHIKAWA, Junji
- 214-42** Hetero-type benzannulation leading to substituted benzothiophenes: application to three types of cross-coupling reactions (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KONO, Taro; SASAKI, Ryosuke; GOTO, Hideki; TANABE, Yoo
- 214-43** Chlombenthiazone and benzolin-ethyl as 4-substituted 2(3*H*)-benzothiazol-2-one scaffolds: Utilization of chlorocarbonylsulfonyl chloride (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KAKUNO, Masatoshi; IZAWA, Shotaro; TAKEMOTO, Taichi; TANABE, Yoo
- 214-44** Synthesis of 4-Chromones through the Palladium-Catalyzed Dehydrogenation of *o*-Hydroxypropiophenone derivatives (Sch. Eng., TUT) ○TAKENOSHITA, Mizuki; UENO, Satoshi
- 214-45** Synthesis of 4-Quinolones from *o*-Fluoropropiophenones and Primary Amines through the Palladium-Catalyzed Dehydrogenation (Sch. Eng., TUT) ○AKAGAWA, Yuto; UENO, Satoshi
- 214-46** Development of Aza-APEX Reaction toward Efficient Synthesis of Nitrogen-doped Nanographenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○KAWAHARA, Kou; MATSUOKA, Wataru; ITO, Hideto; ITAMI, Kenichiro

Chair: UENO, Satoshi (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(214-48, 214-49, 214-50, 214-52)
- 214-48*** Rhodium(III)-Catalyzed Oxidative Coupling of Isoxazolyl-4-carboxylic acids with Alkynes: Oxidants Control the Formation of Pyranoisoxazolones and Isoquinolines (Lab. Chem. Life Sci., Tokyo Tech.) ○SOMARAJU, Yugandar; NAKAMURA, Hiroyuki
- 214-49** One-pot Synthesis of 3-Hydroxy-4-substituted-picolinonitriles from 4-Propargylaminoisoxazoles via Isoxazolopyridine Formation/N-O Bond Cleavage Sequence (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) FUKUHARA, Shintaro; SOMARAJU, Yugandar; FUSE, Shimichiro; ○NAKAMURA, Hiroyuki
- 214-50*** Photochemical Conversion of Isoxazoles to 5-Hydroxyimidazolines and Its Application for Protein Labeling (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Life Sci. Tech., Tokyo Tech.) ○MORITA, Taiki; FUSE, Shinichiro; NAKAMURA, Hiroyuki
- 214-52** Synthesis of fluorenone derivatives by Rh-catalyzed cyclization of diazonaphthoquinones (Grad. Sch. Eng., KIT) ○SHIMOOKA, Hirokazu; MAEDA, Keitarou; KAMACHI, Kento; OTHMAN, Dina I. A.; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

Monday, March 18, AM

Chair: YAMAMOTO, Takeshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(314-01, 314-02, 314-03, 314-04, 314-05, 314-06)
- 314-01*** Thiolate-Initiated Synthesis of Dibenzothiophenes from 2,2'-Bis(methylthio)-1,1'-Biphenyl via the Cleavage of Two Carbon-Sulfur Bonds (Grad. Sch. Eng., Osaka Univ.) ○MASUYA, Yoshihiro; KAWASHIMA, Yuki; CHATANI, Naoto; TOBISU, Mamoru
- 314-02*** N-Heterocyclic Carbene-Catalyzed Nucleophilic Aromatic Substitution by α, β -Unsaturated Carbonyl Compounds via Umpolung (Grad. Sch. Eng., Osaka Univ.) ○YASUI, Kosuke; KAMITANI, Miharu; TOBISU, Mamoru
- 314-03** Synthesis of 3-Allyl Indole Derivatives Using Palladium Catalyst with P,Olefin Type Ligand. (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○KASANO, Shohei; MASUDA, Chihiro; WATANABE, Kohei; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 314-04** Synthesis of Benzoxazoles via a Copper-Catalyzed Hydroamination of Alkynes with 2-Aminophenols (Coll. Hum. Sci., Nihon Univ.; Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○OSHIMOTO, Kohei; TSUJI, Hiroaki; KAWATSURA, Motoi
- 314-05** Synthesis of Pinpoint-Fluorinated Naphthothiophenes via Electrophilic Cyclization of Fluoroalkenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TSUDA, Nobushige; FUCHIBE, Kohei; ICHIKAWA, Junji
- 314-06** An attempt of porphyrin synthesis on anionic nanosheet surface (Grad. Sch. Urban Envr. Sci., TMU) ○ARAKAWA, Kyosuke; EGUTI,

Miharu; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke

Chair: MUTOH, Yuichiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(314-08, 314-10, 314-11, 314-12, 314-13)
- 314-08*** Development of synthetic reaction using silylated exo-bismethylene cycles for the construction of condensed cyclic compounds (Research and Development Initiative, Chuo Univ.) ○MINAMI, Yasunori; FURUYA, Yuki; SAKAI, Megumi; HIYAMA, Tamejiro
- 314-10** Optical Properties of π -Expanded Rhodamine Dyes in Ionic Liquids (Grad. Sch. Eng., Oita Univ.) ○ENOKI, Shinji; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 314-11** The synthesis of novel metal complexes having a planar chiral pincer ligand of dipyritylbenzene skeleton (Sch. Advanced Sci. Eng., Waseda Univ.) YAMAGUCHI, Daisuke; ○WATANABE, Itsuki; KANOMATA, Nobuhiro
- 314-12** Synthesis and optical resolution of planar bridged isonicotinate derivatives (Sch. Advanced Sci. Eng., Waseda Univ.) ONO, Ryutarou; ○TAGO, Yuichiro; KANOMATA, Nobuhiro
- 314-13*** Synthesis of Helically Chiral Polymer Ligand Bearing N-Heterocyclic Carbene Pendants (Grad. Sch. Eng., Kyoto Univ.) ○OGITA, Takuya; YAMAMOTO, Takeshi; SUGINOME, Michinori

Chair: TAKEDA, Youhei (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(314-15, 314-16, 314-17, 314-18, 314-19, 314-20)
- 314-15** Synthesis and structure of rigid [2]rotaxanes (Fac. Sci., TUS) ○KAWASAKI, Yusuke; IKEYATSU, Katsuhiko; MUTOH, Yuichiro; SAITO, Shinichi
- 314-16** Syntheses of Helical Dihydrodinaphthophenanthroline Derivatives (Grad. Sch. Sci., TUS) ○AOKI, Rino; YAMAZAKI, Yukari; MUTOH, Yuichiro; SAITO, Shinichi
- 314-17*** Synthesis and Properties of Mesoionic Tetrazoliumthiolate-diiodine Adduct (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MATSUKAWA, Yuta; HIRASHITA, Tsunehisa
- 314-18** Convergent and Functional-Group Tolerant Synthesis of B-Organic BODIPYs (Grad. Sch. Pharm., The Univ. of Tokyo) ○SAWAZAKI, Taka; SHIMIZU, Yusuke; OISAKI, Kounosuke; SOHMA, Youhei; KANAI, Motomu
- 314-19** Synthesis of sulfur-containing fused ring compounds using thionyl chloride as a sulfur source (Fac. Eng., Gifu Univ.) ○WADA, Ryuta; SHIBAHARA, Fumitoshi; MURAI, Toshiaki; SUZUKI, Akira
- 314-20** Synthesis and Properties of 1,5-Diaryl-2,3,6,7-naphthalenetetracarboxylic Diimide Derivatives (Fac. Sys. Eng., Wakayama Univ.) ○TOMOKUNI, Rika; OSUGA, Hideji; SAKAMOTO, Hidefumi

Monday, March 18, PM

Chair: YOKOYAMA, Soichi (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(314-28, 314-29, 314-30, 314-31)
- 314-28** Synthesis of tin(IV) chlorophyll-*a* derivatives and their physical properties (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○KAWAMOTO, Yuki; KINOSHITA, Yusuke
- 314-29** Preparation of F-ring fused products from bacteriochlorophyll-*d* analogs and their physical properties (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○DOI, Marie; TAMIAMI, Hitoshi
- 314-30** Synthesis and Stereochemical Behavior of Benzodiheterole-containing Azaoxa[6]helicenes (Fac. Adv. Sci. Tech., Kumamoto Univ.; Grad. Sch. Sci. & Tech., Kumamoto Univ.; IMCE, Kyushu Univ.) ○ARAE, Sachie; IMAZATO, Taishi; MORI, Takaaki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo
- 314-31** Synthesis, Stereochemical and Coordination Behavior of Axially Chiral Binaphthyl-linked Biisoquinoline Derivatives (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○KAWATSU, Takahiro; ARAE, Sachie; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo

Room 15

Bldg. 10 1015

Organic Chemistry -Reaction and Synthesis-
Heteroatom Compounds

Saturday, March 16, PM

Chair: NAKAHODO, Tsukasa (14 : 00~14 : 50)

- * 13:50-14:00: interval for laptop PC connection.(115-31, 115-32, 115-33, 115-34, 115-35)
- 115-31** Selective Synthesis of Unsymmetrical Diaryl Tellurides via Bimolecular Homolytic Substitution on Tellurium (Sch. Eng., Osaka Pref. Univ.) ○SATO, Fumiya; YAMAMOTO, Yuki; KODAMA, Shintaro; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya

- 115-32** Synthesis of P-stereogenic phosphonothioates based on axis-to-center chirality transfer (Fac. Eng., Gifu Univ.) OKUWABARA, Kazuma; MURAI, Toshiaki
- 115-33** Chiral primary phosphines having chiral centers adjacent to the phosphorus atom : synthesis and applications (Fac. Eng., Gifu Univ.) OWADA, Ryota; MAEKAWA, Yuuki; MURAI, Toshiaki
- 115-34** Green Oxidation from Amines to Imines Using a Salicylic Acid Derivative as an Organocatalyst and Its Application to Organic Synthesis (Grad. Sch. Eng., Osaka Pref. Univ.) OYAMAMOTO, Yuki; DONG, Chunping; UEMATSU, Akinori; KODAMA, Shintaro; UESHIMA, Michio; NOMOTO, Akihiro; OGAWA, Akiya
- 115-35** Oxidation of thiol using ionic liquid-supported diary telluride (Sch. Sci., Tokai Univ.) OSHIBUYA, Yuga; KOGUCHI, Shinichi; MIHOYA, Aya; OBA, Makoto

Chair: OSUGA, Hideji (15 : 00~15 : 50)

- * 14:50-15:00: interval for laptop PC connection.(115-37, 115-38, 115-39, 115-40, 115-41)
- 115-37** synthesis and properties of chiral selenurane dication protected Au nanoparticles (Fac. Sci. Eng., Kindai Univ.) OSHIMYOYAMANO, Tatsuya; NAKAHODO, Tsukasa; HUIJHARA, Hisashi
- 115-38** Synthesis of Selenosugar Derivatives via Cycloaddition Reaction of Selenoaldehydes with Danishefsky's Diene (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OARIMURA, Natsuki; FURUYAMA, Taniyuki; MAEDA, Hajime; SEGI, Masahito
- 115-39** Construction of Novel Six-membered Ring Selenosugar Skeletons via Cycloaddition Reaction of Selenoaldehydes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OISHIKAWA, Ryota; FURUYAMA, Taniyuki; MAEDA, Hajime; SEGI, Masahito
- 115-40** Model Study on Suppression Mechanism for Inactivation of GPx-derived Selenenic Acids by Taking Advantage of a Selenopeptide-containing Molecular Cradle (Sch. Sci., Tokyo Tech.) OMASUDA, Ryosuke; SASE, Shohei; GOTO, Kei
- 115-41** Synthesis and Reaction of a Stable Selenoketone Using 9-Triptycyl-methyl Framework (Coll. Sci., Rikkyo Univ.; ICR, Kyoto Univ.) OMURAJI, Ryoichi; YUKIMOTO, Mariko; MINOURA, Mao

Chair: MAEDA, Hajime (16 : 00~16 : 50)

- * 15:50-16:00: interval for laptop PC connection.(115-43, 115-44, 115-45, 115-47)
- 115-43** Synthesis of Biaryls from Aryl Sulfoxides and Aniline Derivatives through [3,3] Sigmatropic Rearrangement (Dep. Chem., Sch. Sci., Kyoto Univ.) OYOSHIDA, Akira; OKAMOTO, Koichi; YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki
- 115-44** Synthesis of Biaryls from Polyfluorophenols and Aryl Sulfoxides by Means of Sigmatropic Dearomatization/Defluorination Sequence (Dep. Chem., Sch. Sci., Kyoto Univ.) OKAMOTO, Koichi; NOGI, Keisuke; YORIMITSU, Hideki
- 115-45**** Selective Synthesis of Imines and α -Diimines by Palladium-Catalyzed Diarylation of Isocyanides with Tetraarylleads (Grad. Sch. Eng., Osaka Pref. Univ.; Fac. Agr., Saga Univ.) OTRAN, Chi Cong; KAWAGUCHI, Shin-ichi; TRAN, Phuc Dat; KOBIKI, Yohsuke; KODAMA, Shintaro; NOMOTO, Akihiro; OGAWA, Akiya
- 115-47** Synthesis and Properties of Tetraarylbenzo[1,2-*b*:4,3-*b'*]dithiophene Derivatives and Cyclization Reaction (Fac. Sys. Eng., Wakayama Univ.) ODEGUCHI, Haruka; OSUGA, Hideji; SAKAMOTO, Hidefumi

Chair: SASE, Shohei (17 : 00~17 : 50)

- * 16:50-17:00: interval for laptop PC connection.(115-49, 115-50, 115-51, 115-52, 115-53)
- 115-49** Synthesis and properties of α -substituted benzothiophene (Grad. Sch. Sci., Eng., Ehime Univ.) OINADA, Shoki; TANI, Hiroyuki; MORI, Shigeki; UNO, Hidemitsu
- 115-50** Synthesis of thiopyrylium salt by intramolecular Friedel-Crafts reaction of thioether (Fac. Sci., Fukuoka Univ.) OTANAKA, Rina; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 115-51** Synthesis and characterization of thiopyrylium salts containing thiophene (Fac. Sci., Fukuoka Univ.) OKITAHARA, Kana; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro
- 115-52** 2-(4-Pyridyl)-5-aminothiazoles and their Pyridine N-Oxides: Synthesis and Properties (Fac. Eng., Gifu Univ.) OTSUCHIYA, Yuki; NAKATSU, Yuta; YAMAGUCHI, Kirara; MURAI, Toshiaki
- 115-53** A Water-soluble Fluorescent Compounds Having 5-Aminothiazoles as a Core : Synthesis and Properties (Fac. Eng., Gifu Univ.) OTAKEKOSHI, Kazuma; YAMAGUCHI, Kirara; MURAI, Toshiaki

Sunday, March 17, AM

Chair: HOSHIMOTO, Yoichi (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(215-01, 215-02, 215-03, 215-04)
- 215-01** Synthesis, Structure, and Reactivity of Azaboranthracene Stabilized by N-Heterocyclic Carbene (Grad. Sch. Eng., Nagoya Univ.) OISHIKAWA, Yutarou; SUZUKI, Katsunori; YAMASHITA, Makoto
- 215-02** Radical lactonization of propargyl acetate derivatives using an N-

- heterocyclic carbene-borane (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OSHIMOI, Masaki; MAEDA, Katsuhiko; CURRAN, Dennis; TANIGUCHI, Tsuyoshi
- 215-03** Synthesis of perfluorodihydroboraanthracenes (Grad. Sch. Eng., Hiroshima Univ.) ONAKASHIMA, Tomoya; TANAKA, Ryo; NAKAYAMA, Yuushou; SHIONO, Takeshi
- 215-04**** Site-selective modification of polyol derivatives with organoboron catalyst (RIKEN CSRS) OKUSANO, Shuhei; HAGIHARA, Shinya

Chair: SUZUKI, Katsunori (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(215-07, 215-09, 215-11)
- 215-07*** Mechanistic Investigation of Organoborane-Catalyzed Hydrogenation of Aldehydes with a Hantzsch Ester (LCCMS, IMS; Sch. Physical Sci., SOKENDAI; JST-ACCEL) OHAMASAKA, Go; TSUJI, Hiroaki; EHARA, Masahiro; UOZUMI, Yasuhiro
- 215-09**** Hydrogen Purification Based on Catalytic Hydrogenation/Dehydrogenation of N-Heteroaromatics Mediated by Frustrated Lewis Pairs (Grad. Sch. Eng., Osaka Univ.) OASADA, Takahiro; HOSHIMOTO, Yoichi; OGOSHI, Sensuke
- 215-11** Hydrogenation of Carbonyl Compounds Catalyzed by Frustrated Lewis Pairs under Miscellaneous Gas Conditions (Grad. Sch. Eng., Osaka Univ.) OSAKURABA, Mahiro; HOSHIMOTO, Yoichi; OGOSHI, Sensuke

Chair: UCHIYAMA, Yosuke (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(215-13, 215-14, 215-15, 215-16, 215-17)
- 215-13** Synthesis and Properties of Cyclic Oligomers of Dibenzobarrelene-Incorporated 1,4-Di(2-thienyl)-1-thio-1,3-butadiene Derivative (Grad. Sch. Sci., Eng., Saitama Univ.) OMURAKAMI, Natsuki; NAKATA, Norio; ISHII, Akihiko
- 215-14** Novel ($\sigma + \pi$) Double Aromatic Compound: Synthesis and Properties of 2,3,5,6-Tetraselenyl-1,4-ditellanyl Benzene Dication (Grad. Sch. Sci., Eng., Saitama Univ.) OWATANABE, Airo; FURUKAWA, Shunsuke; SAITO, Masaichi
- 215-15** Preparation and Optical Properties of α -Alkoxy-Phthalocyanine Derivatives with Pyridylthio Groups (Center for Regional Collaboration in Research and Education, Iwate Univ.) OKUDO, Chiko; KIMURA, Takeshi
- 215-16** Preparation and Reactivity of Benzodichalcogenete Derivatives (#Organization for Research Promotion, Iwate Univ.) OKIMURA, Takeshi
- 215-17** Synthesis and Properties of Chalcogen-centered Heteroallenes (Coll. Sci., Rikkyo Univ.) OURAO, Yukiko; SUGAMATA, Koh; MINOURA, Mao

Sunday, March 17, PM

Chair: NAGAHORA, Noriyoshi (13 : 00~13 : 50)

- * 12:50-13:00: interval for laptop PC connection.(215-25, 215-26, 215-27, 215-28, 215-29)
- 215-25** Synthesis of DBTTF Utilizing an Indium-Catalyzed Reductive Dithioacetalization of Carboxylic Acid (Fac. Sci. Technol., TUS) OMINATO, Kohei; OGIWARA, Yohei; SAKAI, Norio
- 215-26** Synthesis of alkylamino haloborane and its reduction (Grad. Sch. Eng., Nagoya Univ.) OKISU, Haruki; KOSAI, Tomoyuki; IWAMOTO, Takeaki; YAMASHITA, Makoto
- 215-27** Synthesis, Structure and Characterization of Tetrathienylethylene Derivatives Functionalized with Aryl Groups (Fac. of Sci. and Engin., Iwate Univ.) OKUBO, Akihiro; MURAOKA, Hiroki; OGAWA, Satoshi
- 215-28** Synthesis and characterization of aryl-functionalized 2,4-bis(dimethylamino)-6-(3-hydroxy-2-thienyl)-1,3,5-triazines and their methoxy analogues (Fac. of Sci. and Engin., Iwate Univ.) OTAGUCHI, Yusuke; MURAOKA, Hiroki; OGAWA, Satoshi
- 215-29** Synthesis, Structure, and Reactivity of N-Substituted Amidinoimidazoles (Sch. Sci., Kitasato Univ.) OYASUDA, Yu; KIMURA, Shinobu; KUROTAKI, Takanori; SAWAMURA, Yukihiko; KIKUCHI, Yuichi; ABE, Shinya; UCHIYAMA, Yosuke; RUNYON, Jason; DOLPHIN, Joshua; SCHINNEN, Christoph; ARDUENGO, Anthony

Chair: TSURUGI, Hayato (14 : 00~14 : 50)

- * 13:50-14:00: interval for laptop PC connection.(215-31, 215-32, 215-33, 215-34)
- 215-31** Synthesis and Characterization of Silole-cored Star-shaped Molecules with Aryl-functionalized Thiophene Side Arms (Faculty of Science and Engineering, Iwate University) OKUBOTA, Raiya; MURAOKA, Hiroki; OGAWA, Satoshi
- 215-32** Synthetic Studies of Novel Low-coordinated Heavier Main Group Element Compounds Having Anionic Substituents (ICR, Kyoto Univ.) OIWAI, Kento; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 215-33** Reactions of a Stable Tetraalkylidgermene Bearing Triptycyl Framework (Coll. Sci., Rikkyo Univ.; ICR, Kyoto Univ.) OGOTO, Ryohei; YUKIMOTO, Mariko; MINOURA, Mao
- 215-34**** Synthesis and Reaction of Stable Germanium-Group 16 Elements Double Bond Compounds (Coll. Sci., Rikkyo Univ.) OSUZUKI, Fumiaki; MINOURA, Mao

Chair: HAMASAKA, Go (15 : 00~15 : 50)

* 14:50-15:00: interval for laptop PC connection.(215-37, 215-38, 215-39, 215-40, 215-41)

215-37 Reduction of Nitro Compounds with Diboron Derivatives Catalyzed by Nitrogen-containing Aromatic Compounds (Grad. Sch. Eng. Sci., Osaka Univ.) ○HOSOYA, Hiromu; MISAL CASTRO, Luis Carlos; TSURUGI, Hayato; MASHIMA, Kazushi

215-38 Synthesis of Hypervalent Iodine Reagents Bearing a Cationic Nitrogen-containing Heterocyclic Moiety and Utilization in Regioselective Oxidative Cyclization of 2-Vinylbenzoic Acids (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○FUJIE, Masaki; YASUDA, Makoto

215-39 Oxidative rearrangement of primary amine using hypervalent iodine reagent (Grad. Sch. Pharm. Sci., Osaka Univ.) ○YAMAKOSHI, Wataru; ARISAWA, Mitsuhiro; MURAI, Kenichi

215-40 Halogen-Bonding-Donor-Catalyzed Silylcyanation of Aldehydes (Fac. Sci. Eng., Chuo Univ.) ○TORITA, Koki; HARAGUCHI, Ryojuku; FUKUZAWA, Shin-ichi

215-41 Development of oxidative Heck type reaction using iodine as an active species (Gifu Pharm. Univ.) ○GOTO, Mayuki; MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

Chair: HARAGUCHI, Ryojuku (16 : 00~16 : 40)

* 15:50-16:00: interval for laptop PC connection.(215-43, 215-44, 215-45, 215-46)

215-43 The reaction of 2-bromocarbonyls and alcohols for the synthesis of congested ethers and mechanistic insights (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TAKEUCHI, Kentaro; SHIMOHARAI, Yusuke; NISHIKATA, Takashi

215-44 Synthesis and Properties of Chiral Benzothiadiazole Derivatives (Grad. Sch. Sci. Eng., Kindai Univ.) ○ISHII, Arisa; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

215-45 Preparation and circularly polarized luminescence of new chiral copper complexes (Grad. Sch. Sci. Eng., Kindai Univ.) ○KAJIWARA, Yuu; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

215-46 Structural analysis of heterocyclic regioisomers by the crystalline sponge method (Grad. Sch. Eng., The Univ. of Tokyo; IMS) ○NAGAE, Kei; DUBEY, Ritesh; FUJITA, Makoto

Chair: SUGAMATA, Koh (16 : 50~17 : 30)

* 16:40-16:50: interval for laptop PC connection.(215-48, 215-49, 215-50, 215-51)

215-48 [3+2] Cycloaddition of 1,1-Difluoroallenes with Aldehydes: Synthesis of Fluorine-Substituted Dihydrofurans (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) FUCHIBE, Kohei; ○FUJIKI, Yusuke; SAKON, Kazuki; SUTO, Kyosuke; ICHIKAWA, Junji

215-49 Development of Regioselective C-H Trifluoromethylthiolation of 6-Membered Heteroaromatic Compounds (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○MUTA, Ryuhei; TORIGOE, Takeru; KUNINOBU, Yoichiro

215-50 Synthesis, Structure and Photophysical Properties of Imidazo[1,5-a]pyridine Derivatives having Various Sulfanyl Groups (Coll. Eng., Chubu Univ.) ○ITO, Masaya; OHARADA, Mayumi; SAKAMOTO, Koki; SAKAGUCHI, Shota; NIYOMURA, Osamu

215-51 Synthesis of Novel Glucose Conjugated Chlorin Derivatives for Tumor Selective Photodynamic Therapy (Grad. Sch. Eng., Osaka Pref. Univ.) ○YAMAGUCHI, Hiroaki; NOMOTO, Akihiro; YANO, Shigenobu; OGAWA, Akiya

Monday, March 18, AM

Chair: MURAOKA, Hiroki (9 : 00 ~9 : 50)

* 8:50-9:00: interval for laptop PC connection.(315-01, 315-02, 315-03, 315-04, 315-05)

315-01 Synthesis and Circularly Polarized Luminescence of Chiral Phenanthroline-Lanthanide Complexes (Grad. Sch. Sci. Eng., Kindai Univ.) ○YAMAMOTO, Chifuyu; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

315-02 Reaction of Boryl- and Amino-Substituted Acetylene toward Organoboranes (Sch. Eng., Nagoya Univ.) ○KOBAYASHI, Akemi; KITAMURA, Ryo; SUZUKI, Katsunori; YAMASHITA, Makoto

315-03 Enantioselective N-Acylnitrene Transfer Reaction: Ruthenium-Catalyzed Sulfimidation (Grad. Sch. Sci., Kyushu Univ.; Fac. Arts and Sci., Kyushu Univ.; I₂CNER, Kyushu Univ.) ○YOSHITAKE, Masaki; HAYASHI, Hiroki; UCHIDA, Tatsuya

315-04 Synthetic studies of novel cyclic alkenyl(amino)carbene (Grad. Sch. Sci., Eng., Saitama Univ.) ○TANAKA, Masaru; NAKATA, Norio; ISHII, Akihiko

315-05 Synthesis and properties of new calix selenides (Grad. Sch. Sci. Eng., Kindai Univ.) ○KARIYA, Hidetoshi; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

Chair: NAKATA, Norio (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(315-07, 315-08, 315-09, 315-10, 315-11)

315-07[#] Development of Novel Photoswitchable Chiral Catalyst (ISIR, Osaka Univ.) ○KONDO, Masaru; NAKAMURA, Kento; SASAI, Hiroaki

315-08[#] Development of Novel Photoswitchable Chiral Oxazoline Catalyst (ISIR, Osaka Univ.) ○NAKAMURA, Kento; KONDO, Masaru; SASAI, Hiroaki

315-09 Synthesis of New Light Emissive Copper Complex (Grad. Sch. Sci. Eng., Kindai Univ.) ○KANEGAE, Sakura; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

315-10 Synthesis and properties of linear- and star-shaped D-π-A molecules with a pyrazine core (Faculty of Science and Engineering, Iwate University) ○IWABUCHI, Naoki; MURAOKA, Hiroki; OGAWA, Satoshi

315-11 Enantioselective construction of optically active decahydroquinoline scaffold via trienamine intermediate (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○INOSHITA, Taichi; GOSHI, Kei; ISHIKAWA, Hayato

Chair: FURUKAWA, Shunsuke (11 : 00~11 : 50)

* 10:50-11:00: interval for laptop PC connection.(315-13, 315-14, 315-15, 315-16, 315-17)

315-13 Catalytic aromatic amination from acetyl arenes (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○HASEGAWA, Genna; MAKI, Hiroya; HYODO, Kengo; UCHIDA, Kingo

315-14 Synthesis of Multi-substituted Pyridine Derivatives via [4+2]-Cycloaddition of Terminal Alkynes and Cyclic Azadienes (Engineering Science School, Osaka University) ○MATSUNO, Minami; UEDA, Yohei; TSURUGI, Hayato; MASHIMA, Kazushi

315-15 Syntheses and structures of gold(I) chloride complexes based on bidentate organoarsenic ligands. (KIT) ○KOBAYASHI, Ryojuku; FUJI, Toshiki; IMOTO, Hiroaki; NAKA, Kensuke

315-16 Cycloaddition Reactions of Kinetically-Stabilized Dialkylidipnictene (Coll. Sci., Rikkyo Univ.) ○NISHINO, Ryohei; MINOURA, Mao

315-17 Cyclopropanation of Allyl Phosphates with Lithium Phosphides (Grad. Sch. Eng. Sci., Osaka Univ.) ○OOZONO, Ayase; SHIROTA, Ketaro; SHINTANI, Ryo

Monday, March 18, PM

Chair: IMOTO, Hiroaki (13 : 00~13 : 50)

* 12:50-13:00: interval for laptop PC connection.(315-25, 315-26, 315-27, 315-28, 315-29)

315-25 Development of the new synthetic methodology for the preparation of compounds containing phosphate esters (Grad. Sch. Eng., KIT) ○TSUBAKI, Kota; SHIMOOKA, Hirokazu; KITAMURA, Mitsuru; OKAUCHI, Tatsuo

315-26[#] Synthesis of 4-Cyano-1-phosphabicyclo[2.2.2]octane and its Metal Complexes (Fac. Sci., Hokkaido Univ.) ○KIM, Yongjoon; IWAI, Tomohiro; SAWAMURA, Masaya

315-27 Synthesis of a Hollow-Shaped Caged Triarylphosphine and its Metal Complexes (Fac. Sci., Hokkaido Univ.) ○GOTO, Yuto; IWAI, Tomohiro; SAWAMURA, Masaya

315-28 Bicyclic stannolane synthesis using N-propargylmethacrylamide derivatives (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NISSWA, Ryo; KAWAMOTO, Takuji; KAMIMURA, Akio

315-29[#] Water Determines the Selectivity: Facile Room Temperature C-O Cleavage of P(III) Esters by Brønsted Acids Leading to Mild and Efficient Halide-Free Michaelis-Arbuzov Rearrangement (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; IRC3, AIST) LI, Chunyu; ○HAN, Li-biao

Chair: SATO, Soichi (14 : 00~14 : 40)

* 13:50-14:00: interval for laptop PC connection.(315-31, 315-32, 315-34)

315-31 Synthesis of Benzophospholes via Phosphenium Cations (Grad. Sch. Eng., Osaka Univ.) ○NISHIMURA, Kazutoshi; UNOH, Yuto; HIRANO, Koji; MIURA, Masahiro

315-32[#] Synthesis and Reactivity of Novel Phosphinoalumanes (ICR, Kyoto Univ.) ○YANAGISAWA, Tatsuya; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

315-34 Synthesis, Structure and Properties of Bi(bismabenzene) (Grad. Sch. Eng., Nagoya Univ.) ○NAMBA, Yasuho; ISHII, Takuya; SUZUKI, Katsunori; YAMASHITA, Makoto

Chair: KAWAMOTO, Takuji (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(315-49, 315-50, 315-51, 315-52, 315-53)

315-49 Synthesis and Properties of a Compound Having Phosphorus and Arsenic in a Same Molecule (KIT) ○AKIOKA, Ippei; URUSHIZAKI, Aya; IMOTO, Hiroaki; NAKA, Kensuke

315-50 Synthesis and Structural Determination of Chalcogenonium Salts having piq Ligands (Fac. Sci., TMU) ○ITO, Daichi; TAKEUCHI, Yosuke; SAKABE, Masato; SATO, Soichi

315-51 Reactivity of diborane(4) dianion (Grad. Sch. Eng., Nagoya Univ.) ○AKIYAMA, Seiji; YAMASHITA, Makoto

315-52 Investigation of Sugar Conjugation Reaction with Chlorin e6 Ester (Sch. Eng., Osaka Pref. Univ.) ○MASUDA, Masato; NOMOTO, Akihiro; YANO, Shigenobu; OGAWA, Akiya

315-53 Oxidation Reactions of Pseudo-hexacoordinated Bismuthine having three ppy Ligands (Grad. Sch. Sci., TMU) ○SAKABE, Masato; SATO, Soichi

Chair: MINOURA, Mao (18 : 00~18 : 40)

- * 17:50-18:00: interval for laptop PC connection.(315-55, 315-56, 315-57, 315-58)
- 315-55** Synthesis and Luminescent Properties of Benzoarsoles (KIT)
○ISHIJIMA, Kosuke; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke
- 315-56** Synthesis and structure of dianionic bi(aluminabenzene) (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Sci. Eng., Chuo Univ.) ○KUNO, Masaki; SUZUKI, Katsunori; NAKAMURA, Taichi; YAMASHITA, Makoto
- 315-57** Generation of a 5H-Dibenzogermole-5-ylidene Derivative and its Trapping Reactions. (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○NORO, Kohsuke; SASAMORI, Takahiro
- 315-58** Development of environmentally benign oxidation process for synthesis of triarylmethane dyes (Sch. Eng., Osaka Pref. Univ.) ○OKADA, Tomoya; NOMOTO, Akihiro; YAMAMOTO, Mika; YAMAMOTO, Yuki; UESHIMA, Michio; OGAWA, Akiya

Room I6

Bldg. 10 1021

Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

Saturday, March 16, PM

Chair: SHIMIZU, Akihiro (13 : 20~14 : 10)

- * 13:10-13:20: interval for laptop PC connection.(116-27, 116-28, 116-29, 116-30)
- 116-27** Direct Amination of Aromatics with Aminopyridinium Derivatives by Photoredox Catalysis (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OCHI, Rika; MIYAZAWA, Kazuki; KOIKE, Takashi; AKITA, Munetaka
- 116-28** Synthesis of Phenanthridines from *N*-Iminylpyridinium salts by photoredox catalysis (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MATSUSHITA, Yuki; OCHI, Rika; TANAKA, Yuya; KOIKE, Takashi; AKITA, Munetaka
- 116-29** Development of photocatalytic C-H amination of arenes by using thermodynamically disfavored electron transfer (Grad. Sch. Sci., The Univ. of Tokyo; Fac. Sci., Gakushuin Univ.) ○IKARASHI, Gun; MOROFUJI, Tatsuya; KANO, Naokazu
- 116-30**[#] Homo to luno cataysis reversal in enamine C-H activation coupled reactions (ICTM institute, Ctr. for Chem., Univ. of Belgrade) ○BONDZIC, Bojan; DZAMBASKI, Zdravko

Chair: NOKAMI, Toshiki (14 : 20~15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(116-33, 116-34, 116-35, 116-36)
- 116-33**[#] Cross-coupling of Arenediazonium Salts and Arenes Using Phenylene-diamine Derivatives as a Redox Catalyst (Grad. Sch. Eng., Osaka Univ.) ○HATA, Dai; TOBISU, Mamoru; AMAYA, Toru
- 116-34** Hole Oxidation Triggered Radical Cation Diels-Alder Reaction (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAKAYAMA, Kaii; MAETA, Naoya; KAMIYA, Hidehiro; OKADA, Yohei
- 116-35** Uncovering the Effect of Anions and Fluorinated Alcohol in Hole Catalysis (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○NAGAHARA, Shingo; SHIDA, Naoki; IMADA, Yasushi; OKADA, Yohei; CHIBA, Kazuhiro
- 116-36**[#] Probing Intramolecular Electron Transfer in Redox Tag Processes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKADA, Yohei; MAETA, Naoya; NAKAYAMA, Kaii; KAMIYA, Hidehiro

Chair: INAGI, Shinsuke (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(116-39, 116-40, 116-41, 116-42, 116-43)
- 116-39** Total synthesis of α -conotoxin via protecting group-selective disulfide bond formation by anodic oxidation (Tokyo Univ. of Agri. and Technol.) ○TERADAIRA, Yuya; OKADA, Yohei; CHIBA, Kazuhiro
- 116-40** Synthesis of cyclic oligosaccharides based on the automated electrochemical assembly (Dept. Sustainable Science, Tottori Univ.) ○YAMAMOTO, Takashi; TANABE, Shitidai; MANMODE, Sujit; NOKAMI, Toshiki; ITOU, Toshiyuki
- 116-41** Generation of Organic Active Sulfur Compounds Using Electrochemical Flow Reactors (Grad. Sch. Eng., Kyoto Univ.) ○TAKUMI, Masahiro; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro
- 116-42** Preparation and electrochemical behavior of the graphite electrodes modified with the polyacrylamides bearing aminoacid side chains (Grad. Sch. Sci. Eng., Kindai Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) ○SUGINO, Yuri; ISHIFUNE, Manabu
- 116-43** Electroreductive synthesis of polycarbosilane and polysilane containing fluorene units (Grad. Sch. Sci. Eng., Kindai Univ.) ○TAKAHASHI, Akane; ISHIFUNE, Manabu

Chair: MATSUMOTO, Kouichi (16 : 20~17 : 10)

- * 16:10-16:20: interval for laptop PC connection.(116-45, 116-46, 116-47, 116-48, 116-49)
- 116-45** Highly effective anodic halogenation of polythiophene derivatives by use of Lewis acid additives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KURIOKA, Tomoyuki; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuoyoshi; INAGI, Shinsuke
- 116-46**[#] Perpendicular growth of poly(3,4-ethylenedioxythiophene) fiber array by bipolar electrolysis (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ZHOU, Yaqian; KOIZUMI, Yuki; WATANABE, Tempei; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuoyoshi; INAGI, Shinsuke
- 116-47** Mg-promoted reductive coupling reactions of acrylic acid ester and aromatic hydrocarbons with a leaving group at the alkene position (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○MATSUO, Koya; ZHANG, Tianyuan; MAEKAWA, Hirofumi
- 116-48** Mg-Promoted Reductive Coupling Reactions of Methyl Acrylate and Ethyl Cinnamate with a Leaving Group at the β -Position of Ester (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○TANAKA, Hisashi; ZHANG, Tianyuan; MAEKAWA, Hirofumi
- 116-49** Mg-promoted Reductive Silylation of Methyl 1-Benzofuran-2-carboxylates (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○ZHENG, Suhua; ZHANG, Tianyuan; MAEKAWA, Hirofumi

Chair: OKADA, Yohei (17 : 20~18 : 10)

- * 17:10-17:20: interval for laptop PC connection.(116-51, 116-52, 116-53, 116-54, 116-55)
- 116-51** Electrochemical Carboxylation Following Radical Cyclization of Ketyl Radical Generated by Electrochemical Reduction (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○TAKAKUWA, Mayu; SENBOKU, Hisanori
- 116-52** Paired Electrosynthesis of β -Nitroalcohols Using Quaternary Phosphonium Salts (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○YOKOYAMA, Tomohiro; HASEGAWA, Ruka; TAJIMA, Toshiki
- 116-53** Synthesis of Strong Organic Base-3HF Complexes and Their Application to Anodic Fluorination (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○SANTA, Kaito; AOKI, Tsubasa; TAJIMA, Toshiki
- 116-54** gem-Difluorination of Carbon-Carbon Triple Bonds Using Brønsted acid and Bu₄NBF₄ (Fac. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○YAMAGUCHI, Mizuki; KASHIMURA, Shigenori
- 116-55** Prins Cyclizations Using Acylsilanes for Syntheses of Silyl-Containing Compounds (Fac. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○KURIYAMA, Kaho; YANAGI, Rina; KASHIMURA, Shigenori

Sunday, March 17, AM

Chair: MITSUDO, Koichi (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(216-01, 216-02, 216-03, 216-04, 216-05, 216-06)
- 216-01** Synthesis and properties of π -conjugated zwitterion with small solvent effects (Grad. Sch. Eng. Sci., Osaka Univ.) ○ISHIZAKI, Yu; SHIMIZU, Akihiro; SHINTANI, Ryo
- 216-02** Synthesis and properties of π -conjugated zwitterion having azaphenylene moiety (Grad. Sch. Eng. Sci., Osaka Univ.) ○ARIKAWA, Shinobu; SHIMIZU, Akihiro; SHINTANI, Ryo
- 216-03** Development of an Anthracene-BODIPY-Type Fluorescent Sensor for Water Based on PET (Photo-induced Electron Transfer) and FRET (Fluorescence Resonance Energy Transfer) (Grad. Sch. Eng., Hiroshima Univ.) ○JIMBO, Daisuke; IMAE, Ichiro; OYAMA, Yousuke
- 216-04** Development of PET-AIE Type Fluorescence Sensor for Detection of Water in Low and High Water Content Region (Fac. Eng., Hiroshima Univ.) ○MISE, Yuta; IMAE, Ichiro; OYAMA, Yousuke
- 216-05** Innovation of New Luciferin analogues for in vivo optical imaging (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SAITO, Ryohei; KITADA, Nobuo; HIRANO, Takashi; MAKI, Shojiro
- 216-06** Oxygen Reduction Reaction Properties of the Carbonized Materials Based on the Controlled Synthesis of Fe-Polyaniline (Fac. Mater. Sci. and Eng., KIT; ISIR, Osaka Univ.; DAIHACHI CHEM., IND. CO., LTD.; CRM, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.; KFTRAL, KANEKA CORP.) ○INADA, Yuh; DAO, Quang-duy; DAIJO, Masato; HANEOKA, Hitoshi; MURAKAMI, Yosuke; EGUCHI, Nao; AMAYA, Toru; SUZUKI, Takeyuki; TSUJI, Ryotaro; HIRAO, Toshikazu

Chair: SHIMIZU, Akihiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(216-08, 216-09, 216-10, 216-11, 216-12, 216-13)
- 216-08** Synthesis of Benzotrithiophene Derivatives and Evaluation of Physical Properties (Fac. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○YAMASHITA, Kazuhiro; FUKUDA, Sanshiro; OKUBO, Takashi; TANAKA, Senku; KASHIMURA, Shigenori
- 216-09** Synthesis of Ethene-Bridged Terthiophene Oxides and Evaluation of Their Electrochemical Properties (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TAKABATAKE, Masatoshi; MITSUDO, Koichi; SUGA, Seiji
- 216-10** Synthesis of Thienoacenes via Electro-oxidative Dehydrogenative Cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○YONEZAWA, Toki; MITSUDO, Koichi; SUGA, Seiji

Room 17

Bldg. 10 1022

Organic Crystals

Sunday, March 17, PM

Structure and Property

Chair: TOMINAGA, Masahide (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(217-25, 217-26, 217-27, 217-29, 217-30)

217-25 Construction and functionalization of porous organic salts composed of tetrasulfonic acids with porphyrin skeleton and bulky amines. (Grad. Sch. Eng., Osaka Univ.) ○TSUCHIYA, Keiho; TOHNAI, Norimitsu**217-26** Post-synthetic modification of MOF with hydroxy groups (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ANAN, Shizuka; KOKADO, Kenta; SADA, Kazuki**217-27[#]** Acid-responsive Porous Hydrogen-bonded Organic Framework (RIES, Hokkaido Univ.; Sch. Eng., Osaka Univ.; Univ. of Castilla-La Mancha) ○HISAKI, Ichiro; SUZUKI, Yuto; GOMEZ, Eduardo; JI, Qin; TOHNAI, Norimitsu; NAKAMURA, Takayoshi; DOUHAL, Abderrazzak**217-29** Anisotropic expansion of the crystalline nano-channel of a porous molecular crystal driven by guest recognition (Grad. Sch. Sci., The Univ. of Tokyo) ○ASAKURA, Masahiro; MITSUI, Shinya; TASHIRO, Shohei; SHIONOYA, Mitsuhiro**217-30** Cyclization of Natural Terpenoids Utilizing Nano-Channel of a Porous Metal-Macrocyclic Framework (Grad. Sch. Sci., The Univ. of Tokyo) ○HAYASHI, Ryunosuke; LIN, Yingjie; TASHIRO, Shohei; SHIONOYA, Mitsuhiro

Chair: HISAKI, Ichiro (14 : 10~15 : 00)

* 14:00-14:10: interval for laptop PC connection.(217-32, 217-33, 217-35, 217-36)

217-32 Cycloalkanes and cycloalkenes inclusion crystals by a functionalized acyclic V-shaped host molecule (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○KAWAHATA, Masatoshi; HYODO, Tadashi; HIKAMI, Yuya; KOMATSU, Ai; TOMINAGA, Masahide; YAMAGUCHI, Kentaro**217-33^{*}** Diverse crystal structures, solvent sorption and thermosensitive effect of tetrathienylene tetracarboxylic acid derivatives (IMRAM, Tohoku Univ.; Grad. Sch. Eng., Tohoku Univ.) ○TAKEDA, Takashi; OZAWA, Masataka; AKUTAGAWA, Tomoyuki**217-35[#]** Development of purpose-specific crystalline sponge through the integration of functionalized cartridge (Grad. Sch. Eng., The Univ. of Tokyo) ○UTJAPIMUK, Soravit; YAN, Kaking; DUBEY, Ritesh; KIKUCHI, Takashi; FUJITA, Makoto**217-36** Synthesis, Crystal Structure, and Gas Adsorption Behavior of Cysteinylglycine Derivative (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○YAMANAKA, Kazuaki; TAKAHASHI, Hiroki; TSUE, Hirohito

Dynamic and Mechanical Behavior

Chair: MUTAI, Toshiki (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(217-38, 217-39, 217-40, 217-42, 217-43)

217-38[#] Thermal phase transition of a photochromic salicylideneaniline crystal (Sch. Advanced Sci. Eng., Waseda Univ.) ○HAGIWARA, Yuki; TANIGUCHI, Takuya; ASAH, Toru; KOSHIMA, Hideko**217-39** Synthesis and chromic characteristics of metal complex crystals with salicylideneaniline derivative as ligands (Sch. Sci., Tokyo Tech.) ○ISHIMOTO, Yurie; SUGIYAMA, Haruki; SEKINE, Akiko; UEKUSA, Hidehiro**217-40[#]** Photo-triggered phase transition of a photochromic crystal (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TANIGUCHI, Takuya; SATO, Hiroyasu; HAGIWARA, Yuki; ASAH, Toru; KOSHIMA, Hideko**217-42[#]** Similarity in polymorphic occurrence and crystal structure of a chlorinated and a brominated diketopyrrolopyrrole dyes with propyl group on amino positions (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○SO, Heesoo; KAWAGUCHI, Junna; OSUMI, Shigeto; MATSUMOTO, Shinya**217-43** Crystalline polymorphism and pseudopolymorphism of diketopyrrolopyrrole derivatives with propyl group on amino position (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.; Technical Division, Tokyo Printing Ink) KAWAGUCHI, Junna; TODA, Akehiro; IMAI, Kengo; SEKINE, Toshinari; ○MATSUMOTO, Shinya

Chair: MATSUMOTO, Shinya (16 : 20~17 : 20)

* 16:10-16:20: interval for laptop PC connection.(217-45, 217-46, 217-47, 217-48, 217-49, 217-50)

217-45 Dehydration Transformation Mechanism of Methylene blue Hydrochloride Dihydrate Crystal (Sch. Sci., Tokyo Tech.) ○MORIGUCHI,**216-11** Efficient One-pot Synthesis of 3-Thienyl Thioethers (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HABARA, Nanae; MITSUDO, Koichi; SUGA, Seiji**216-12** Development of New Synthetic Methods for Fulvenes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KURIMOTO, Yuiji; MITSUDO, Koichi; SUGA, Seiji**216-13** Development of quinone ammonium salts for organic negative electrode material (Grad. Sch. Eng., Tottori Univ.) ITOH, Toshiyuki; NOKAMI, Toshiaki; KOMURA, Takuro; ○MATSUMOTO, Ryo

Chair: OYAMA, Yousuke (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(216-15, 216-16, 216-17, 216-18, 216-19)

216-15 Electrochemical assembly of pillar[6]arene with controlling the shape of the cylindrical structures (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIROHATA, Tomoki; TSUNEISHI, Chiaki; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; OGOSHI, Tomoki; INAGI, Shinsuke**216-16** Electrocatalytic Oxidation of Cyclohexene Using a PEM Reactor with Gold Nanoparticle Catalysts (Sch. Eng., Yokohama Natl. Univ.) ○IDO, Yuto; SHIMIZU, Yutaro; MINOSHIMA, Juri; FUKAZAWA, Atsushi; TANAKA, Kenta; ATOBE, Mahito**216-17** Highly Efficient Electrooxidation of Benzyl Alcohol in a Flow Electrolytic Column Cell Modified with TEMPO Mediator (Sch. Eng., Yokohama Natl. Univ.) ○SUGA, Tatsuya; TANAKA, Kenta; ATOBE, Mahito**216-18** A Flow Microreactor Approach to Diels-Alder Reaction with Electrogenated o-Quinone (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○TANAKA, Kenta; YOSHIZAWA, Hirona; ATOBE, Mahito**216-19** Synthesis and molecular weight control of poly(para-phenylene) using electro-oxidative polymerization in a flow microreactor (Sch. Eng., Yokohama Natl. Univ.) ○NAKAMURA, Yuto; TANAKA, Kenta; ATOBE, MahitoAsian International Symposium
- Electrochemistry -

Monday, March 18, PM

(13 : 00~13 : 10)

316-25[#] Opening Remarks / Closing Remarks Opening Remarks (Tottori Univ.) ○Nokami, Toshiaki (13:00~13:10)

Chair: Oyama, Yousuke (13 : 10~14 : 10)

316-26[#] Invited Lecture Synthesis of Heterothenoacenes via Construction and Cyclization of Chalcogen-Bridged Thiophene Derivatives and Their Properties (Okayama Univ.) ○Mitsudo, Koichi (13:10~13:30)**316-28[#]** Invited Lecture Unique response systems based on redox-active hydrocarbons with hyper covalent bond or strained double bond (Hokkaido Univ.) ○Ishigaki, Yusuke (13:30~13:50)**316-30[#]** Invited Lecture Functional polymeric materials based on charge-transfer interaction (Hiroshima Univ.) ○Imato, Keiichi (13:50~14:10)

Chair: Inagi, Shinsuke (14 : 20~15 : 30)

316-33[#] Invited Lecture Bioinspired Catalyst beyond Vitamin B12 Enzyme Function (Kyushu Univ.) ○Shimakoshi, Hisashi (14:20~14:40)**316-35[#]** Invited Lecture Highly efficient Z-scheme water splitting on printable photocatalyst sheets for solar hydrogen production (TOTO LTD.) ○Tokudome, Hiromasa (14:40~15:00)**316-37[#]** Keynote Lecture Carbon-Carbon Bond Activation by Light Absorption, Charge Transfer, and Redox Catalysis (Nanyang Technological Univ.) ○Soo, Han Sen (15:00~15:30)

Chair: Shimizu, Akihiro (15 : 40~16 : 50)

316-41[#] Invited Lecture Electron-Catalyzed Cross-Coupling Reactions (Kwansei Gakuin Univ.) ○Shirakawa, Eiji (15:40~16:10)**316-44[#]** Invited Lecture Flavon-iodine-catalyzed oxidative transformations driven by molecular oxygen (Shimane Univ.) ○Iida, Hiroki (16:10~16:30)**316-46[#]** Invited Lecture Cathodic reduction on boron-doped diamond electrode (Univ. of Tsukuba) ○Saitoh, Tsuyoshi (16:30~16:50)

Chair: Amaya, Toru (16 : 50~17 : 20)

316-48[#] Asia Special Lecture Photo-redox and Electrochemical-Oxidation Induced C-H Activation and Updating the Oxidative Cross-Coupling with Hydrogen Evolution (Wuhan Univ.) ○Lei, Aiwen (16:50~17:20)

(17 : 20~17 : 30)

316-51[#] Opening Remarks / Closing Remarks Closing Remarks (Tokyo Univ. of Agriculture and Technology) ○Chiba, Kazuhiro (17:20~17:30)

Marina; SEKINE, Akiko; UEKUSA, Hidehiro

- 217-46** Dehydration Transformation Behavior of Telmisartan Multi-Component Crystals (faculty of science, Tokyo Institute of Technology) ○MIYAKE, Tatsuki; SEKINE, Akiko; UEKUSA, Hidehiro
- 217-47[#]** The investigation of kinetics for the photoproduct of salicylidenbenzylamines (IIS, The Univ. of Tokyo) ○HUANG, Hongyi; SUZUKI, Yoshikazu; MUTAI, Toshiki; YOSHIKAWA, Isao; HOUJOU, Hirohiko
- 217-48** Time Dependence of Deformation Stress of an Organic Crystals Exhibiting Twinning Superelasticity (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○SAKAMOTO, Shunichi; TAKAMIZAWA, Satoshi; SASAKI, Toshiyuki; OZAKI, Noriaki
- 217-49** Mechanism of photoinduced motion in azobenzene crystal by observing the effect of the substrate surfaces (EPRI, AIST) ○HAYASHINO, Masaru; OHNUMA, Mio; NAKANO, Miki; TAKADA, Naoki; NORIKANE, Yasuo
- 217-50** Swimming motion of micro-sized thin crystals with autonomous and rapid flipping under blue light irradiation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○OBARA, Kazuma; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu

Monday, March 18, AM

Optical Property

Chair: KATAGIRI, Hiroshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(317-01, 317-02, 317-03, 317-04, 317-05, 317-06)
- 317-01** Synthesis and chemiluminescence property of adamantylideneadamantane 1,2-dioxetanes with a conjugated chromophore (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications; Grad. Sch. Sci., Eng., Tokyo Tech.) ○MATSUHASHI, Chihiro; UEKUSA, Hidehiro; MAKI, Shojiro; HIRANO, Takashi
- 317-02** Solid state chemiluminescence properties of acridine 1,2-dioxetanes with a nitroaryloxycarbonyl group. (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○AZUMA, Shun; UEKUSA, Hidehiro; MAKI, Shojiro; HIRANO, Takashi
- 317-03** Crystal Size Dependence of Multicolor Luminescence of Trinuclear Gold Complexes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KURODA, Yuki; ITO, Fuyuki; HISANO, Kyohei; TSUTSUMI, Osamu
- 317-04** Chiral amplification of spiroopyrans by dynamic crystallization (Chiba Univ.) ○SAITO, Rei; UEMURA, Naohiro; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 317-05** Chiral amplification by dysmmetrization of meso-diols involving dynamic crystallization (Fac. Eng., Chiba Univ.) ○WASHIO, Aoi; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 317-06** Absolute Asymmetric Synthesis of Amino Acid Derivative Involving Dynamic Crystallization (Grad. Sch. Eng., Chiba Univ.) ○UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

Structure and Property

Chair: ITO, Fuyuki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(317-08, 317-10, 317-11, 317-12, 317-13)
- 317-08^{*}** Accuracy of intermolecular interaction energies obtained by dispersion corrected DFT method (CD-FMat, AIST) ○TSUZUKI, Seiji; UCHIMARU, Tadafumi
- 317-10** Structures and fluorescent properties of 2,5-bis(trifluoromethylsulfonyl)-1,4-phenylenediamine analogues. (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SASAKI, Ryo; KATAGIRI, Hiroshi
- 317-11** Crystal Structures of Di(4-pyridyl)polyenes: Effects of Conjugation Chain Length (AIST; Grad. Sch. Eng., Osaka Univ.) ○SONODA, Yoriko; TOHNAI, Norimitsu; SHIMOI, Yukihiro
- 317-12** Crystal structure and property of pyrimidyl group-introduced indandione dimer (School of Engineering, Osaka University) ○NISHIMURA, Mio; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 317-13** Crystal structure analysis of the multi-component crystal of phenylbutazone (Sch. Sci., Tokyo Tech.) ○EBISAWA, Haruka; SEKINE, Akiko; UEKUSA, Hidehiro

Room P

Gymnasium and Auditorium Arena

Saturday, March 16, AM

(10 : 00 ~ 11 : 30)

Inorganic Chemistry

Syntheses and Reactions of Inorganic Compounds

- 1PA-001** Preparation Condition of Electroplated Co₂MnSn Heusler alloy thin film (Coll. Sci. Eng., Kanto Gakuin Univ.) ○SUMIYOSHI, Rie; TAKANASHI, Hiroshi; KOIWA, Ichiro
- 1PA-002** Effect of Small Amount of Metal Chlorides Addition on Aluminum Electrodeposited Film Plated from Bath using Non-Aqueous Solvent (Graduate School of Engineering) ○OGATA, Ryo; YANAI, Kouhei; KOIWA, Ichirou
- 1PA-003** Optimization of the conditions of hydrothermal synthesis of ionic conductive sodium aluminum phosphates (Fac. Sci., Kochi Univ.) ○SHIMANOUCI, Rie; TAKATSUKA, Atsuyo; OZEKI, Ryoga; KAWANO, Yuta
- 1PA-004** Synthesis of Zn-Al layered double hydroxide by hydrolysis of polyhydroxoaluminum complex (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○KOBAYASHI, Yota; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PA-005** Synthesis of swellable Na-taeniolite series micas by a solid-state reaction method (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○KAWAI, Takanari; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PA-006** Low-temperature formation of α -alumina from polyhydroxoaluminum complex gels containing different additives having an amino group (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○MATSUDA, Wataru; YAMAGUCHI, Tomohiro; TARUTA, Seiichi
- 1PA-007** Mechanochemical reaction by h-BN and titanium oxide (Grad. Sch. Eng., Kobe Univ.) ○HAYASHI, Masatoshi; KAJINAMI, Akihiko; NARIAI, Hiroyuki
- 1PA-008[#]** A Novel and Facile Method for Preparation of Potassium Niobate and its Application (Fac. Sci. Eng., Kindai Univ.) ○IKEGAMI, Tomohiro; SOEJIMA, Tetsuro
- 1PA-009[#]** Low Temperature Synthesis of Anatase-Rutile TiO₂ Nanocomposite Photocatalysts (Kindai Univ.) ○KITAMURA, Naoki; SOEJIMA, Tetsuro
- 1PA-010[#]** Development of Simple Synthetic Method of Manganese Oxides Nanowire Arrays and Their Application (Fac. Sci. Eng., Kindai Univ.) ○MIYAMAE, Keisuke; SOEJIMA, Tetsuro

Structures and Properties of Inorganic Compounds

- 1PA-011[#]** Shape-Controlled Manganese-Based Oxides Nanoparticles and Their Function (Grad. Sch. Sci. Eng., Kindai Univ.) ○OTA, Yusuke; SOEJIMA, Tetsuro
- 1PA-012[#]** ¹¹⁹SnNMR Characterization of perovskite Sn(II) halide for solar cell (Grad. Sch. Industrial Tech., Nihon Univ.) ○FUJISE, Kazuki; YAMANE, Yohei; YAMADA, Koji; NAKAGAMA, Tatsuro

Solid-state Chemistry

- 1PA-013[#]** Synthesis of ϵ -iron oxide using block copolymer by sol-gel method (Sch. Sci. Eng., Univ. of Tsukuba; Fac. Sci., The Univ. of Tokyo) ○WATANABE, Koki; ARAKI, Yusuke; TSUKAMOTO, Seiya; TOKORO, Hiroko; OHKOSHI, Shin-ichi

Radiochemistry, Nuclear Chemistry, f-Block Elements

- 1PA-014** Study on the separation of Pa by the manganese mat filter method (Kanazawa Univ.) ○NAKADA, Hiroki; YOKOYAMA, Akihiko
- 1PA-015[#]** Experimental and Computational Study of Complex Forming Behavior of Zr, Hf, and Th in Nitric Acid - Toward the Chemical Study on Element 104, Rf (Sch. Sci., Osaka Univ.) ○WATANABE, Eisuke; NINOMIYA, Hidemi; SHIGEKAWA, Yudai; OUCHI, Kouki; HAYAMI, Sho; KASAMATSU, Yoshitaka; KITAGAWA, Yasutaka; NAKANO, Masayoshi; YOKOKITA, Takuya; SHINOHARA, Atsushi
- 1PA-016** Coprecipitation of various RIs with Sm hydroxide for chemical study on heavy elements (Grad. Sch. Sci., Osaka Univ.) ○KASAMATSU, Yoshitaka; NAGASE, Masahiro; NINOMIYA, Hidemi; WATANABE, Eisuke; SHIGEKAWA, Yudai; KONDO, Narumi; TAKAMIYA, Koichi; SHINOHARA, Atsushi
- 1PA-017** Development of a Monte Carlo simulation code for analyses of adsorption and desorption behavior of short-lived nuclides in a surface ion-source (ASRC, JAEA) ○TOKOI, Katsuyuki; SATO, Tetsuya; EICHLER, Robert; ITO, Yuta; TOMITSUKA, Tomohiro; SUZUKI, Hayato; ASAI, Masato; TSUKADA, Kazuaki; NAGAME, Yuichiro

Polyoxometalates

- 1PA-018** Synthesis and characterization of Nb mono-substituted Keggin-type heteropolyacid (Grad. Sch. Eng., Hiroshima Univ.; Mitsubishi Chemical Corp.) ○MATONO, Takashi; SADAKANE, Masahiro; TSUNOJI, Nao; NINOMIYA, Wataru; KATO, Yuki; SANO, Tsuneji
- 1PA-019** Spectral change of the 132-nuclear Kegel-type polyoxomolybdates by the substitution with tungsten atoms. (Coll. Hum. Sci., Nihon Univ.) ○HORI, Asuka; OHASHI, Kenji; OZEKI, Tomoji
- 1PA-020** Synthesis and structure of a new intercluster compound consisting of the hexatungstate and a silver-ethynide cluster. (Coll. Hum. Sci., Nihon Univ.) ○HARADA, Yui; OHASHI, Kenji; OZEKI, Tomoji

Porous Compounds

- 1PA-021** Synthesis of MFI zeolite using water soluble silicon source (Grad. Sch. Eng., Hiroshima Univ.) ○TOMITA, Kayo; SADAKANE, Masahiro; TSUNOJI, Nao; KATAGIRI, Kiyofumi; SANO, Tsuneji
- 1PA-022[#]** Synthesis of mesoporous zirconia particles with spherical morphology by the solvothermal method (Sch. Sci. Tech., Gunma Univ.) SUGIYAMA, Fuya; OIWAMOTO, Shinji
- 1PA-023** Structure-controlled synthesis of zirconium-based metal-organic nanocrystals. (Sch. Env. Sci. Eng., KUT) ○ISHIDA, Mako; OHTANI, Masataka
- 1PA-024** Lanthanoid-doped luminescent metal-organic nanocrystals (Sch. Env. Sci. Eng., KUT) ○MITSUNARI, Yoshimi; OHTANI, Masataka
- 1PA-025** Synthesis of boron-bridged metal-organic nanocrystals: Effect of ligand structures (Sch. Env. Sci. Eng., KUT) ○KATO, Takeshi; OGURA, Yudai; OHTANI, Masataka
- 1PA-026** Synthesis of boron-bridged metal-organic nanocrystals: Effect of metal species (Sch. Env. Sci. Eng., KUT) ○OGURA, Yudai; KATO, Takeshi; OHTANI, Masataka
- 1PA-027** One-pot synthesis of football-shaped metal-organic nanocrystals (Sch. Env. Sci. Eng., KUT) ○OHMIYA, Shunsuke; OHTANI, Masataka
- 1PA-028[#]** Cooperative-impregnation method - A new approach to prepare high-performance supported catalysts (Sch. Env. Sci. Eng., KUT) ○AOKI, Ryota; HAYASHI, Kahoko; KAN, Kai; OHTANI, Masataka; KOBIRO, Kazuya
- 1PA-029** Stabilities of metal-organic frameworks in solvents (Fac. Eng., OIT) NOMURA, Ryoki; ○SHIMADA, Daichi; OKI, Kengo; OHTAKA, Atsushi; SHIMOMURA, Osamu

Layered Compounds, Nanosheets, Inorganic Thin Films

- 1PA-030[#]** Superlattice structured CoNiFe layered double hydroxide/ruthenium oxide nanosheets as efficient electrocatalysts for oxygen evolution reaction (MANA, NIMS) ○LU, Xueyi; MA, Renzhi; SAKAI, Nobuyuki; TANG, Daiming; LI, Xinming; SASAKI, Takayoshi
- 1PA-031[#]** Highly efficient photocatalytic H₂ production from restacked titania nanosheets modified with monolayer 1T MoS₂ (MANA, NIMS) ○NURDIWIJAYANTO, Leanddas; WU, Jinghua; SAKAI, Nobuyuki; MA, Renzhi; EBINA, Yasuo; SASAKI, Takayoshi
- 1PA-032[#]** Swelling and delamination behaviors of layered perovskite niobate crystals with a series of quaternary ammonium ions (MANA, NIMS) ○SONG, Yeji; IYI, Nobuo; EBINA, Yasuo; MA, Renzhi; SASAKI, Takayoshi
- 1PA-033** Preparation of Zn-containing lepidocrocite-type layered potassium titanates aiming for obtaining high-layer-charge nanosheets via acid-treatment and swelling operations (MANA, NIMS) ○IYI, Nobuo; KIKUCHI, Takayuki; SASAKI, Takayoshi
- 1PA-034[#]** Construction of inorganic oxide nanosheet films with tailored nanostructures via a facile spin-coating process (MANA, NIMS; Grad. Sch. Fac. Sci. Technol., TUS) ○YANO, Hitomi; EBINA, Yasuo; FUJIMOTO, Kenjiro; SASAKI, Takayoshi
- 1PA-035** Adsorption of gaseous carboxylic acid by chloride type of layered double hydroxide (Kobe Pharm. Univ.) YASUDA, Miku; OOKATA, Anzu; HAYASHI, Aki; MAEDA, Hideko; TANAKA, Masafumi; ○NAKAYAMA, Hirokazu
- 1PA-036[#]** Preparation of Tungstate K₂W₄O₁₃ with a Tunnel Structure and Ion Exchange Products (NIT, Tokuyama College) ○OHASHI, Masao
- 1PA-037[#]** Restack/exfoliation transition of exfoliated nanosheet sol via cooling (SACI, Kyoto Univ.) ○FUKUDA, Katsutoshi; MORITA, Masahito
- 1PA-038** Kinetic analysis of adsorption behavior of caffeine from aqueous solution on organoclays. (Fac. Eng., Shinshu Univ.) ○IZUMI, Kana; OKADA, Tomohiko
- 1PA-039** Crystal growth of an expandable layered silicate on fluorophopite surface (Fac. Eng., Shinshu Univ.) ○SUGIURA, Misa; SUEYOSHI, Mai; SEIKE, Ryuichi; HAYASHI, Takayoshi; OKADA, Tomohiko
- 1PA-040[#]** Alternate Layered Nanostructure of TiO₂/graphite oxide nanosheet by a click reaction and electrochemical application (Grad. Sch. Sci. Technol., Shinshu Univ.) ○ISHIMOTO, Keita; TAKIMOTO, Daisuke; HIDEHISHI, Sho; MOCHIZUKI, Dai; SUGIMOTO, Wataru
- 1PA-041** Intercalation of sodium and linear organic compounds into molybdenum disulfides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.)

Coordination Chemistry, Organometallic Chemistry

- 1PA-043** Effects of exchanging counter cations on SMM properties of tris(dipicolinato) Dy(III) mononuclear complexes (Fac. Sci., Nara Women's Univ.) ○UEOKA, Shiho; KAMIOKA, Mone; NAKANISHI, Saki; OGAWA, Haruna; KATAOKA, Yumiko; KAJIWARA, Takashi
- 1PA-044** Slow magnetic relaxation behavior of tris(dipicolinato) Gd(III) mononuclear complex (Fac. Sci., Nara Women's Univ.) ○KAMIOKA, Mone; UEOKA, Shiho; NAKANISHI, Saki; OGAWA, Haruna; KATAOKA, Yumiko; KAJIWARA, Takashi
- 1PA-045[#]** Theoretical Examination on Absorption of Hydrogen Molecules to Coordinatively Unsaturated Magnesium Compounds (FIFC, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; Toyota Central R&D Labs., Inc.; Toyota Motor Corp.) ○TANAKA, Kazuyoshi; FUENO, Hiroyuki; MATSUMOTO, Mitsuru; YAMAZAKI, Kiyoshi; KITA, Takuji
- 1PA-046[#]** Syntheses of Coordinatively Unsaturated Magnesium Compound and Study on its Hydrogen Storage Properties (Toyota Central R&D Labs., Inc.; FIFC, Kyoto Univ.; Toyota Motor Corp.) ○MATSUMOTO, Mitsuru; YAMAZAKI, Kiyoshi; TANAKA, Kazuyoshi; KITA, Takuji
- 1PA-047** Solid acid-catalyzed selective coupling reaction of acetoxy silanes with silanols (Interdis. Res. Cent. Catal. Chem., AIST) ○YAMASHITA, Hiroshi; HATORI, Makiko; SATO, Kazuhiko; IGARASHI, Masayasu
- 1PA-048** Selective coupling reaction of acetoxy silanes with silanols affording linear and cyclic oligosiloxanes (Interdis. Res. Cent. Catal. Chem., AIST) ○SHINOHARA, Yoshihiro; YAMASHITA, Hiroshi; SHIMADA, Shigeru; SATO, Kazuhiko; IGARASHI, Masayasu
- 1PA-049[#]** Synthesis of Luminescent Mixed-Crystals Having Pyrazine Derivatives by Utilization of Piperazine Bridged Silver(I) Coordination Polymer (Fac. Sci., Univ. of Toyama) ○KUWAHARA, Taiki; YOSHIOKA, Tsubasa; OHTSU, Hideki; TSUGE, Kiyoshi
- 1PA-050** Synthesis and characterization of diarsine-ligated gold clusters (Grad. Sch. Env. Sci., Hokkaido Univ.; KIT) ○ZHANG, Fan; SHICHIBU, Yukatsu; KONISHI, Masafumi; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke; KONISHI, Katsuaki
- 1PA-051** Synthesis of Hetero-multinuclear Complexes Containing First Row Transition Metals and Lanthanide Supported by a Macrocyclic Ligand (Sch. Eng. Sci., Osaka Univ.) ○FUJIWARA, Sakiko; AOKI, Ryota; NAGAE, Haruki; SCHINDLER, Tobias; SPANIOL, Thomas P.; OKUDA, Jun; MASHIMA, Kazushi
- 1PA-052[#]** Influence of aromatic thiolato Ligand in the formation of silver and cobalt mixed complex (8) (Grad. Sch. Integrated Arts Sci., Kochi Univ.; Grad. Sch. Eng., Nagoya Inst. of Tech.) INOUE, Ren; OZAWA, Tomohiro; ○YONEMURA, Toshiaki
- 1PA-053** Stereoselectivity of S-Bridged Heteropolynuclear Complexes Depends on Geometrical Structures of Metal Ions (Kobe City Coll. Technol.) ○OKAMOTO, Akihito; AZUI, Nao; MIYASHITA, Yoshitaro
- 1PA-054** Synthesis of d¹⁰ complexes using an ethylene-bridged diisopyrazole ligand (Sch. Eng., Hokkaido Univ.) ○KASAI, Chika; UESAKA, Mitsuharu; YONEDA, Tomoki; INOKUMA, Yasuhide
- 1PA-055[#]** Structural controls and properties of novel polynuclear Cu(I)-C₂H₄ complexes directed by counter anions (Grad. Sch. Sci. Eng., Kindai Univ.) ○HAYASHI, Terumasa; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi
- 1PA-056** Syntheses, Crystal Structures, and Spectroscopic Properties of Mixed-Ligand Copper(I) Complex with N,N-Dimethyl-4-aminopyridine (Fac. Sci. Eng., Saga Univ.) ○OGAWA, Kohei; KORI, Daishin; YAMADA, Yasunori
- 1PA-057** Exploration of the Photoluminescence-Property Control of Rare Earth MOFs (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TOSHIMA, Hiroki; KITAMURA, Yu; TANAKA, Daisuke
- 1PA-058[#]** Synthesis and magnetic property of a novel tetranuclear iron complex using N₂O₂ hexadentate Schiff base ligand driven from 4,6-dihydroxyisophthalaldehyde (Fac. Sci. Eng., Kindai Univ.) ○HIRAOKA, Saki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-059** Synthesis of an Extremely Bulky Rind-based Monodentate Aryl-oxide Ligand and Its Complexation Properties (Grad. Sch. Sci. Eng., Kindai Univ.) ○WATAUCHI, Toshiaki; IDUKA, Koji; SUGANO, Kohei; ROSAS-SANCHEZ, Alfredo; HASHIZUME, Daisuke; MATSUO, Tsukasa
- 1PA-060** Cesium Adsorption Property of Prussian-Blue-Nanoparticles-Encapsulated Liposome (Grad. Sch. Sci., Kyushu Univ.) ○YUGAWA, Mayuko; KOSHIYAMA, Tomomi; OHBA, Masaaki
- 1PA-061** Synthesis, structure and hysteretic spin crossover at around room temperature of the mononuclear iron(II) complex with a 1,2,3-triazole-containing linear hexadentate ligand. (Grad. Sch. Edu., Gifu Univ.; Fac. Edu., Gifu Univ.) ○NAKATA, Keishi; HAGIWARA, Hiroaki
- 1PA-062[#]** Synthesis and Properties of N,C,S-Pincer Iron Carbonyl Complexes Bearing a Quinoyl Group (Fac. Sci., Kanagawa Univ.) ○HIROTSU, Masakazu; NAKAZAWA, Kotomi
- 1PA-063** Synthesis and electrochemical properties of a pentanuclear helical cluster complex with pyrazole derivative ligand (Fac. Sci., Fukuoka Univ.) ○INANAGA, Ayaka; ISHIKAWA, Ryuta; KAWATA, Satoshi
- 1PA-064** Synthesis of Iron Complexes Bearing Ethyl(2-pyridylmethyl)amino-

- cetato (Sci. Tec., Sophia Univ.) ○KOMATSU, Ryoya; MISAWA, Tomoyo; NAGAO, Hirotaka
- 1PA-065** Self-assembly of multinuclear coordination cages with photoactive iridium centers (Fac. Eng., The Univ. of Tokyo) ○KOYAMADA, Kenta; TAKEZAWA, Hiroki; FUJITA, Makoto
- 1PA-066** Preparation of Multimetallic Manganese Clusters by Reducing Oxocentered Trinuclear Manganese Clusters with Bridging Carboxylate Ligands (Grad. Sch. Eng. Sci., Osaka Univ.) ○TORII, Ryuya; TSURUGI, Hayato; MASHIMA, Kazushi
- 1PA-067** Syntheses and Properties of Manganese Carbonyl Complexes with Bi- or Tridentate Terpyridine Derivatives (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○WADAYAMA, Kosei; TAKASE, Tsugiko; OYAMA, Dai
- 1PA-068** Thermal reactions of dianionic molybdenum sulfide clusters with alkaline and alkali earth metal cations (Fac. Sci. Eng., Chuo Univ.) ○KURIHARA, Kazuto; CHANG, Ho-chol; MATSUMOTO, Takeshi
- 1PA-069[#]** Synthesis of the Novel Lead(II) Coordination Polymers (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○HAMANO, Ryo; KAMAKURA, Yoshinobu; TANAKA, Daisuke
- 1PA-070** Formation and Properties of π -bonds between platinum dinuclear complex and molybdenum dinuclear complex (Fac. Eng., Gifu Univ.) ○SAHASHI, Asuka; EBIHARA, Masahiro; UEMURA, Kazuhiro
- 1PA-071** Syntheses and characterization of multinuclear complexes comprised of pop-bridged paddle wheel dinuclear platinum complex and rhodium complexes (Fac. Eng., Gifu Univ.) ○MENJO, Akari; EBIHARA, Masahiro; UEMURA, Kazuhiro
- 1PA-072** Synthesis of boron-bridged tetradentate ligand and its metal complexes. (Grad. Sch. Eng., Nagasaki Univ.) ○HIROTA, Shunki; SAKUDA, Eri; HORIUCHI, Shinnosuke; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
- 1PA-073** Synthesis and Multicolor Luminescent Properties of Re(V)Ln(III) Complexes (Fac. Sci., Kyushu Univ.) ○KAWAHARA, Keita; MIURA, Hiroki; KAWAMURA, Takuya; OHBA, Masaaki
- 1PA-074** Synthesis of a novel luminescent complex with ring-shaped Re (I) multinuclear complex as building blocks (Fac. Sci. and Technol., Seikei Univ.) ○ISHIKAWA, Jun; YAMAZAKI, Yasuomi; TSUBOMURA, Taro
- 1PA-075** Synthesis of Oxo-bridged Rhodium-Gold Multinuclear Complexes (Engineering Science School, Osaka University) ○NAKAMOTO, Masami; TSURUGI, Hayato; MASHIMA, Kazushi
- 1PA-076** Synthesis of Ru(II) complex changed color by absorbed water molecules (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○NAGAI, Tomoya; SHINOZAKI, Kazuteru
- 1PA-077** Synthetic strategies for azo-ruthenium complexes containing different polypyridyl bidentate ligands (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○KAINUMA, Shuya; TAKASE, Tsugiko; OYAMA, Dai
- 1PA-078** An Evaluation of Optical Properties of Coordination Mode-Controlled Ruthenium Complexes with Electron Donating Substituents at the Axial Ligands (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○NAKAMURA, Shunsuke; TAKASE, Tsugiko; OYAMA, Dai
- 1PA-079[#]** Thermal Behavior of Phosphine-coordinated μ 3-Oxide-triruthenium Acetate Complexes (Grad. Sch. Sci., Kitasato Univ.) ○SAIKI, Takahiro; YUGE, Hidetaka
- 1PA-080** Synthetic Study on Metal-Organic Frameworks Composed of Porphyrin and the Group IV Elements. (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KIYONO, Miyako; TANAKA, Yoko; TANAKA, Mizuki; TANAKA, Daisuke
- 1PA-081[#]** Synthesis and analysis of porphyrin derivatives for self-assembling macrorings (Grad. Sch. Sci. Tech., Nihon Univ.) ○OKUMURA, Takumi; NAGAI, Hiroaki; KIDA, Yuki; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-082** Spectroscopic Properties of Double Helical Zinc(II) Complex Derived from N2O2-type Ligand Introducing Bulky Substituent in Torsion-Generating Source (Fac. Sci. Eng., Saga Univ.) ○IWAKUMA, Takuya; OSHIKAWA, Yuuki; YAMADA, Yasunori
- 1PA-083** Synthesis of Zirconium Complexes Bearing a Tridentate [OCO] Ligand (Sch. Sci., Tokyo Tech.) ○OHGUUCHI, Masato; KAWAGUCHI, Hiroyuki; ISHIDA, Yutaka
- 1PA-084[#]** Synthesis of related derivatives aimed at elucidating properties and usefulness of a copper metallacrown (Coll. Sci. Tech., Nihon Univ.) ○KOBORI, Seiyu; HOSOYA, Yosuke; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-085[#]** Emission Property control of lanthanide porous coordination polymers (Dept. Chem., Konan Univ.) ○MATSUMOTO, Airi; KATAGIRI, Kosuke
- 1PA-086[#]** Synthesis of Phosphine-Palladium metalloid with catalytic function and construction of Metal Organic Frameworks(MOFs) (Grad. Sch. Natural Sci., Konan Univ.) ○TAKAGI, Tsubasa; KATAGIRI, Kousuke
- 1PA-087** Crystal structures and mixed valence states of one-dimensional bromido-bridged mixed-valence platinum(II,IV) complex salts with phosphite ions. (Coll. Sci., Rikkyo Univ.) ○MIKAMI, Akira; MATSUSHITA, Nobuyuki
- 1PA-088** Trial construction of ionic liquids comprising tetracyanidoplatinate (II) and imidazolium cations (Coll. Sci., Rikkyo Univ.) ○KANEKO, Masahiro; MATSUSHITA, Nobuyuki
- 1PA-089** Crystal polymorphs of charge-transfer salts composed of tetracyanidoplatinate(II) and organic acceptor having hydroxyethyl group (Coll. Sci., Rikkyo Univ.) ○HONMA, Tomoya; MATSUSHITA, Nobuyuki
- 1PA-090** Bridging- and Terminal-Ligand Effects on Valence Ordering in the Crystalline-Phase Mixed-Valence Ruthenium Trinuclear Complexes (Grad. Sch. Mat. Sci., Univ. of Hyogo; JASRI) ○MORINO, Takashi; TAKAMURA, Kazuki; NAKAGAWA, Takahiro; NAKAIE, Takuya; TAHARA, Keishiro; OZAWA, Yoshiki; SUGIMOTO, Kunihisa; ABE, Masaaki
- 1PA-091** Syntheses and Conformation of Chelate Ring of Bis-Heteroleptic Ru (II) Complexes with Unsymmetrical Tridentate Ligand dmpdpdpda and bpy (Dept. of Sci. Tech., Meiji Univ.) ○ISHIKAWA, Mizuki; TOYAMA, Mari; NAGAO, Noriharu
- 1PA-092** Synthesis and Crystal Structure of Porous Extended π -Conjugated Zinc Porphyrin Complex (Fac. of Sci., Okayama Univ. of Sci.) ○OWADA, Kouhei; HATOU, Taiki; MITSUMI, Minoru
- 1PA-093[#]** Molecular-level Mechanism of External Stimuli-induced Disproportionation of Group 10 Metal Complexes with Semiquinonato (Grad. Sch. Sci. Eng., Chuo Univ.) ○YAMADA, Shota; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 1PA-094** Development of a supramolecular photocatalyst with a ring-shaped Re(I) trinuclear complex as a photosensitizer. (Sch. Sci., Tokyo Tech.) ○TANIGUCHI, Takashi; FABRY, David; ISHITANI, Osamu
- 1PA-095** *Trans*-(Cl)-[Ru(2,2'-bipyrazine)(CO)₂Cl₂] Synthesis, Structure, and Photocatalytic CO₂ Reduction Activity (Grad. Sch. Sci., Kitasato Univ.) ○ODA, Akira; KOBORI, Seiyu; OHTSUKA, Atsushi; UCHIYAMA, Yosuke; YAMAMURA, Shigefumi; ISHIDA, Hitoshi
- 1PA-096** Photosubstitution reaction of ruthenium complexes having intramolecular hydrogen bonding between pyrazole ligands (Dept. Appl. Chem., Nat. Def. Acad.) ○HIRAHARA, Masanari; YAMAMOTO, Rei; UCHIDA, Kyohei; UMEMURA, Yasushi
- 1PA-097** Withdrawn
- 1PA-098** Durable photocatalytic reaction utilizing two kinds of immiscible solvents (Fac. Sci. and Technol., Seikei Univ.) ○KITA, Kazuki; YAMAZAKI, Yasuomi; TSUBOMURA, Taro
- 1PA-099** Investigation of one-electron reduction processes of metal-complex photosensitizers (Sch. Sci., Tokyo Tech.) ○OZAWA, Kyohei; TAMAKI, Yusuke; KOIKE, Kazuhide; NAKAGAWA, Tatsuo; ISHITANI, Osamu
- 1PA-100** Humidity-induced magnetic and structural phase transition in a Co-W bimetal assembly with purine as the large multidentate ligand (Grad. Sch. Sci., The Univ. of Tokyo) ○KOMORI-ORISAKU, Keiko; OH-ISHI, Saori; OZAKI, Noriaki; MIYAMOTO, Yasuto; IMOTO, Kenta; OHKOSHI, Shin-ichi
- 1PA-101** Chain Length Dependence of cis-Type Valence Tautomer Complexes with Long Alkyl Chains (Fac. Sci. Eng., Chuo Univ.) ○OSAKABE, Yuka; KONISHI, Ryunosuke; MURAYAMA, Chiaki; MATSUMOTO, Takeshi; KOSAKA, Wataru; MIYASAKA, Hitoshi; CHANG, Ho-chol
- 1PA-102[#]** Magnetic properties for magnetic thin films of iron chromate hexacyanochromate (Sch. Sci. Eng., Univ. of Tsukuba; Fac. Sci., The Univ. of Tokyo) ○YAHAGI, Yuji; IKEDA, Yusuke; OHKOSHI, Shin-ichi; TOKORO, Hiroko
- 1PA-103** Chirality recognition based on redox-active tris dioxolene complexes (Fac. Sci. Eng., Chuo Univ.) ○MIZUTANI, Tomohiro; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 1PA-104[#]** Fabrication and characterization of organic thin film solar cells using a buffer layer of copper complexes including a HAT derivative as a bridging ligand (Grad. Sch. Sci. Eng., Kindai Univ.) ○GENNO, Wataru; OHKITA, Misaki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-105** Synthesis and Control of Physical Properties of Coordination Polymers Consisting with Copper Halides and Quinoline Derivatives (Fac. Sci. Eng., Kindai Univ.) ○OHKITA, Misaki; FUKUDA, Sanshiro; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-106** Adsorption Heat and Thermal Diffusivity Measurements of Nanoporous Metal Complexes having Micropores (Sch. Eng., Nagoya Univ.) ○HAMANISHI, Kento; KOYAMA, Mai; KUSAKA, Shinpei; HORI, Akihiro; MA, Yunsheng; MATSUDA, Ryotaro
- 1PA-107[#]** Synthesis and Properties of Dinuclear Copper Complex with Unsymmetric Coordination Environment (Grad. Sch. Sci., Osaka City Univ.) ○KAMADA, Yasunari; KOZAKI, Masatoshi; TACHI, Yoshimitsu
- 1PA-108** Aggregation and interaction of chiral base Schiff base Azo complex and Zn phthalocyanine (Grad. Sch. Sci., TUS) ○SOEJIMA, Tatsuo; AKITSU, Takashiro
- 1PA-109[#]** The pressure effect on SCO in a series of mixed ligand complexes [Fe(qsal^{2F})_x(qsal^{1S}Cl)_{2-x}](x=0-2) (Grad. Sch. Sci. Eng., Kindai Univ.) ○KAGOTANI, Takamasa; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-110** Photochemical reactivity of aromatic amines, alcohols, and thiols under CO₂ (Fac. Sci. Eng., Chuo Univ.) ○ABE, Kanae; KOIKE, Shota; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 1PA-111** Synthesis and photochemical reaction of tris-*o*-phenylenediamine Fe (II) complexes bearing electron-withdrawing groups (Fac. Sci. Eng., Chuo Univ.) ○TAKAHASHI, Yoshiki; AKISAWA, Hideaki; MATSUMOTO, Takeshi; CHANG, Ho-chol
- 1PA-112** Effect of the ancillary ligand on photochemical dehydrogenation of methanol catalyzed by *o*-aminophenolato 3d metal complexes (Grad. Sch. Sci. Eng., Chuo Univ.) ○KOIKE, Shota; MATSUMOTO, Takeshi; CHANG,

- Ho-choi
- 1PA-113** Magnetic Properties of 2-D Coordination Polymers Incorporated Bulky Axial Ligands (Fac. Sci., Kyushu Univ.; Grad. Sch. Sci., Kyushu Univ.) ○TOYAMA, Konatsu; YOSHINO, Haruka; KAWAMURA, Takuya; OHBA, Masaaki
- 1PA-114** Observation of zero-field splittings of a gadolinium complex which has having the square-antiprismatic ligand field (Sch. Sci., Osaka Univ.) ○MUTA, Arisa; FUKUDA, Takamitsu
- 1PA-115** Synthesis and Luminescence Behavior of Luminescent Heterodinuclear Iridium Complex Containing Aryl-Bismuth Phosphine (Fac. Sci., Fukuoka Univ.) ○KOGA, Yuji; TAKATSU, Daiki; MATSUBARA, Kouki
- 1PA-116** Emission properties of Ir(III) complexes with structural change of cyclometalate ligands (Fac. Sci., Saitama Univ.) ○WATANABE, Kei; NAGASAWA, Akira; OHNO, Keiji; FUJIHARA, Takashi
- 1PA-117** Photochemical behavior of iridium complexes with ligands of 2,2'-bipyridines having pyrene moieties and photochemical hydrogen generation using them as photosensitizers (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ENOMOTO, Takamasa; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 1PA-118** Synthesis and photophysical properties of new tris-cyclometallated iridium complexes with ligands of 2-(2-pyridyl)benzo[b]thiophene (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TOMINAGA, Masahiro; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 1PA-119** Synthesis and Hydrogen-Evolving Properties of New Nickel(II) Complexes Having an Anthraquinone Moiety (Grad. Sch. Sci., Kyushu Univ.; I₂CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○KAN, Masanori; YAMAUCHI, Kosei; SAKAI, Ken
- 1PA-120** Application of vibrational circular dichroism for axially chiral dinuclear Pd(II) complexes (Fac. Sci., Ehime Univ.) ○NOBORIGUCHI, Aoki; GOTO, Yutaro; WATANABE, Yutaka; SATO, Hisako
- 1PA-121** Synthesis and Multicolor Emission of Cyclometalated Saliylaldiminato Platinum (II) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○KONG, Lingtao; NAITO, Masaya; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 1PA-122** Control of Emission Properties of trans-Bis(thiosaliylaldiminato) Platinum(II) Complexes bearing Pyrenylethynyl Group by Changing of Bent Structure (Grad. Sch. Eng. Sci., Osaka Univ.) ○UENO, Kazushi; KATAKURA, Naoki; KAWAMORITA, Soichiro; KOMIYA, Naruyoshi; NAOTA, Takeshi
- 1PA-123** Time-dependent change of assemble structure of Pt(II) pincer complex bearing long alkyl chains (TREMS, Univ. of Tsukuba) ○ONO, Akane; KUWABARA, Junpei; KANBARA, Takaki
- 1PA-124** Synthesis and luminescent properties of stimuli-responsive platinum (II) complex with amino acid (Fac. Sci., Saitama Univ.) ○SHIRAIISHI, Kazuki; OHNO, Keiji; NAGASAWA, Akira; FUJIHARA, Takashi
- 1PA-125** Influence of ligand elimination on reversible structural changes accompanying the two-electron redox reaction of Pt(tacn) (tacn = 1,4,7-triazacyclononane) complexes (Coll. Sci., Rikkyo Univ.) ○DAI, Junichiro; NAKAZONO, Takashi; WADA, Tohru
- 1PA-126** Synthesis of Redox-active Catecholato Pt(II) Complexes with Ethylene Glycoxy Amide Chains and Hybridization with Electrolytes (Fac. Sci. Eng., Chuo Univ.) ○ECHIGO, Ryoya; OKADA, Koyuki; MATSUMOTO, Takeshi; CHANG, Ho-choi
- 1PA-127** Magnetic Circular Dichroism Studies of the Excited Triplet States of Platinum Porphyrins (IIS, The Univ. of Tokyo) ○WADA, Jyunya; MURATA, Kei; ISHII, Kazuyuki
- 1PA-128** Theoretical investigation on interaction of M-paddle-wheel units with gases (WPI-ITBM, Nagoya Univ.) ○PIRILLO, Jenny; HIJIKATA, Yuh
- 1PA-129** A Photo-Driven NAD⁺/NADH-type Conversion Reaction in NAD Model Ruthenium Complexes (Grad. Sch. Sci. Eng., Univ. of Toyama) ○SAITO, Tsubasa; TSUGE, Kiyoshi; OHTSU, Hideki
- 1PA-130** Synthesis of Si/Al silico-alumino-phosphate frameworks from molecular silicon and aluminum complexes (Fac. Sci. Eng., Chuo Univ.) ○IMAIZUMI, Akira; MATSUMOTO, Takeshi; CHANG, Ho-choi
- 1PA-131** Thermosensitive effect of a planar cobalt(II) complex (Fac. Edu., Gifu Univ.) ○KAMO, Yusuke; HAGIWARA, Hiroaki
- 1PA-132** Construction of self-assembled monolayers of redox-active molecules through silane coupling and characterization of modified substrates (Sch. Sci., Univ. of Hyogo) ○IKEDA, Takashi; TAHARA, Keishiro; OZAWA, Yoshiki; ABE, Masaaki
- 1PA-133** Development of the fabrication method of phthalocyanine-based chiral thin films using mechanical rotations (IIS, The Univ. of Tokyo) ○MIZUNO, Yuki; HATTORI, Shingo; MURATA, Kei; ISHII, Kazuyuki
- 1PA-134** Control of water adsorption properties of hydrophobic flexible MOF based on metal ion solid solution approach (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HIKAWA, Arata; KAMAKURA, Yoshinobu; YOSHIKAWA, Hirofumi; TANAKA, Daisuke
- 1PA-135** Synthesis and Reactions of Diarylco(II) Complexes (Grad. Sch. Sci. Eng., Kindai Univ.; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SUGANO, Kohei; OKAZAWA, Atsushi; MATSUO, Tsukasa
- 1PA-136** Synthesis of Cp^ΛIr(III) Complexes and Their Application (Fac. Pharm., Hokkaido Univ.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TOMITA, Eiki; KOJIMA, Masahiro; SHIBATA, Yu; TANAKA, Ken; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeki
- 1PA-137** Development of versatile Ni(II)/NHC catalyst precursors and investigation of their catalytic activity (Fac. Sci., Fukuoka Univ.) ○HOSOKAWA, Rion; INATOMI, Takahiro; KOGA, Yuji; MATSUBARA, Koki
- 1PA-138** Synthesis and Reactivity of Siloxy(organyl)phosphane Metal(0) Complexes (ICR, Kyoto Univ.) ○OMATSU, Yamato; KUNZMANN, Robert; SCHMER, Alexander; MIZUHATA, Yoshiyuki; STREUBEL, Rainer; TOKITOH, Norihiro
- 1PA-139** Reactions of Dilithioplumbole with Hafnium Reagents (Grad. Sch. Sci., Eng., Saitama Univ.) ○OWADA, Ryota; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PA-140** Construction of a planar tetranuclear palladium cluster having bridging silylene ligand and application to catalytic hydrogenation of alkenes (IIS, The Univ. of Tokyo) ○YANAGISAWA, Chikako; SUNADA, Yusuke
- 1PA-141** Synthesis of palladium and nickel complexes from the reaction of zero-valent precursors with disilane bearing the coordinating functionality (IIS, The Univ. of Tokyo) ○USUI, Ryosuke; HAGA, Masa-aki; SUNADA, Yusuke
- 1PA-142** Synthesis of Dinuclear Rhodium Complexes Supported by a New Tetrakisphosphine Ligand Containing an Amino Group and Their Reactions with HCl (Fac. Sci., Nara Women's Univ.) ○MAEDA, Yuki; NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 1PA-143** Synthesis and Catalytic Property of Novel Adjacent Binuclear Rhodium Complexes with Pyridylphosphine Ligands (Grad. Sch. Sci., Eng., Ehime Univ.) ○OHNISHI, Ryuhei; OHTA, Hidetoshi; HAYASHI, Minoru
- 1PA-144** Synthesis and properties of polymers with bithienylene-Si- π -electron system-benzothiadiazole (Dept. Life Sci., Kurashiki Univ. of Sci. and the Arts) ○TAKASE, Sakino; NAKA, Akinobu
- 1PA-145** Synthetic studies of a silylene complex of calix[4]arene (Grad. Sch. Sci. Eng., Chuo Univ.) ○KURIKI, Ryunosuke; KUWABARA, Takuya; ISHII, Youichi
- 1PA-146** Synthetic Studies on the Silicon Analogue of Phenyl Anion (ICR, Kyoto Univ.) ○TSUJI, Shingo; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 1PA-147** Synthesis and Structures of Binuclear Group 9 Transition Metal Complex Bridged by Tin Atoms (Grad. Sch. Sci., Eng., Saitama Univ.) ○KAWAKAMI, Yutaka; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PA-148** Bronsted Acid-promoted Oxygenation of a Methyl Ligand in SN-Pd complexes (Fac. Sci., Nara Women's Univ.) ○SHINOHARA, Tsugumi; HAYASHI, Miki; KATAOKA, Yasutaka; URA, Yasuyuki
- 1PA-149** Catalytic Si-F Bond Activation of Fluorosilanes by Group 10 Transition Metal Complexes (Grad. Sch. Sci., Osaka Pref. Univ.) ○AKIYAMA, Takuya; KAMEO, Hajime; MATSUZAKA, Hiroyuki
- 1PA-150** Synthesis of Novel Tridentate PNP Ligands Having Secondary Phosphine Oxide Moieties and Their Application to Oxygenation of a Benzylpalladium Complex (Fac. Sci., Nara Women's Univ.) ○OKA, Sayaka; MIYA, Karen; KATAOKA, Yasutaka; URA, Yasuyuki
- 1PA-151** Theoretical Study on the Reduction of Nitrite to Ammonia on a Diruthenium Complex (IMCE, Kyushu Univ.) ○EGI, Akihito; IKEDA, Kei; TANAKA, Hiromasa; SHIOTA, Yoshihito; ARIKAWA, Yasuhiro; YOSHIZAWA, Kazunari
- 1PA-152** Synthesis and Reactions of Zero-Valent Tin Complexes Stabilized by Butadiene Ligands (Grad. Sch. Sci., Eng., Saitama Univ.) ○KOBAYASHI, Shinya; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PA-153** Hydrosilylation of aldehyde mediated by Co (II) complex bearing tridentate phenoxymine ligand (Fac. Sci., Fukuoka Univ.) ○MITSUYAMA, Tomoaki; KOGA, Yuji; MATSUBARA, Kouki
- 1PA-154** The Catalytic Dehydrogenation of Formic Acid Catalyzed by Novel Iridium Complex Bearing a Pyrazole Ligand with OH Group (RIEF, AIST) ○ONISHI, Naoya; HIMEDA, Yuichiro
- 1PA-155** Reaction of Multi-substituted Allenes with Hydrosilane in the Presence of Catalytic Amount of Ir(I) Complex (Fac. Sci., Nara Women's Univ.) ○TAKEUCHI, Ichino; SAMOTO, Shoko; URA, Yasuyuki; KATAOKA, Yasutaka
- 1PA-156** Catalytic Transesterification Using Alkoxide-bridged Cubic Tetranuclear Complexes (Sch. Eng. Sci., Osaka Univ.) ○AKEBI, Shin-ya; KATO, Daiki; HIRAI, Takahiro; SOMA, Shusei; NAGAE, Haruki; MASHIMA, Kazushi
- 1PA-157** Orbital phase theory for diastereoselectivity in the palladium-catalyzed reaction (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) NARUSE, Yuuji; OHAYASHI, Naoki
- 1PA-158** Reaction Route for Allylic Arylation in Water Catalyzed by Metal Nanoparticles (Fac. Eng., OIT) OHTAKA, Atsushi; OFURUYA, Hiroshi; SHIMOMURA, Osamu; NOMURA, Ryoki
- 1PA-159** Development of the Asymmetric Conjugate Addition Using the Chiral Rare Earth Organophosphate: Catalytic Syntheses of Optically Active Fluorinated Amino Acid Derivatives (Kyoto Univ. of Educ.) ○SUZUKI, Shoko; YOKOYAMA, Yasuo
- 1PA-160** Cu-catalyzed cyanation of 2-bromocarbonyls (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TANAKA, Chihiro; MIWA, Naoki; ISHIDA, Syo; NISHIKATA, Takashi
- 1PA-161** Study on electron transfer for halogen-oxidized bimetalloenes using solid-state NMR spectroscopy (Fac. Sci., Hiroshima Univ.) NAKASHIMA, Satoru; ○KOWA, Chie; KOSHIYAMA, Taichi
- 1PA-162** Syntheses of Co(III) complexes having polypyridine ligand as

prodrug and their cytotoxicities against hypoxia tumor (Fac. Chem. Materials and Bioeng., Kansai Univ.; Nara Women's Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○NAKAI, Misaki; NAGATA, Daiki; SHIMONAKA, Yusuke; KOMATSU, Chie; YANO, Shigenobu; OGAWA, Akiya; NAKABAYASHI, Yasuo

1PA-163[#] Syntheses of Prussian Blue and its analogue in ferritin cavity (Osaka City Univ.) ○IKENOUE, Yuta; NISHIOKA, Takanori; NAKAJIMA, Hiroshi

1PA-164[#] Encapsulation of mononuclear Ni(II) salen-type complexes in an abasic site in DNA duplexes (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAYA, Manabu; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro

1PA-165[#] Isoquinoline synthesis from asymmetric alkyne using a Cp^{*}Rh complex-linked biohybrid catalyst (Grad. Sch. Eng., Osaka Univ.) ○HASHIZUME, Hiroyuki; KATO, Shunsuke; ONODA, Akira; HAYASHI, Takashi

1PA-166[#] Damage reduction of HSA during IR-FEL irradiation by amino acid derivative Schiff base of zinc (II) complexes (Fac. Sci., TUS) KOYA, Ryosuke; AIZAWA, Hiroki; NAKAGAME, Ryo; YOSHITO, Miyagawa; ONAMI, Yuika; HARAGUCHI, Tomoyuki; ○AKITSU, Takashiro; TAKAYASU, Kawasaki; KOICHI, Tsuyama; PARAFIX, Mauricio A.

1PA-167 Ab initio DFT study of acetylacetonate-NiO surface reactions in plasma-based atomic layer processing (Grad. Sch. Human. Sci., Nara Women's Univ.) ○NAKAMURA, Kana; ITO, Tomoko; KARAHASHI, Kazuhiro; HAMAGUCHI, Satoshi; TAKEUCHI, Takae

1PA-168[#] Synthesis and Properties of Heteroleptic Triple-decker Sandwich Dinuclear Lu(III) Complex Containing Octamethyl-substituted and Unsubstituted Phthalocyanines (Part 2) (Fac. Sci., Kyushu Univ.) ○TAKAHASHI, Kazuhiro; SUENAGA, Masahiko

Saturday, March 16, PM

(12 : 30~14 : 00)

Polymer

1PB-001 Imidazolium Ionic Liquid Having Bis(trifluoromethylsulfonyl)imide Anion as a Radical Initiator That Has an Effective Initiating Ability to Limited Vinyl Monomer (Tohoku Seikatsu Bunka Univ.) ○KANNO, Shuichi

1PB-002 Surface modification of polymer particles using ATRP polymerization (Grad. Sch. Sci. Eng., Kindai Univ.) ○MATSUBARA, Yuki; SUENAGA, Yusaku

1PB-003 Deintercalation behavior of 2-methylimidazole-intercalated α -zirconium phosphate as a thermal latent initiator (Fac. Eng., OIT) ○SHIMOMURA, Osamu; SASAKI, Suguru; KUME, Kaori; OHTAKA, Atsushi; NOMURA, Ryoki

1PB-004[#] Synthesis of polymers containing di/triarylmethane building blocks by Friedel-Crafts condensation (Grad. Sch. Eng., Tokyo City Univ.) ○TANAKA, Sho; MORI, Naoto; OTAKI, Keito; SHIOTSUKI, Masashi

1PB-005 Synthesis and surface functionalization of bottlebrush polymers using a macroinitiator (Grad. Sch. Sci. & Tech., NAIIST; Daikin Industries, Ltd.) ○MURASE, Nobuo; ANDO, Tsuyoshi; SHIBUTANI, Shota; TANAKA, Yoshito; KAWABE, Takuma

1PB-006 Synthesis of limonene derivatives carrying reactive groups and evaluation of the polymerization behavior using their limonene-based monomers (Fac. Eng., KAIT) ○HARASAWA, Yoshiki; YAMAGUCHI, Jun-ichi; MORIKAWA, Hiroshi

1PB-007[#] Synthesis of hyperbranched polymer by $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}/\text{dipimp}/\text{Zn}$ catalyzed [2+2+2] cycloaddition reactions of alkynes (Grad. Sch. Eng., Kanagawa Univ.) ○KIKUTA, Nana; YAMADA, Takeshi; OKAMOTO, Sentarou

1PB-008[#] Investigation on change in high-order structure and the resulting function induced by dynamic exchange of polypeptide side chain functional groups (Grad. Sch. Eng., Yokohama Natl. Univ.) ○INOUE, Mayumi; OYAMA, Toshiyuki; TOKORO, Yuichiro

1PB-009[#] Formation of fine pattern of novel alicyclic polyimides based on reaction development patterning using aqueous alkaline developers (Grad. Sch. Eng., Yokohama Natl. Univ.; JXTG Nippon Oil & Energy Corp.) ○MOTOMURA, Momoe; TOKORO, Yuichiro; OYAMA, Toshiyuki; WATANABE, Daisuke

1PB-010 Functionalization of polyurethane by palladium-catalyzed direct arylation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAGI, Seiichiro; NAKAZONO, Kazuko; UCHIDA, Satoshi; TAKATA, Toshikazu

1PB-011[#] Cooperative CO_2 Fixation Utilizing Polymer-Supported Organobase and Propargylamine (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MULYADI, Felicia Dea; NAKAZONO, Kazuko; UCHIDA, Satoshi; TAKATA, Toshikazu

1PB-012[#] Chiral Amplification Based on Aggregate Formation of Poly(biphenylacetylene) Derivatives (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○ISOBE, Asahi; HIROSE, Daisuke; NISHIMURA, Tatsuya; IKAI, Tomoyuki; YASHIMA, Eiji; MAEDA, Katsuhiko

1PB-013 Studies of P(NIPAAm) Combined to Glass Surface -Relations between Amounts of Adsorbed and Desorbed Water Molecules and Polymer Density on Glass Surface- (Grad. Sch. Nanobiosci., Yokohama City Univ.; International Coll. Arts Sci., Yokohama City Univ.) SASAKI, Aoi; YAMAGUCHI, Azusa; ○HONDA, Hisashi

1PB-014 Preparation of Liquid Crystalline Mixtures consisting of Polymeric Mesogens and Orientational Control (Fac. Eng., Oita Univ.) ○NAKAGAWA, Shougo; IWAMI, Yuko; UJIE, Seiji

1PB-015 Liquid Crystal Formation of Semiflexible Main-Chain Liquid Crystal Polymers and Influence of Hydrogen Bond Between Urethane Linkages (Fac. Eng., Oita Univ.) ○ONO, Ryohei; IWAMI, Yuko; UJIE, Seiji

1PB-016 Preparation and Orientational Property of Oriented Thin Film obtained from Mesogenic Molecules (Fac. Eng., Oita Univ.) ○KAWAI, Haruki; IWAMI, Yuko; UJIE, Seiji

1PB-017 Thermal Properties and Orientational Behavior of Liquid Crystalline Cellulose Elastomer (Fac. Eng., Oita Univ.) ○KANO, Kosuke; IWAMI, Yuko; UJIE, Seiji

1PB-018[#] Orientational Behavior of Liquid Crystalline Polymers with Hydrophilic Polymer Backbone (Grad. Sch. Eng., Oita Univ.) ○SANNOMIYA, Ayaka; IWAMI, Yuko; NATA, Masanori; UJIE, Seiji

1PB-019 Preparation of mechanochromic polymer introducing spiropyran in the side chain via in-situ polymer reaction (Sch. Eng., Univ. of Hyogo) ○HIROOKA, Shuichi; NISHI, Daichi; KONDO, Mizuho; KAWATSUKI, Nobuhiro

1PB-020 Controlling initial molecular alignment of liquid crystalline mechanochromic luminophore using alignment substrate (Sch. Eng., Univ. of Hyogo) ○TADA, Motoki; KONDO, Mizuho; KAWATSUKI, Nobuhiro

1PB-021 Fabrication of homogeneous aligned LC cell without pre-coated alignment layer (Grad. Sch. Eng., Univ. of Hyogo) ○KOTERA, Koichi; KONDO, Mizuho; ONO, Hiroshi; SASAKI, Tomoyuki; NODA, Kohei; SAKAMOTO, Moritsugu; KAWATSUKI, Nobuhiro

1PB-022 Alignment patterning of photoalignable liquid crystal containing hydrophobic unit using inkjet (Grad. Sch. Eng., Univ. of Hyogo) ○FUKUNAGA, Saki; UCHIKAWA, Tomoro; KONDO, Mizuho; KAWATSUKI, Nobuhiro

1PB-023 Preparation of Protein Antifouling Surface by Amphiphilic diblock Copolymer Film (Sch. Eng., Univ. of Hyogo) ○TSUJI, Alisa; ISHIHARA, Kazuhiko; YUSA, Shinichi

1PB-024 Preparation of water-soluble aggregate with cholesteric liquid crystalline core (Sch. Eng., Univ. of Hyogo) ○MIZOUE, Yoko; YUSA, Shin-ichi

1PB-025 Step- π -conjugated polymers (66) Synthesis and electron transfer evaluation of porphyrin-introduced polymers for applicable to artificial photosynthesis (Grad. Sch. Sci. and Eng., Kansai Univ.) ○OYAMA, Arata; GUO, Haoxuan; AOTA, Hiroyuki

1PB-026[#] Evaluation of crystallinity and electric conductivity of poly(3-alkyl thiophene) in insulated matrices (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○HIRAI, Azuma; FUKUMATSU, Takahiro; SAITO, Takayuki

1PB-027 Study for molecular weight dependency of optical properties of soluble polymer (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○TAKU, Sara; MORINAGA, Yusei; HIRAYAMA, Tomoyuki

1PB-028 Analysis of ion behavior in reverse osmosis membrane by measurement of dielectric relaxation phenomenon using KCl electrolyte (X-Breed, Shinshu Univ.) ○TANAKA, Atsushi; TATSUMI, Hirotsugu; KIMURA, Mtsumi

1PB-029 Unique structure of oligo(9,10-phenanthrene) (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAKAHIRO, Kawata; MUTSUMI, Kimura

1PB-030 Synthesis of Silica - Hydrophobized Hyaluronic Acid Hybrid Hydrogel (NIT, Numazu College) ○MASUDA, Yu; MATSUSHIMA, Hiroki; YAMANE, Setsuko; OHNUMA, Kiyoshi; SAWADA, Shinichi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

1PB-031 Release of heat-denatured protein from hydrophobized hyaluronic acid particles (NIT, Numazu College) ○UEDA, Eri; YAMANE, Setsuko; OHNUMA, Kiyoshi; SAWADA, Shinichi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

1PB-032 Controlled-release of protein from calcium phosphate-hydrophobized hyaluronic acid hybrid particles (NIT, Numazu College) ○MORIYA, Akinori; YAMANE, Setsuko; OHNUMA, Kiyoshi; SAWADA, Shinichi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari

1PB-033[#] Novel protein sensor based on pyrene-labelled polymers (Saarland Univ.) ○KAPF, Andreas; WENZ, Gerhard

1PB-034[#] Preparation of stimuli-responsive polymeric materials based on the sliding motion of supramolecules (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.) ○TAMURA, Hiroki; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu

1PB-035 Effects of Water Content on Adhesion of Host-Guest Gels (Sch. Sci., Osaka Univ.; Sch. Sci., Osaka Univ.) ○YONEI, Shin; IKURA, Ryouhei; TAKASHIMA, Yoshinori; OSAKI, Motofumi; HARADA, Akira; YAMAGUCHI, Hiroyasu

1PB-036[#] Development of Cell Scaffold Materials Formed from Gelatin and Synthetic Polymer Cross-linked by Host-Guest Interaction (Grad. Sch. Sci., Osaka Univ.) ○MITAKE, Nodoka; TAKASHIMA, Yoshinori; NAKAHATA, Masaki; HARADA, Akira; TANAKA, Motomu; YAMAGUCHI, Hiroyasu

1PB-037 Development of a ruthenium supramolecular catalyst with methylated Cyclodextrin as a ligand and its ring-opening metathesis polymerization activity (Sch. Sci., Osaka Univ.) ○YOSHIDA, Daichi; TAKASHIMA, Yoshinori; HARADA, Akira; YAMAGUCHI, Hiroyasu

- 1PB-038[#]** Characterization of microbial poly(γ -glutamic acid) and its polymer complex by solid NMR (Grad. Sch. Eng., Univ. of Fukui) ○MAEDA, Shiro; FUJII, Mikiko; SUGIMORI, Satoshi
- 1PB-039** Photoresponsive malachite green copolymers for introduction of DNA into cells (Dept. of Chem. Eng., NIT, Nara College; ADRES, Ehime Univ.) ○TAKAGI, Shu; HAYASHI, Keita; IWASAKI, Tomoyuki; KAMEDA, Kenji; UDA, Ryoko
- 1PB-040[#]** Preparation of Novel Polyethylene Composites that Can Directly Catch Phosphates in Blood (Grad. Sch. Sci. Tech., Nihon Univ.) ○HONDA, Shun; AOYAGI, Takao
- 1PB-041[#]** Radiation therapy for pancreatic cancer using moluculaly imprinted nanogels imcompolating gold nanoparticles (Grad. Sch. Eng., Kobe Univ.) ○YOSHIDA, Aoi; KIGUCHI, Kentaro; KITAYAMA, Yukiya; AKASAKA, Hiroaki; SASAKI, Ryohei; TAKEUCHI, Toshifumi
- 1PB-042** Design of block copolymer with polymerized transition metal complexes segment and ligand segment for tumor recognition and nanoparticle to promote specific toxicity to tumor. (Grad. Sch. Sci., TUS) ○SHIMANUKI, Akane; IJIRI, Kento; YAHAGI, Yuta; OSAWA, Shigehito; OTSUKA, Hidenori
- 1PB-043[#]** Characteristics of functional polymer membrane with molecular recognition ability and influence of alkyl chain length of host molecule (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○KUDO, Shuto; ANBO, Yuki; SAITO, Yuma; SATO, Kumiko; KIKUCHI, Yasuaki
- 1PB-044[#]** Design of rod-shaped liquid-crystalline molecules having lateral ledges on their mesogens (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KAWAKAMI, Koki; YAZAKI, Sanami; UCHIDA, Soichi; ICHIKAWA, Takahiro
- 1PB-045[#]** Evaluation of the strength and the shape retaining property of the hydrogel functionalized by the constraint method (Grad. Sch. Creative Sci. Eng., Waseda Univ.; Waseda Univ.) ○MIGITA, Kayo; NAGAHAMA, Shunsuke; SUGANO, Shigeki
- 1PB-046[#]** Newly designed self-healable PNIPAAm-based hydrogel with chemical cross-linkability (Grad. Sch. Sci. Tech., Nihon Univ.) ○MASAMOTO, Takumi; AOYAGI, Takao
- 1PB-047** Synthesis of a functional monomer comprising both acetal and nitroxide moieties and its evaluation of the polymerization behavior (Fac. Eng., KAIT) ○NUMAO, Yuta; YMAGUCHI, Jun-ichi; MORIKAWA, Hiroshi
- 1PB-048** Effects of Sensitizer on the Photodegradation of Vulcanized Rubbers Using a Xenon Lamp (Coll. Sci. Eng., Kanto Gakuin Univ.) YAMAMOTO, Keisuke; ○KOUZAI, Hiroaki

Materials Chemistry

Inorganic Materials

- 1PB-051[#]** Particle size control of hydroxyapatite by hydrothermal process (Coll. Eng., Chubu Univ.) ○SUZUKI, Kenta; SAKURAI, Makoto
- 1PB-052[#]** Preparation and properties of plate-shaped hydroxyapatite by urea homogeneous precipitation method (Coll. Eng., Chubu Univ.) ○NAKAYAMA, Ryosuke; SAKURAI, Makoto
- 1PB-053[#]** Preparation and characterization of Tb₄O₇-added Pollucite Phosphor (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○ARUGA, Atsushi; ONOZAWA, Satoshi; KISHIMURA, Hiroaki; MATSUMOTO, Hitoshi
- 1PB-054** Development of high gas barrier thin film forming method with coating polysilazane and using photo irradiation and development to heat resistant organic film (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○KOSEI, Ichikawa; TOMOJI, Ohishi

Composite Materials

- 1PB-055** Corrosion-resistant Coating on Stainless Using Polyvinylbutyral-contained Methyltriethoxysilane Solution (Nagoya Municipal Industrial Research Institute) ○ONO, Satomi; HAYASHI, Tomoko; KISHIKAWA, Nobuyuki; KAWASE, Satoru; ODA, Mitsuo; ISHIGAKI, Yuzo
- 1PB-056** Effect of adding new compatibilizer iPP-PAA with CF/PP composite (Kanazawa Inst. of Tech.) AKITA, Mitsue; YOSHIMURA, Osamu; SASAKI, Daisuke; TAKAMURA, Atsushi; ○TSUKEGI, Takayuki
- 1PB-057** Antimicrobial and functional evaluation of gemini cationic surfactant complex (Kanazawa Inst. of Tech.) ○SAKUMA, Ryo; YOSHIMURA, Osamu
- 1PB-058** Adhesive Hydrogel System by Sewing Hydrogel Surfaces Using Linear Polymer (Fac. Eng., Utsunomiya Univ.) ○TAMESUE, Shingo; ENDO, Takuo
- 1PB-059[#]** Synthesis of alternate layered nanostructures by using inclusion complex formation (Graduate School of Science and Technology, Shinshu Univ.) ○KAWASUMI, Yuuya; TAKIMOTO, Daisuke; MOCHIZUKI, Dai; SUGIMOTO, Wataru
- 1PB-060[#]** Development of Organic/Inorganic Hybrids Inspired by Exoskeleton of Crustacean (Grad. Sch. Eng., The Univ. of Tokyo) ○OKAZAKI, Yasunao; KATO, Takashi

Carbon Materials

- 1PB-061[#]** Synthesis method of nano crystal diamond by arc discharge (Dept.

of Chem. & Bio. Eng., NIT, Hachinohe College) ○ISHIOKA, Yugo; FUKUMATSU, Takahiro; SAITO, Takayuki

- 1PB-062[#]** Hydrolysis and condensation reactions of alkoxy silanes in the presence of the Marimo carbon (RCFM, NIMS) ○FUJII, Kazuko; NAKAGAWA, Kiyoharu; HASHIZUME, Hideo; SHIMOMURA, Shuichi; WAKAHARA, Takatsugu; ANDO, Toshihiro
- 1PB-063[#]** Theoretical study on sodium intercalation into a finite-size graphite (KIT) ○TAKAHASHI, Kohei; YUMURA, Takashi

Low Dimensional Materials

- 1PB-064** Physical Property of Layered Germanane Dispersion by Liquid Exfoliation (EPRI, AIST) ○TACHIBANA, Hiroaki; TODA, Naoya; AZUMI, Reiko
- 1PB-065[#]** Revisiting of Pd Nanoparticle : All-Round Excellence of Porous Pd Nanoplates for Gene-Thermo Combinational Therapy (Chem, Univ of Kwangwoon) ○KANG, Kyunglee; JANG, Hongje
- 1PB-066[#]** Transformation of RuO₂·xH₂O to Ruthenium Oxides Nanoparticles by Solvothermal Method (Grad. Sch. Sci. Technol., Shinshu Univ.) ○MIYAZAWA, Yuka; TAKIMOTO, Daisuke; HIDESHIMA, Sho; MOCHIZUKI, Dai; SUGIMOTO, Wataru
- 1PB-067** Synthesis and electric conductive properties of two-dimensional silicon materials doped with aluminum or gallium (Toyota Central R&D Labs., Inc.) ○OHASHI, Masataka; MATSUZAWA, Yuki; NAKANO, Hideyuki; OHSHITA, Joji

Ionic Liquid

- 1PB-068[#]** Synthesis of Rhenium-Containing Ionic Liquids with Tridentate Chelate Ligands (Grad. Sch. Sci., Kobe Univ.) ○CHO, Sokyong; MOCHIDA, Tomoyuki

Organic and Polymeric Materials

- 1PB-069** Fluorescent pyrene derivatives obtained by heating in super micro porous silicas (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.; Fac. Sci. Tech., Keio Univ.) ○HAYASHI, Kosei; OGAWA, Shumpei; FUJIMAKI, Yasuto; WATANABE, Hiroto; IMAI, Hiroaki
- 1PB-070[#]** 2D porphyrin covalent organic nanosheets for photocatalytic hydrogen evolution (ISIR, Osaka Univ.) ○FAN, Zeyu; NOMURA, Kota; OSAKADA, Yasuko
- 1PB-071** Fabrication of perylene diimide thin films by photo-induced cyclization reactions (Fac. Eng., Iwate Univ.) ○OGAWA, Tomoya; KUZUHARA, Daiki; YOSHIMOTO, Noriyuki
- 1PB-072** Development of Novel Fluorescence Materials Utilized Stilbene Based Dendrimer Complexes (Kobe City Coll. Technol.) ○OHFUCHI, Shin-ichi; NISHIKAWA, Kengo; NEMOTO, Tadamasu
- 1PB-073[#]** Improvement Solubility in Asymmetric Tetraethynylporphyrin Derivatives for Solution-processed Organic Solar Cells (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.) ○OGUMI, Keisuke; NAKAGAWA, Takafumi; OKADA, Hiroshi; MATSUO, Yutaka
- 1PB-074[#]** Surface modification methods of carbon nanotubes with monocationic porphyrin derivatives as dispersant and the interactions (Research Division of Organic Materials, ORIST) ○TAKAO, Yoko; MORIWAKI, Kazuyuki; MIZUNO, Takumi; OHNO, Toshinobu
- 1PB-075[#]** Spectral sensitization using a fullerene derivative for anomalous photovoltaic effect in ferroelectric liquid crystal (Grad. Sch. Eng., Kagawa Univ.) ○MORI, Yuki; SEKI, Atushi; FUNAHASHI, Masahiro
- 1PB-076[#]** Development of Liquid-Crystalline Perylene Tetracarboxylic Bisimide Derivative Bearing a Crown Ether as an Ion-Conductive Unit (Grad. Sch. Eng., Kagawa Univ.) ○TAGA, Taiki; FUNAHASHI, Masahiro
- 1PB-077[#]** Synthesis of Liquid Crystalline Perylene Bisimide Derivatives with Cyclotetrasiloxane Rings and an Imidazolium Salt (Grad. Sch. Eng., Kagawa Univ.) ○OKAMOTO, Kosei; FUNAHASHI, Masahiro

Applications of Materials

- 1PB-079[#]** mechanooptical behavior of cholesteric liquid crystal elastomers (Coll. Life Sci., Ritsumeikan Univ.) ○YUASA, Kyoko; KIMURA, Seiya; KU, Kyosun; AKAMATSU, Norihisa; SHISHIDO, Atsushi; HISANO, Kyohei; TSUTSUMI, Osamu
- 1PB-080[#]** Control of Intramolecular Excimer Emission by Dimerization of Phosphorescent Cyclometalated Platinum Complexes (Osaka. Pref. Univ. Coll. Tech.; Grad. Sch. Eng., Osaka Pref. Univ.) ○TSUJIMOTO, Hidetaka; INOUE, Kouki; YAMASHITA, Kouhei; HOTEI, Junichi; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PB-081** Development of copper fine wiring formation technology on polyimide film in the atmosphere by laser irradiation and micro-contact-printing using of glyoxylic acid copper complex (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○UETSUKI, Akira; OHISHI, Tomoji
- 1PB-082** Influence of Alkaline Electrolyte Condition for Memory Characteristics of Nickel Hydroxide Positive Active Material (Coll. Sci. Eng., Kanto Gakuin Univ.) ○SASAKI, Yasushi; YAMASITA, Tsugito; MATSUI, Kazunori
- 1PB-083[#]** Core/shell-structured quinone derivatives/graphene composites for

high performance organic rechargeable battery (Grad. Sch. Environmental Studies, Tohoku Univ.) ○OIZUMI, Kotaro; KOBAYASHI, Hiroaki; TOMAI, Takaaki; HONMA, Itaru

1PB-084 Charge-Discharge Performance of Organic Rechargeable Batteries Using Quinone-type Electron Acceptors DCNQI (Osaka Electro-Communication Univ.) ○FUJITA, Kazuhiko; AONUMA, Shuji

1PB-085[#] Synthesis of Functionalized Perylene Bisimides for Optical Sensing Based on Their Electron-Accepting Feature (Grad. Sch. Eng., Osaka Pref. Univ.) YOSHIKAWA, Yusuke; ○MAEDA, Takeshi; YAGI, Shigeyuki

1PB-086[#] Synthesis of 4,7-diaryl-1,2,3-triazolopyridine derivatives and their application for immunostaining (Grad. Sch. Eng., Kyushu Sangyo Univ.) ○GEJI, Yasuhito; MATSUOKA, Yohei; FU, Wenqiang; NISHI, Kentaro; HUI, Yan; MIZUKI, Keiji; YAZUMI, Takashi; KIYAMA, Ryoiti; ISOBE, Shin-ichiro

1PB-087 Development of RGB flexible color filter on PET film using latent pigment and alkoxide modified acrylic resin (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○TAKAHASHI, Karin; OHISHI, Tomoji

1PB-088 Adhesive properties of vegetable oil based network polymers by reversible Diels-Alder reaction (ORIST) ○INOUE, Yohtarō; TACHI, Hideki

1PB-089 Investigation of technology to give gas barrier characteristics of polysilazane-derived SiO₂ thin films on CNF film composed of organic resin using photoirradiation. (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○ISONO, Satoki; OHISHI, Tomoji

1PB-090[#] Versatile chemical handling to confine radioactive cesium as stable inorganic crystal (AMCP, NIMS) NGUYEN DUY, Quang; EBA, Hiromi; ○SAKURAI, Kenji

1PB-091[#] Environmental impact assessment in manufacturing bamboo powder adding ABS resin (Kanto Gakuin Univ.) ○OI, Yasuhiro; SANO, Keiichiro; KOUZAI, Hiroaki; FUKAI, Akihisa; KOSUGI, Nobuaki; YAGITA, Hiroshi

1PB-092 Preparation and Properties of Fluoroalkyl End-capped Oligomer/Cellulose Nanofiber/Alkoxyxilanes Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○ENDO, Yui; SAWADA, Hideo

1PB-093 Lower Critical Coagulation Characteristic of Fluoroalkyl End-capped Acrylic Acid Oligomer/Alkyl Modified Cellulose Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○SATOU, Ryota; SAWADA, Hideo

1PB-094 Fabrication of Modified Surface Possessing an Oleophobic/Hydrophilic Characteristic Treated with Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○AOMI, Yuta; SAWADA, Hideo

1PB-095 Preparation and Property of Fluorinated Oligomer/Poly (vinyl alcohol) Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○YASUTA, Masato; KATAYAMA, Shinsuke; SAWADA, Hideo

Resources Utilization Chemistry

1PB-097[#] Olefin metathesis of algal polyunsaturated fatty acids (NIT, Kumamoto College) ○OSHIMA, Kenji; TOMIZAWA, Satoshi

1PB-098 Evaluation of Porous Structure and Separability of Hen Eggshell Membrane (NIT, Fukushima College) ○SUZUKI, Mayuko; HAGIRI, Masahide

1PB-099[#] Synthesis and electroanalysis of anode electrodes consisting of silicon oxide and carbon Nanotube (Coll. Sci. Eng., Kanto Gakuin Univ.; Meikai Univ.; Dept. of Chem. & Bio. Eng., NIT, Ube College) ○TOMONO, Kazuaki; KUMAMOTO, Taiga; KIKUCHI, Syun; OGOMA, Takayoshi; KOUYAMA, Yuuki; TAMAKI, Yoshinori

1PB-100 Catalytic supercritical water gasification of food waste (RCPT, AIST; Grad. Sch. Eng., Iwate Univ.) ○SATO, Osamu; MURAMATSU, Natsumi; YAMAGUCHI, Aritomo; SHIRAI, Masayuki; MIMURA, Naoki

1PB-101[#] Removal of Cd from midgut glands of scallop (NIT, Hachinohe College) SHIRASAWA, Non; FUKAMATSU, Takahiro; ○SAITO, Takayuki

1PB-102 Selective Recovery of Iron by Phosphoric Acid Leaching of Copper Smelter Slag (NIT, Fukushima College) ○HAGIRI, Masahide; TADA, Kotone; ONO, Takumi; HONDA, Kazufumi; UCHIDA, Shuji

1PB-103 Synthesis of Zeolite and Layered Double Hydroxide from Electric Furnace Slag (Sch. Eng., Tokyo City Univ.) ○EBA, Hiromi; ANDO, Maho; YAMAGUCHI, Yuto

Energy and Related Chemistry, Geo and Space Chemistry

1PB-105 Application of ferrous alloy plated electrode on Raney alloy as a platform to alkaline water electrolysis (Grad. Sch. Eng., Utsunomiya Univ.) ○YOSHIIHARA, Sachio; KONNO, Nazuki

1PB-106[#] Fabrication of Porphyrin-modified ITO/PEN Film Electrode for Photoelectrochemical Redox Flow Battery (Graduate School of Science and Technology) ○SUZUKI, Kentaro; NAGATA, Toshi

1PB-107 Preparation of bis-methanofullerene derivatives by the reaction of regioselective addition of fullerene molecule (ORIST) ○ITO, Takatoshi; IWAI, Toshiyuki; MATSUMOTO, Fukashi; SUMINO, Shuhei; MORIWAKI, Kazuyuki; OHNO, Toshinobu

1PB-108 Synthesis of Triphenylamine Derivatives for Perovskite Solar Cells -Effect of substituents on triphenylamine moiety- (AIST) ○FUNAKI, Takashi; ONOZAWA-KOMATSUZAKI, Nobuko; MURAKAMI,

Takuro; KOGO, Atsushi; CHIKAMATSU, Masayuki

1PB-109 Synthesis and catalytic water oxidation activities of base metal complexes with conjugated macrocyclic ligands (Grad. Sch. Sci. and Technol., Niigata Univ.) ○TAKAHASHI, Daiki; TSUBONOUCHI, Yuta; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki

1PB-110 Hydrogen generation from the reaction between H₂O and mechano-synthesized Si particles (Grad. Sch. Sci., Hiroshima Univ.; N-BARD, Hiroshima Univ.) ○OHTA, Haruhisa; SAITOU, Ken-ichi

1PB-111 Dependence on non-equilibrium plasma reactor for conversion of methane and carbon dioxide under low emission (Grad. Sch. Eng., Saitama Inst. of Tech.) ○SATO, Shintaro; TSUTSUMI, Masahiro; ARITANI, Hirofumi; OGATA, Atushi

Environmental and Green Chemistry

1PB-113[#] Evaluation heavy metal driven co-selection of antibiotic resistance E. coli in river water (Musashino University Faculty of Engineering) HINO, Shouta; ○MANAGAKI, Satoshi

1PB-114[#] Catalytic Dehalogenation of Aromatic Halides in 2-Propanol: Comparison between Brominated and Chlorinated Compounds (RIEF, AIST) ○UKISU, Yuji

1PB-115[#] Treatment of Organic Pollutants in Wastewater by Ozone Micro-bubbles and Cyclodextrin (Env.Sci&Eng., Univ of Taiwan Tunghai) ○XIE, Fuyin; SUNG, Menghau

1PB-116 Investigation of specific separation of arsenic from acid mine drainage with acidophilic bacteria-derived protein (Hokkaido Research Organization) ○KARIYA, Ryo; NOROTA, Susumu; OTSUKA, Hideyuki

1PB-117 Experiment to synthesize Fulvic-iron complex in order to enrich the Osaka Bay using spa in Osaka Prefecture Kawachinagano (Osaka Prefectural Naganokita High school) ○SHIMIZU, Taiga; IWANE, Hiroki

1PB-118 Evaluation of genotoxicity of effluent of sewage treatment plant by the *umu test* (Fac. Eng., KAIT) ○SAKAMOATO, Shuya; TAKAMURA, Takeji; ODA, Yoshimitsu

1PB-119[#] Withdrawn

1PB-120 Concentration of Halogenated Volatile Organic Compounds Contained in the Atmosphere in Tokyo (Tokyo Metropolitan Government Bureau of Environment) ○ISHII, Marina; WATANABE, Kenichi; YOSHIZUMI, Tokiko

1PB-121 Immobilization of Lead in Fly Ash by Inorganic Compound (Nagoya Municipal Industrial Research Institute) ○HAYASHI, Tomoko; ONO, Satomi

1PB-122 Development of Formaldehyde/Palladium Free Electroless Copper Mirror Plating with Reducing Sugar and Ground Iron (Kaisei Senior High School) ○TAKEUCHI, Yuta; SHIMIZU, Yukoh; MIYAMOTO, Kazuhiro

1PB-123[#] Retention behaviors of non-steroidal anti-inflammatory drugs on green HPLC using aqueous propylene glycol as the mobile phase (Grad. Sch. Industrial Tech., Nihon Univ.) ○OZAWA, Yuuri; AIDA, Saki; TAKEDA, Keita; ASAMOTO, Hiromichi; SAITOH, Kazunori; NAKAGAMA, Tatsuro

1PB-124 Chemical Modification of β -1,3-Glucan by Isocyanate (Sci. Eng., Univ. of Tsukuba) ○OZAWA, Itsuki; KAWASHIMA, Hidehisa; KIJIMA, Masashi

1PB-125 Investigation of dissolved hydrogen with a iron-Rh/C dehydrogenation in a sulfuric acid aqueous solution (Grad. Sch. Comprehensive Scientific Research, Pref. Univ. of Hiroshima) ○KAWAI, Yoshiki; MITOMA, Yoshiharu; KATAYAMA, Yumi

1PB-126[#] Study of the ability of phase transfer catalyst of the styrene-based polymer having a hexaalkyl guanidinium salt (Sch. Eng., Tokyo Denki Univ.) ○TANAKA, Satomi

1PB-127[#] Characteristics of Algal Plastic Synthesized by Mixed Acylation of Paramylon (Univ. of Tsukuba, ABES) ○TANAKA, Teruhiko; KAWASHIMA, Hidehisa; KIJIMA, Masashi; YAMASHIRO, Midori; TANAKA, Shukichi; IJI, Masatoshi; WATANABE, Makoto M.

1PB-128[#] N-type semiconductor properties of diphenylhydrazine/carbon nanotube organic thermoelectric materials sealed with poly(N-vinyl-2-pyrrolidone) (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi; Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○HATA, Shinichi; TOMOTSU, Jin; SHIRAI, Yukihide; TOSHIMA, Naoki

1PB-129 Regioselective Carboxylation of 2-Naphthol under Supercritical Carbon Dioxide using sodium carbonate as a Catalyst (Grad. Sch. Industrial Tech., Nihon Univ.) ○ISHIZAWA, Shotaro; FURUKAWA, Shigeki

1PB-130 Withdrawn

1PB-131 Development of photocatalytic hydrogenation using saccharides (Grad. Sch. Integrated Arts Sci., Kochi Univ.) ○IKEUCHI, Kazuma; ONDA, Ayumu; YANAGISAWA, Kazumichi; IMAMURA, Kazuya

1PB-132[#] Study on accumulation mechanism of selenium in unicellular alga by X-ray analyses (Sch. Eng., Tokyo Denki Univ.) ○HOKURA, Akiko; KUROKO, Ryota

Sunday, March 17, AM

(10 : 00~11 : 30)

Education and History of Chemistry

- 2PA-001** Development of half-cell contacting Daniel battery that solidified electrolytic solution with agar (Hokkaido Univ. of Educ. Sapporo) ○HAMAYA, Naruki; TAGUCHI, Satoshi
- 2PA-002** The Development of Interdisciplinary GSC Learning Programs on Sops (Toho Univ.) ○ISHIGUCHI, Takashi; IMAI, Izumi
- 2PA-003** Development of experimental teaching materials in inorganic chemistry with sulfuric acid silica gel (Fac. Sci., TUS) ○KASAI, Yuuka; INOUE, Masayuki
- 2PA-004** Method for sale and preservation of oils, avoiding photo-oxidation (Grad. Sch. Sci., TUS) ○KOBAYASHI, Junya; INOUE, Masayuki
- 2PA-005** Experiments to learn about the degradation of polyactic acid (Grad. Sch. Sci., TUS) ○SEKINE, Ayaka; INOUE, Masayuki
- 2PA-006** Synthesis of ester acetates with acetylsalicylic acid (Fac. Sci., TUS) ○KURODA, Ryohei; INOUE, Masayuki
- 2PA-007** In-column esterification reaction using sulfuric acid silica gel (Grad. Sch. Sci., TUS) ○MORI, Ryosuke; INOUE, Masayuki
- 2PA-008** Microscale experiment to synthesize azo dye from benzene with sulfuric acid silica gel (Grad. Sch. Sci., TUS) ○NAKAYAMA, Seito; INOUE, Masayuki
- 2PA-009[#]** Development of the teaching materials for generation and observation of aerosol: Assessment of the teaching materials by practicing at senior high school classes (Grad. Sch. of Edu., Tokyo Gakugei Univ.) ○SASAOKA, Masaya; NAKANO, Yukio; WATANABE, Kosuke; UCHINO, Mana; NARIKAWA, Kazuhisa; SAKAI, Hideo
- 2PA-010** The plating of copper plate under mild conditions and induction to bronze plating (Grad. Sch. Sci., TUS) ○SUZUKI, Takahiro; INOUE, Masayuki
- 2PA-011** Evaluation of presentation software in general chemistry class at college of technology (Kobe City Coll. Technol.) ○SATO, Hiroto; FUKUMOTO, Kozo; OSHIO, Aiko
- 2PA-012** Development of teaching materials on risk education using food additives (Grad. Sch. Edu., Ehime Univ.) ○SHIGEKAWA, Hiroki; OHASHI, Atsushi
- 2PA-013[#]** Studying preparation conditions of polyvinyl alcohol electrolyte membrane containing sulfosuccinic acid for use as a teaching material of fuel cell teaching material (Grad. Sch. of Edu., Tokyo Gakugei Univ.) ○HASUO, Shintaro; IKUO, Akira; OGAWA, Haruo
- 2PA-014** Practical Evaluation of a Teaching Materials on the Color of Substance Using Photochromism (Hyogo Univ. of Teacher Educ.; Kishiwada Municipal Yagi Elementary School) ○YAMAGUCHI, Tadatsugu; OZEKI, Toru; NATSUMEDA, Keiichi
- 2PA-015** Attempt to detect monoglyceride using N-hydroxyphthalimide derivative (Dept. Sci., Naruto Univ. of Edu.) ○NARIMITSU, Junya; TACHIKAWA, Koki; HIROTA, Masayoshi; MUNEGUMI, Toratane
- 2PA-016** Development of Simple Preparation Method of Thermochromic Ink Which Can Be Used as Scientific Teaching Materials (Hyogo Univ. of Teacher Educ.) ○MIURA, Yujiro; OZEKI, Toru; YAMAGUCHI, Tadatsugu
- 2PA-017** Development of Chemical Teaching Materials Using Salicylic Acid Derivatives (Hyogo Univ. of Teacher Educ.; NIT, Niihama College) ○SUMIDA, Rina; NAKAJIMA, Syuhei; OZEKI, Toru; KOWADA, Yoshiyuki; TAKAMI, Shizuka; YAMAGUTHI, Tadatsugu
- 2PA-018** Withdrawn
- 2PA-019** Development of bio batteries and self-driven coulometry devices as teaching materials (Dept. of Chem. Eng., NIT, Nara College; NIT, Nara College) ○MIKI, Kojiro; TANAKA, Tasuku; TADA, Kanae; KITAMURA, Makoto; NAOE, Kazumitsu
- 2PA-020** Extraction of Radioactive Species from Underground Water - Research Using Zeolite and PAC (Tokyo Gakugei Univ.) ○ONISHI, Kazuko; KOBAYASHI, Yota; KAMATA, Masahiro
- 2PA-021** Development of Experimental Program for Pre-service Teacher Education: Understanding Reaction Rate on Decomposition of Hydrogenperoxide (Grad. Sch. of Edu., Tokyo Gakugei Univ.) ○HOSOE, Takashi; IKUO, Akira; KOKUSEN, Hisao; OGAWA, Haruo
- 2PA-022** Teaching materials of molecular models helping students to find quantitative relations between the chemical species in acid-base reaction (Kyoto Univ. of Educ.) ○MUKAI, Hiroshi; YAMAMOTO, Takehito
- 2PA-023** Impact of Student's Motivation on Their Academic Performance in the 1st Year Chemistry Course at a Medical School (Kindai Univ.) ○OKADA, Kiyotaka; MATSUMURA, Haruo; TAKECHI, Kaoruko; SHIRAIISHI, Kouhei; KAJI, Hiroshi
- 2PA-024** Experiment classes using various fluorescent materials (NIT, Tsuyama College) ○HIROKI, Kazuaki
- 2PA-025** What's chemistry? -Synthesis, separate and analysis (Sohdosyakikaku) ○OHASHI, Kazutaka
- 2PA-026** The production of a card game for studying organic synthetic chemistry (Coll. Sci. Tech., Nihon Univ.) ○ITO, Kenichi; ABE, Rina

Physical Chemistry -Structure-

- 2PA-029[#]** Direct Optical Measurements of $C_3H_4^+$ and $C_3H_3^+$ Cations in Solid Ar (NSRRC) ○WU, Yu-jong; CHIN, Chih-hao; LIN, Meng-yeh; HUANG, Tzu-ping
- 2PA-030[#]** The thickness control of organic thin films for the evaluation of surface enhanced infrared absorption (Fac. Edu., Hiroshima Univ.) ○IKUTA, Sachi; SUZUKI, Yushi; SHIMADA, Toru
- 2PA-031[#]** Hyperfine structure of A-X electronic transition for IBr (Fac. Eng., Tokyo Polytechnic Univ.) ○SAKAMAKI, Arina; NISHIMIYA, Nobuo; TAMAKI, Ryota
- 2PA-032** Spin polarization NMR chemical shifts of heavy atoms in aqueous solutions and in chelate compound solutions (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KUWAHARA, Daisuke; SATO, Tatsuki; TASAKI, Kenta; NAKAGAWA, Naoya
- 2PA-033** Internal structure and liquid crystal orientation changes of polybutadiene / 5CB composite by UV irradiation (Coll. Sci. Eng., Kanazawa Univ.) ○ANNEN, Masashi; IDA, Tomonori; AMEMORI, Shogo; MIZUNO, Motohiro
- 2PA-034[#]** Anhydrous Proton Conduction of Alginic Acid-Imidazole Composite (Coll. Sci. Eng., Kanazawa Univ.) ○KAJIMOTO, Sho; AMEMORI, Shogo; MIZUNO, Motohiro
- 2PA-035** Synthesis and Structures of Bridged Alkylpyridinimine Derivatives (Sch. Eng., Tokyo Denki Univ.) ○IWASAKI, Naoya; KIDO, Akiko; SUZUKI, Takayuki

Physical Chemistry -Properties-

- 2PA-037** Prediction of Solubilities of Inclusion Complexes Using Dispersion-Corrected Density Theory (Fac. Biology-Oriented Sci. Tech., Kindai Univ.) ○FUJISAWA, Masao; TAGOMORI, Hinako; KIMURA, Takayoshi; IKEDA, Hirohito
- 2PA-038** Mechanism for local temperature fluctuations of polymer aqueous solutions caused by natural convection cooling (Grad. Sch. Sci., Osaka Univ.) ○YAMASHITA, Ryunosuke; KANEKO, Fumitoshi
- 2PA-039** Partially ordered state and complex phase behaviors in ionic liquid (C_{4mim})PF₆ -Heat capacity measurement- (Fac. Sci., Fukuoka Univ.) ○KOIKE, Takushi; IDEGOMORI, Teruya; WATANABE, Keisuke; NEGITA, Keishi
- 2PA-040** Organofluorine Compounds-Specific Molecular Structure and Interaction Can be Understood by Phase Transition Temperatures (ICR, Kyoto Univ.) ○SHIMOAKA, Takafumi; HASEGAWA, Takeshi
- 2PA-041** Dielectric measurements under transient shear flow in nematic phase of liquid crystal 8CB. (Fac. Sci., Fukuoka Univ.) ○KOGA, Masashi; NEGITA, Keishi
- 2PA-042** New Rotator Crystals Consist of Divalent DABCO Ion (International Coll. Arts Sci., Yokohama City Univ.) ○SEKI, Takahiro; HIRAKAWA, Satoru; HONDA, Hisashi
- 2PA-043** Ion Shape Dependencies on Motional Mode in Solid Phase of $[NEt_xMe_{3-x}R][BEt_3R']$ ($R = Pr, Bu; R' = Me, Et; x = 1, 2$) (International Coll. Arts Sci., Yokohama City Univ.) ○NAGAI, Katsumi; KOTANI, Yuka; HONDA, Hisashi
- 2PA-044** Pattern formation of tetrahydrofuran clathrate hydrate growing in silica micro beads (Sch. Sci. Eng., Meiji Univ.) ○NAGASHIMA, Kazushige; TOKUMARU, Masaya
- 2PA-045** population change of ice crystals in salt water under temperature cycling (Dept. of Sci. Tech., Meiji Univ.) ○UCHIDA, Tomohiro; NAGASHIMA, Kazushige
- 2PA-046** Camphor crystal behavior in storm glass under cyclic temperature change (Sch. Sci. Eng., Meiji Univ.) ○ODAGIRI, Takumi; NAGASHIMA, Kazushige
- 2PA-047** Effects of Alkyl Chain Length on the Reversible Thin-film formation of perfluoro borate (NIT, Yonago College) ○TANAKA, Susumu; MATSUNAMI, Takahiro; TENMA, Takumi
- 2PA-048[#]** SAXS profiles for the ordered structure of polymer-capped gold nanorods induced by an external electric field (Aichi Univ. of Educ.) ○FUKAGAWA, Toshiaki; KUMAGAI, Mana; TAJIMA, Ryo; YAMAGUCHI, Yoshihiro; HINO, Kazuyuki; HATAKEYAMA, Yoshikiyo
- 2PA-049[#]** Synthesis, structure and magnetic properties of a cobalt complex with extended-tetrathiafulvalene dicarboxylate ligand (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○NAKAJIMA, Ryota; ZHOU, Biao
- 2PA-050** Physical properties of radical salts of (S,S)- and (±)-DM-MeDH-TTP (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○MIYAMOTO, Sho; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki
- 2PA-051** Structure and properties of new Schiff base type TTF-metal complex [Cu(TTF-Salphen)] (Coll. Sci., Ibaraki Univ.) ○TAUCHI, Daiki; KANESAKA, Aoba; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki
- 2PA-052** Synthesis, Structures, Properties and Field-effect Transistor Performances of Neutral Metal-dithiolenes Complexes Fused with Two Dimethoxybenzene moieties (ISSP, The Univ. of Tokyo; Fac. Sci., TUS) ○TAKAHASHI, Yusuke; ○YOKOMORI, So; UEDA, Akira; ENOMOTO, Masaya; MORI, Hatsumi
- 2PA-053** Physical Properties of New Organic Superconductor (MTDT-

- TTP)₂BF₄ Under Pressure (Grad. Sch. Sci., TMU) ○WADA, Tomoya; NIKAIIDO, Shun; YOSHINO, Harukazu; YAMADA, Jun-ichi; KODAMA, Takeshi; KIKUCHI, Koichi
- 2PA-054** Fabrication of OLED based on circularly polarized light emissive chiral peryleneimide derivatives (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KANESAKA, Aoba; MURATA, Ryosuke; HOSOYA, Tomomasa; MIZOKURO, Toshiko; AZUMI, Reiko; YAMAGUCHI, Akira; WATANABE, Kouhei; IMAI, Yoshitane; NISHIKAWA, Hiroyuki
- 2PA-055** Development of new multi-functional materials using TTF derivatives substituted with nitrogen-containing heterocycles (Fac. Sci., Osaka Pref. Univ.) ○NISHIMURA, Tomoki; YAMAGUCHI, Minayo; SAKAMAKI, Daisuke; FUJIWARA, Hideki
- 2PA-056** Preparation and Magnetic Properties of Piezoelectric Coordination Polymers (Fac. Sci. and Technol., Seikei Univ.) ○FUJITA, Wataru; IDA, Iona; YAMAGUCHI, Akira; SUMIYAMA, Akihiko
- 2PA-057** Magnetic-elastic multiferroics in the organic-inorganic layered perovskite type compound (Fac. Sci., Hiroshima Univ.) ○ISHINUKI, Tatsuya; TSUCHIYA, Naoto; AOKI, Saya; NAKAYAMA, Yuki; NISHIHARA, Sadafumi; INOUE, Katsuya
- 2PA-058** Pressure effect on magnetic behavior in a layered manganese-radical coordination framework [Mn₂(NNIm)₃]BF₄ (Fac. Sci., Hiroshima Univ.) ○IZUMI, Yuuta; LECOURT, Constance; MARYUNINA, Kseniya; NISHIHARA, Sadafumi; LUNEAU, Dominique; INOUE, Katsuya
- 2PA-059** Analysis of microscopic behavior on the elastic crystal consisting of bisthierylbenzene derivative by multiphoton excited fluorescence microscopy (Fac. Sci., Yamaguchi Univ.) ○KOGA, Satoshi; HAYASHI, Shotaro; AKUTAGAWA, Tomoyuki; SUZUKI, Yasutaka
- 2PA-060** C60, C70 in electron donating solvents: Excitation wavelength dependence of the ultrafast dynamics (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TAKAHASHI, Yosuke; SUGIHARA, Keita; NAGASAWA, Yutaka
- 2PA-061** Development of photofunctional materials based on the D-A dyads containing a diazafluorenone part (Grad. Sch. Sci., Osaka Pref. Univ.) ○MATSUMOTO, Yuki; SAKAMAKI, Daisuke; FUJIWARA, Hideki
- 2PA-062** Excited state dynamics in thiophene / phenylene co-oligomer (TPCO) crystals revealed by femtosecond UV pump-visible probe spectroscopy (Grad. Sch. Sci. & Tech., NAIST) ○YOSHIDA, Wataru; OKOCHI, Hiroto; KATSUKI, Hiroyuki; YANAGI, Hisao
- 2PA-063** Theoretical study on the intermolecular configuration dependences of the open-shell characters and third-order nonlinear optical properties for phenalenyl dimers (Dept. of Chem. Eng., NIT, Nara College) ○YONEDA, Kyohei; YOSHIDA, Wataru; NAKANO, Masayoshi
- 2PA-064** Mobility Analysis of Imidazole Impregnated in Organic Acid using Molecular Dynamics Simulation (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SUETAKE, Toshiya; SUGISAWA, Hiroki; IDA, Tomonori; MIZUNO, Motohiro
- 2PA-065** Solid-State Isomerization and Distinct Photoluminescence Behavior of Spiropyran by Shear Stress (Fac. Eng., Sanyo-Onoda City Univ.) ○EGUCHI, Jun; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 2PA-066** Effects of Anion and Substituent on Photochromic Crystals Containing Cationic Spiropyran (Grad. Sch. Eng., Sanyo-Onoda City Univ.; Fac. Eng., Sanyo-Onoda City Univ.) ○ASON, Morihiro; FUNASAKO, Yusuke; INOKUCHI, Makoto
- ### Physical Chemistry -Chemical Kinetics and Dynamics-
- 2PA-069** Rate Constants for the Gas-phase OH Radicals Reactions of CFCI=CFCI and CHF=CHF: Comparison of the Results of Computational Investigations and Experimental Measurements (ISC, AIST) ○UCHIMARU, Tadafumi; TOKUHASHI, Kazuaki; TAKIZAWA, Kenji; KONDO, Shigeo; MIZUKADO, Junji
- 2PA-070** Development of a simplified measurement system for femto-second transient absorption spectrum using photonic crystal fiber (Graduate School of Science and Engineering, Univ. of Toyama) ○NIINUMA, Tomohiro; IWAMURA, Munetaka; NOZAKI, Koichi
- 2PA-071** Computational Studies on the Reactions of HCNN with O₂, CO and C₂H₂ (ETRI, AIST) ○TSUCHIYA, Kentaro
- 2PA-072** Ultrafast proton transfer reaction dynamics in pyrenol derivative-triethylamine system (Grad. Sch. Eng. Sci., Osaka Univ.) ○FUJIMOTO, Shingo; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 2PA-073** Photochromic reaction of indigo derivatives : Effect of electron donating substituents (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TANI, Shuntaro; TAKESHITA, Akimasa; SUGIHARA, Keita; NAKAGAWA, Hirofumi; NAGASAWA, Yutaka
- 2PA-074** Electron transfer reactions of heterocyclic aromatic compounds driven by photoionization reaction (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAWAKAMI, Tomomi; KOGA, Masafumi; IDE, Naoki; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 2PA-075** The suppression of molecular motion by glass transition of trehalose, a bioprotective substance (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TOYO, Atsushi; MATSUOKA, Tetsuro; MATSUMOTO, Akifumi; NAGASAWA, Yutaka
- 2PA-076** Evaluation of polymer solids exhibiting microscopic phase-separation by means of long-time single-molecule tracking based on one-color fluorescence switching (Grad. Sch. Eng. Sci., Osaka Univ.) ○FUNAOKA, Misato; HANASAKI, Itsuo; ITO, Syoji; TAKEI, Satoshi; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi
- 2PA-077** Primary dynamics of photosynthetic process in the reaction center of green sulfur bacteria (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SUGIHARA, Keita; HOASHI, Masataka; AZAI, Chihiro; NAGASAWA, Yutaka
- 2PA-078** Contribution of the S₁-S₁ Annihilation and Photothermal Effect to the Cycloreversion Reaction in Diarylethene Nanoparticles (Grad. Sch. Eng. Sci., Osaka Univ.) ○KURATA, Tomoya; SOTOME, Hikaru; JIA, Su; JONATHAN, Piard; REMI, Metivier; NAKANISHI, Keitaro; MIYASAKA, Hiroshi
- 2PA-079** Solvation dynamics of betaine dye upon polarization decline accompanying photoexcitation (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○IWAMOTO, Akira; YONEDA, Yusuke; MIYASAKA, Hiroshi; NAGASAWA, Yutaka
- 2PA-080** Magnetic field effect on fluorescence from T-T annihilation in 9,10-diphenylanthracene single crystal (Grad. Sch. Sci., Eng., Saitama Univ.) ○HASEGAWA, Kiichi; YAGO, Tomoaki; WAKASA, Masanobu
- 2PA-081** Ultrafast nonradiative deactivation process of Indophenol Blue (Coll. Life Sci., Ritsumeikan Univ.) ○HIDAKA, Tsubasa; SUGIHARA, Keita; TANI, Shuntaro; MATSUMOTO, Akihiko; NAGASAWA, Yutaka
- 2PA-082** Multiphoton emission enhancement of single multichromophoric molecules near plasmonic nanostructure (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○DARMAWAN, Yoshua Albert; YAMAUCHI, Mitsuaki; SADAHIRO, Masuo
- 2PA-083** Transient metal complex formation of photochromic spiropyran (Coll. Life Sci., Ritsumeikan Univ.) ○KASAI, Yusuke; TANI, Shuntaro; NAGASAWA, Yutaka
- 2PA-084** Verification of polarization-entangled photons in the emission from a single CdSe/CdS quantum dot (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HANASE, Yuki; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-085** Transient absorption spectroscopy using near UV 10 fs pulse laser to clarify photo reaction process on 2-nitrobenzyl ester (Fac. Eng., Kanagawa Univ.; Fac. Eng., Kanagawa Univ.) ○HASHIMOTO, Sena; HAMADA, Kenta; FUJITA, Hiroto; ONO, Yuta; CHIKARAISHI, Noriko; IWAKURA, Izumi; YAMAGUCHI, Kazuo
- 2PA-086** Exciton Dynamics of CsPbX₃ Nanocrystals - Dye Molecule Hybrid Systems (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SUKEYOSHI, Takuya; KATAYAMA, Tetsuro; TAMAI, Naoto
- 2PA-087** Excited state dynamics of *cis*-fixed indigo derivatives (Coll. Life Sci., Ritsumeikan Univ.) ○TAKESHITA, Akimasa; TANI, Shuntaro; NAKAGAWA, Hirofumi; YONEDA, Yusuke; MIYASAKA, Hiroshi; NAGASAWA, Yutaka
- 2PA-088** Exciton Dynamics and Reaction Efficiency of the Hybrid System of CdSe Nanorods - Diarylethene Derivatives (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SHIBAYAMA, Daiki; USUI, Yuta; KATAYAMA, Tetsuro; MORIMOTO, Masakazu; IRIE, Masahiro; TAMAI, Naoto
- 2PA-089** Carbonization of polyimide by the irradiation with XeCl excimer laser (Osaka Sangyo Univ.) ○KUSABA, Mitsuhiro; OHTA, Hiroki; NIGO, Fumitaka; CHIKAMOCHI, Takahide; TOKUNAGA, Takeshi; KONDO, Kotaro; NISHIUCHI, Mamiko; SAKAKI, Hironao; KIRIYAMA, Hiromitsu; HASHIDA, Masaki; SAKABE, Shuji
- 2PA-090** Change of electrochemical impedance spectra of electrodeposited actinide compounds (NSEC, JAEA) ○OUCHI, Kazuki; OTOBE, Haruyoshi; KITATSUJI, Yoshihiro
- 2PA-091** Decoherence of the electronic excited state of a chlorophyll derivative measured by femtosecond photon echo technique. (Coll. Life Sci., Ritsumeikan Univ.) ○MASAOKA, Yuto; SUGIHARA, Keita; KINOSHITA, Yusuke; NAGASAWA, Yutaka; TAMIYAKI, Hitoshi
- 2PA-092** Vesicles containing different DNA generate competitive self-reproduction? (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○HIRATA, Yuiko; MATSUO, Muneyuki; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 2PA-093** Single-Particle Observation of Ruthenium Dye-Adsorbed Mesoporous Silica: Relationship between Intra-Pore Diffusion and Photocatalytic Activity (Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.; Waseda Univ.; Fac. Sci. and Technol., Seikei Univ.) ○WATASE, Tatsuya; SOHMIYA, Minoru; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 2PA-094** Efficient Optical Trapping of Polymer Beads by Liquid/Liquid Interface Assisted Optical Tweezers (Grad. Sch. Sci., Osaka City Univ.) ○YAMANISHI, Daiki; NAKA, Shota; SHOJI, Tatsuya; TSUBOI, Yasuyuki
- 2PA-095** Fluorescence Imaging of Structural Changes of Soft Crystals Induced by Mechanical Stimulus (Sch. Sci., Kobe Univ.; Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.; Grad. Sch. Eng., Yokohama Natl. Univ.) ○YAMASHITA, Maho; NAGAI, Sayaka; KOBORI, Yasuhiro; ITOU, Suguru; TACHIKAWA, Takashi
- 2PA-096** Assembly Formation of Polymer Nanoparticles by A Novel Optical Tweezer and Wavelength Dependence (Grad. Sch. Sci., Osaka City Univ.) ○KOMOTO, Sawa; SHOJI, Tatsuya; NAGAI, Tatsuya; UENOBO, Yuki; SAULIUS, Juodkazis; TSUBOI, Yasuyuki
- 2PA-097** Laser two-photon ionization of agrochemical molecules in the presence of cyclodextrin (Grad. Sch. Eng., FUT) ○MINOSAKI, Chika; ASADA, Rina; HARA, Michihiro
- 2PA-098** Quantitative evaluation of optical trapping stiffness on nanostructured surfaces (Grad. Sch. Sci., Osaka City Univ.) ○OGITA, Shuhei;

SHOJI, Tatsuya; LINKLATER, Denver; JUODKAZIS, Saulius; KATO, Fumiya; MURAKOSHI, Kei; TSUBOI, Yasuyuki
2PA-099[#] Fabrication and Characterization of a Dye-Sensitized Solar Cell Containing a complex of Noncarboxylated Dye Compound with Cyclodextrin Layer (Grad Sch. Eng., FUT) ○MIYAGAWA, Keisuke; HASEGAWA, Tatsuya; UMEDA, Takao; HARA, Michihiro

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- 2PA-101** Surface-active Properties of Alkali-hydrolyzable Sulfobetaine Surfactants in Aqueous Solutions (Grad. Sch. Sci. Technol., Shinshu Univ.) ○NAMIE, Yuji; ITOH, Yoshihiro
- 2PA-102** Coating Film Properties of Waterborne Carbon Black Paints Containing Hydrolyzable Emulsifiers and Application to Conductive Papers (Fac. Textile Sci. Technol., Shinshu Univ.) ○IMAZU, Akane; AMANO, Yuta; ITOH, Yoshihiro
- 2PA-103** Near Infrared Emission and Singlet Oxygen Generation from Glutathione-Protected Gold Nanoclusters under Visible Light Excitation (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KAWAMURA, Kouhei; KAWASAKI, Hideya
- 2PA-104** Air-sintered composite inks of single-nanosized copper nanoparticles / copper fine particles for producing conductive thick copper films at low-sintering temperatures (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TOMOTOSHI, Daisuke; KAWASAKI, Hideya
- 2PA-105** Development of organic-inorganic hybrid type silver antibacterial agent for resin application (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HORIIE, Kota; KAWASAKI, Hideya
- 2PA-106[#]** Synthesis of a ternary semiconductor quantum dot and evaluation of its emission behavior at a single-particle level (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAKEMURA, Koki; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-107[#]** Evaluation of emission behavior of CsSnXPb1-XBr3 perovskite quantum dots (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KUROSE, Toma; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-108[#]** Thermoresponsive Micelle Capturing Silver Nanoparticles in Microemulsion (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ○NAKAGAWA, Taichi; HINZE, Willie; TAKAGAI, Yoshitaka
- 2PA-109** pH- and thermo-responsive superparamagnetic iron oxide nanoparticle (SPION) (Sch. Eng., Univ. of Hyogo) ○KANO, Shinichiro; TAKEMURA, Yasushi; YUSA, Shin-ichi
- 2PA-110** Single-Particle Photoluminescence Imaging of Mixed Halide Organic-Inorganic Perovskite Nanoparticles (Sch. Sci., Kobe Univ.; Grad. Sch. Sci., Kobe Univ.; MPRC, Kobe Univ.) ○SAKAMOTO, Moeri; KARIMATA, Izuru; KOBORI, Yasuhiro; TACHIKAWA, Takashi
- 2PA-111** Preparation of mixed inks of copper particles and copper complex for producing conductive copper films on cellulose papers at low-temperature under air (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○UDA, Takuma; KAWASAKI, Hideya
- 2PA-112[#]** Preparation of Polymer-modified Monodispersed Magnetite Nanoparticles Controlled in Size and Shape and the Application to Magnetic-Field Responsive Lyotropic Liquid Crystals (IMRAM, Tohoku Univ.) ○SHEN, Chen; MATSUBARA, Masaki; YABUSHITA, Mizuho; MAKI, Sachiko; MURAMATSU, Atsushi; KANIE, Kiyoshi
- 2PA-113[#]** Synthesis and Catalytic Activity of Au/TiO₂ Plasmonic Photocatalyst (Fac. Sci. Eng., Kindai Univ.) ○MATSUBA, Taiki; SOEJIMA, Tetsuro
- 2PA-114** Development of PVP-Grafted Silica Nanoparticles by Surface Initiated-Atom Transfer Radical Polymerization (NIT, Sendai College) ○TANNO, Ryo; SATO, Tetsuo; MATSUBARA, Masaki
- 2PA-115** Solvothermal Synthesis of MgAl₂O₄ Nanoparticles for Photocatalyst (NIT, Sendai College) ○IGARASHI, Nao; MATSUBARA, Masaki
- 2PA-116** Dispersed aggregation of gold nanoparticles in water (Nippon Inst. Tech. Applied Chem.) ○WATANABE, Yuya; SASAKI, Kazunari; NIIKURA, Kenichi
- 2PA-117** Effect of noble metal addition to the ozone gas sensing properties of photoluminescent CdSe-based quantum dots (Fac. Chem. Materials and Bioeng., Kansai Univ.; BRI, AIST; Sch. of Med., Wakayama Med. Univ.) ○INAGAKI, Kosuke; ANDO, Masanori; SHIGERI, Yasushi; KAWASAKI, Hideya
- 2PA-118** Immobilization of dendrons producing platinum(0) nanoclusters on carbon material (Grad. Sch. Eng., Oita Univ.) ○TADOKORO, Satoshi; NOBUOKA, Kaoru; TOYODA, Masahiro; ISHIKAWA, Yuichi
- 2PA-119[#]** Preparation of anomalous gel particles including cellulose nanocrystals (Grad. Sch. Eng., Kobe Univ.) ○SUZUKI, Toyoko; LI, Yunfeng; GEVORKIAN, Albert; KUMACHEVA, Eugenia
- 2PA-120** Solution Properties of Homogeneous Polyoxyethylene Type Non-ionic Surfactants with a Single Chain Length Distribution (Fac. Sci., Nara Women's Univ.; NIKKOL GROUP Cosmos Technical Center Co., Ltd.) ○WANG, Shan; YADA, Shihō; YOSHIMURA, Tomokazu; HASHIMOTO, Satoru; SUZUKI, Toshiyuki
- 2PA-121** Aggregation Behavior of Mixture of N-Acyl Amino Acid-Type Anionic Surfactant with Hydroxy Group and Zwitterionic Surfactant in Solution. (Fac. Sci., Nara Women's Univ.; NOF CORPORATION; Kracie Home Products, Ltd.) ○KAGEYAMA, Asako; YADA, Shihō; YOSHIMURA, Tomokazu; SHIMOSEGAWA, Hiroshi; FUJITA, Hiroya; MATSUE, Yukako
- 2PA-122[#]** Towards structural control of guest-induced self-assembly of hydrogen bonding blockcopolymers (Faculty of Science and Technology) ○KATO, Masayuki; HASHIMOTO, Maki; FUJITA, Norifumi
- 2PA-123[#]** pH- and thermo-responsive anionic polymer (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUBARA, Koki; YUSA, Shin-ichi
- 2PA-124[#]** Interaction between poly(2-methacryloyloxyethyl phosphorylcholine) (PMPC) and poly(acrylic acid) (PAA) (Grad. Sch. Eng., Univ. of Hyogo) ○FUKUMOTO, Hirokazu; ISHIHARA, Kazuhiko; YUSA, Shinichi
- 2PA-125[#]** Moisture-responsive metal-coordinated nanocapsules (NRI, AIST) ○DING, Wuxiao
- 2PA-126** Preparation of New Supramolecular Structures Composed of γ -Cyclodextrin (Sch. Eng., Osaka Univ.) ○KITAGUCHI, Ryo; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 2PA-127[#]** Construction of the crystallization-induced-emission of azobenzene-pyrene dyad (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YOKOYAMA, Kosuke; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-128[#]** Photocontrol over supramolecular structures of azobenzene-quantum dot complexes (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YAMAMOTO, Seiya; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-129** Properties and function of supramolecular hybrid hydrogels toward the construction of high performance sensor (Grad. Sch. Eng., Sojo Univ.) ○KURODA, Naofumi; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PA-130** Formation of Tannic acid-PEG Complex and the Size Control (Nippon Inst. Tech. Applied Chem.) ○SAKASHITA, Kotaro; TSUCHIYA, Naohiro; NIIKURA, Kenichi
- 2PA-131** Properties and function of hybrid gels composed of stimuli-responsive polymer and supramolecular fiber (Fac. Eng., Sojo Univ.) ○TANAKA, Akira; KURODA, Naofumi; TAMARU, Shunichi; SHINKAI, Seiji
- 2PA-132** Development and characterization of sugar derivatives possessing β -1,3-glucan unit (Fac. Eng., Sojo Univ.) ○ISHIDA, Kazuma; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PA-133[#]** Naphthalene Diimide-based One-dimensional Aggregate for Electrochromism (Faculty of Science and Technology) ○MAEDA, Yoko; OKABE, Masaya; FUJITA, Norifumi
- 2PA-134[#]** Towards construction of colorimetric chiral molecular recognition system by one-dimensional molecular assembly (Graduate School of Science and Technology) ○YAMAGUCHI, Terumichi; TSUKADA, Ryota; FUJITA, Norifumi
- 2PA-135[#]** Supermolecular gelation of perovskite quantum dots and control of emission wavelength by halide exchange reaction (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○FUJIWARA, Yuka; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-136[#]** Self-assembly Phenomena of Fluorine-containing Phenyl 4-Mercapto-benzoate Derivatives (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○YAMAGUCHI, Junya; KANETADA, Kotaro; CAO, Banpeng; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PA-137[#]** Influence of central alkylene chain length of dimeric organic gelator on gelation ability (Fac. Eng., Yamaguchi Univ.) ○YOSHIHARA, Ryoichi; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PA-138[#]** Electrochemical Properties of Gel Electrolyte Using Low Molecular Weight Organic Gelator Containing Perfluoroalkyl Group (Fac. Eng., Yamaguchi Univ.) ○SUGIURA, Takumi; YAMAGUCHI, Junya; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PA-139[#]** Influence of Fluoroalkyl Chain Length of Low Molecular Mass Organic Gelators Having Fluorine Substituent at Both Terminal Position (Fac. Eng., Yamaguchi Univ.) ○MIZOBE, Daiki; MURATA, Yuki; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PA-140[#]** LCST behavior and Hofmeister salt effect of aryl ether AB₂-type Dendron derivatives (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MATSUMURA, Ayaka; ITO, Kazuaki
- 2PA-141[#]** LCST behavior of amphiphilic compounds bearing branched oligo (ethylene glycol) chains (Fac. Eng., Yamagata Univ.) ○ITO, Kazuki; ITO, Kazuaki
- 2PA-142** Polysaccharide-assisted self-assembly of functional molecules into hierarchical superstructure and its function (Fac. Eng., Sojo Univ.) ○KAMOGAWA, Kinosuke; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PA-143[#]** Theoretical study on formation of self-assembled monolayer based on ferrocenecarboxylic acids (KIT) ○MIYAMURA, Ryoga; TAKASHI, Yumura; WAKASUGI, Takashi
- 2PA-144[#]** Preparation of regular polyioncomplex via polymerization-induced self-assembly (Grad. Sch. Eng., Univ. of Hyogo) ○KINOSHITA, Yusuke; ISHIHARA, Kazuhiko; YUSA, Shin-ichi
- 2PA-145[#]** Preparation of Lipid Bilayer Membrane Supported by Micro-Honeycomb Porous Film (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○OSAKI, Kohei; MATSUMURA, Kazunari
- 2PA-146** CO₂ responsive behavior of liquid marble at air-liquid interface (Grad. Sch. Eng., Univ. of Hyogo) ○YUKIOKA, Shotaro; YUSA, Shin-ichi; FUJII, Syuji; NAKAMURA, Yoshinobu
- 2PA-147[#]** Theoretical Study of Adhesion Stress between Au and Epoxy Resin (IMCE, Kyushu Univ.) ○BABA, Taiki; MURATA, Hiroyuki; TSUJI, Yuta; TSURUMI, Naoaki; MASAGO, Noriyuki; YOSHIZAWA, Kazunari
- 2PA-148** Study of cohesion effect of potassium silicate (Fac. Sci. Tech., SIST) ○TRAN, Xuan Trieu; YAMAZAKI, Satoshi
- 2PA-149[#]** Evaluation of condensation heat transfer ability by utilizing smooth

- hydrophobic surface (Grad. Sch. Sci. Tech., Keio Univ.) ○NAKAMURA, Takuto; SHIRATORI, Seimei; GILLOT, Fredric
- 2PA-150[#]** Theoretical study on molecular orientation of triiodobenzene molecular aggregates inside carbon nanotubes (KIT) ○MIKI, Ryohei; YUMURA, Takashi; WAKASUGI, Takashi
- 2PA-151[#]** Near-infrared light-driven photocatalysts based on plasmonic Cu regular arrays (Coll. Sci. Tech., Nihon Univ.) ○FUKASAWA, Toru; SUGAWA, Kosuke; OTSUKI, Joe
- 2PA-152[#]** Energy transfer to Pt with concentrating antenna characteristics of Mie resonance on Cu₂O(core)/Pt(shell) nanoparticles (Coll. Sci. Tech., Nihon Univ.) ○KANAKUBO, Kotomi; SUGAWA, Kousuke; OTUKI, Joe; DNNNO, Miu; INOUE, Wataru
- 2PA-153[#]** Triplet-triplet annihilation-based upconverted emission properties at the Ag nanostructure interfaces expressing strong optical electromagnetic fields (Coll. Sci. Tech., Nihon Univ.) ○WATANABE, Shiryu; SUGAWA, Kosuke; OTSUKI, Joe; TAKESHIMA, Naoto; JIN, Syota; YOSHINARI, Satoshi
- 2PA-154[#]** Control of quenching and enhancement of molecular fluorescence on plasmonic Cu nanostructures (Coll. Sci. Tech., Nihon Univ.) ○MASUDA, Ayumu; TAKESHIMA, Naoto; YOSHINARI, Satoshi; SUGAWA, Kosuke; OTSUKI, Joe
- 2PA-155[#]** Achievement of highly efficient hydrogen generation catalytic reaction by localized surface plasmon resonance of Au (core)/Pd (shell)-type anisotropic nanoparticles (Coll. Sci. Tech., Nihon Univ.) ○YAMAKAWA, Yuhei; SUGAWA, Kosuke; OTSUKI, Joe
- 2PA-156[#]** Synthesis of Mie resonance-responsive Cu₂O nanoparticles and their application as a light-scattering imaging probe (Grad. Sch. Sci. Tech., Nihon Univ.) ○DANNO, Miu; KANAKUBO, Kotomi; HONDA, Jotaro; KIMURA, Tsuyoshi; SUGAWA, Kosuke; OTSUKI, Joe
- 2PA-157[#]** Development of plasmonic aluminum structures with high chemical stability and their application for photothermal therapy (Coll. Sci. Tech., Nihon Univ.) ○HONDA, Jotaro; DANNO, Miu; KIMURA, Tsuyoshi; SUGAWA, Kosuke; OTSUKI, Joe
- 2PA-158[#]** Chemical synthesis of FeS₂ nanocrystals and their photoelectrochemical responses (Coll. Sci. Tech., Nihon Univ.) ○YOKOYAMA, Jun; SUGAWA, Kosuke; KANAI, Daisuke; OTUKI, Joe
- 2PA-159[#]** Development of plasmonic Pd nanoparticles as a photothermal conversion material and their application to nanotherapy (Coll. Sci. Tech., Nihon Univ.) ○YAMAMURA, Ayano; SUGAWA, Kosuke; EGUCHI, Takumi; KIMURA, Tsuyoshi; OTSUKI, Joe
- 2PA-160[#]** Preparation of FeRu solid solution nanoalloy catalysts and their application to ammonia synthesis (Grad. Sch. Sci., Kyushu Univ.) ○OYABE, Takashi; FUKUSHIMA, Takashi; SADAKEYO, Masaaki; YAMAUCHI, Miho
- 2PA-161** Mechanism of reduction of wax gel hardness with storage (Sch. Biosci. Biotech., TUT) ○MATSUO, Hikari; SHIBATA, Masashi
- 2PA-162** Classification of application feel of cosmetic moisturizing agents (Sch. Biosci. Biotech., TUT) ○SUZUKI, Yuria; HISAMITSU, Issei; SHIBATA, Masashi

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Electronic Structure

- 2PA-165[#]** Theoretical study on suboxides of Rb (IMCE, Kyushu Univ.) ○HORI, Mikiya; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 2PA-166[#]** Projector Augmented Wave Method Incorporated into Gauss-type Atomic Orbital Based Density Functional Theory (Sch. Sci., Nagoya Univ.) ○SUGIURA, Akira; XIONG, Xiao-gen; YANAI, Takeshi
- 2PA-167[#]** Reduced-scaling self-consistent field method based on local resolution-of-the-identity approximation (Sch. Sci., Nagoya Univ.) ○YAMADA, Ayano; SAITOW, Masaaki; YANAI, Takeshi
- 2PA-168[#]** Complex absorption potential method with multi reference wave function theory (Sch. Sci., Nagoya Univ.) ○KOMORI, Yuki; YANAI, Takeshi; EHARA, Masahiro
- 2PA-169[#]** Combining Multireference Perturbation Theory with the Reference Interaction Site Model for Describing Excited States in Solution (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; PRESTO, JST; Grad. Sch. Sci., Kyoto Univ.; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SHIMIZU, Ryosuke Y.; YANAI, Takeshi; KURASHIGE, Yuki; YOKOGAWA, Daisuke
- 2PA-170[#]** Theoretical study of the effect of π -extension on the nonradiative decay of silepins based on multireference perturbation theory (Grad. Sch. Sci., Nagoya Univ.) ○INAI, Naoto; YANAI, Takeshi; YOKOGAWA, Daisuke
- 2PA-171[#]** Multi-state potential energy profiles of photochemical reaction of diarylethene derivatives: Multireference perturbation theory based analysis (Sch. Sci., Nagoya Univ.) ○HIRAISHI, Shotaro; INAI, Naoto; SOTOME, Hikaru; YOKOJIMA, Satoshi; MIYASAKA, Hiroshi; YANAI, Takeshi
- 2PA-172** Effects of hydrogen bonds and zero-point energy on the conformational stability of tyrosine and phenylalanine (Sci. Eng., The Univ. of Electro-Communications; Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○TAKAHASHI, Ryo; YAMAKITA, Yoshihiro
- 2PA-173** The vibrational modes of graphene nanoribbons: ribbon-width dependence (Sci. Eng., The Univ. of Electro-Communications; Grad. Sch.

- Sci. Eng., The Univ. of Electro-Communications) ○ASAMI, Riku; YAMAKITA, Yoshihiro
- 2PA-174[#]** Theoretical investigation on colorimetric change of β -carotene nanoparticles (R&D Center for Marine Biosciences, JAMSTEC) ○OKADA, Satoshi; SUZUKI, Ryuju; DEGUCHI, Shigeru
- 2PA-175[#]** Examination of electron transfer reaction rate by modified Marcus equation (Sch. Sci. Eng., Univ. of Tsukuba) MORIHASHI, Kenji; ○KUBOTA, Takumi
- 2PA-176[#]** Pyrimidanes: Study of the Electronic Structures of Pyramidal Compounds and their NMR Properties (Sch. Sci. Eng., Univ. of Tsukuba) ○TAKEMURA, Fumihide; LEE, Vladimir Ya.; MORIHASHI, Kenji
- 2PA-177[#]** Theoretical analysis of hydrogen bond between anthracene-urea derivative and acetate anion (Sch. Sci. Eng., Univ. of Tsukuba) ○ONOZAWA, Shu; MORIHASHI, Kenji; MATSUI, Toru

Chemical Reaction

- 2PA-178** Ab initio study on fragmentation pathways of sodium ion adducts of 4'-galloylpaconiflorin (Grad. Sch. Human. Sci., Nara Women's Univ.) ○KUSUMOTO, Misato; YAMAGAKI, Tohru; SUGAWARA, Kohtarō; TAKEUCHI, Takae
- 2PA-179[#]** Theoretical study of Co-C bond dissociation reactions by B₁₂-TiO₂ (IMCE, Kyushu Univ.) ○IMAMURA, Kenji; SHIOTA, Yoshihito; SHIMAKOSHI, Hisashi; HISAEDA, Yoshio; YOSHIZAWA, Kazunari
- 2PA-180[#]** Catalysis of gold nanoparticles supported on a layered double hydroxide (IMCE, Kyushu Univ.) ○MIWA, Tetsuya; STAYKOV, Aleksandar; YOSHIZAWA, Kazunari
- 2PA-181** Analysis of stability and reactivity of rhodium nanoclusters by finite-temperature density-functional tight-binding (FT-DFTB) method (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAMURA, Takahisa; CHOU, Chien-pin; DOI, Toshiki; YOSHIKAWA, Takeshi; OKOSHI, Masaki; NAKAI, Hiromi
- 2PA-182[#]** A New Proof for the Hückel's Rule using the Frontier Electron Theory (Osaka Med. Coll.) ○HAYASHI, Hideyuki

Bio-related

- 2PA-183** A theoretical study of interaction between neutralizing antibodies and the sialylated glycan of the glycoprotein on HIV-1 (Coll. Liberal Arts Sci., Kitasato Univ.) ○UENO-NOTO, Kaori
- 2PA-184** Determination of the reaction path of dehalogenation reaction catalyzed by haloacid dehalogenase L-DEX YL using quantum chemical calculation (Nagahama Institute of Bio-Science and Technology) ○TANAKA, Yusuke; NAKAMURA, Takashi; KONDO, Hirota; WATANABE, Hirofumi; TANAKA, Shigenori
- 2PA-185** Theoretical Investigation of Reductions of Biliverdin IX α . Catalyzed by Bilin Reductase (PcyA) using the ONIOM method (Coll. Sci., Ibaraki Univ.) ○MITSUIZUMI, Hiroaki; IJIMA, Eri; UNNO, Masaki; M. PAUL, Gleeson; MORI, Seiji

Materials

- 2PA-186** Theoretical modeling of high dielectric constant fullerene derivatives (ORIST) ○MATSUMOTO, Fukashi; SUMINO, Shuhei; IWAI, Toshiyuki; ITO, Takatoshi
- 2PA-187** Theoretical study on mechanisms of tetraphenylphosphoniumtetraphenylborate(TPP-K)-catalyzed epoxy-phenol curing reaction (Fac. Eng., Yamaguchi Univ.) ○MITANI, Ryusuke; SUMIMOTO, Michinori
- 2PA-188** Theoretical study on mechanisms metallophthalocyanine-catalyzed NO-CO reaction (Fac. Eng., Yamaguchi Univ.) ○NAKAHARA, Daisuke; SUMIMOTO, Michinori

Simulation

- 2PA-189[#]** Analysis of Protonation State around Catalytic Center of Firefly Luciferase to Study its Effect on Emission Color (Toyo Univ.) ○WADA, Naohisa; NOSAKA, Kota; ENDO, Kensuke
- 2PA-190[#]** SEB correction to improve the accuracy of solvation free energy for LJ fluids: an attempt to prepare solvent-solvent correlation function by MD simulation (Fac. Sci., Ehime Univ.) ○MIYATA, Tatsuhiko; FUJII, Takahiro; YANO, Daigo; OGASAWARA, Yu; EBATO, Yuki
- 2PA-191** Improvement of the solvation free energy of monoatomic solute immersed in homonuclear diatomic solvent within the RISM framework (Fac. Sci., Ehime Univ.) ○NAKASIMA, Kouma; MIYATA, Tatsuhiko
- 2PA-192** A study on the accuracy of isothermal compressibility evaluated from RISM theory (Fac. Sci., Ehime Univ.) ○SASAKI, Yasushi; MIYATA, Tatsuhiko
- 2PA-193[#]** Theoretical study on NaCl-water clusters: NaCl(H₂O)_n (n=1-8) (Nagasaki Nisi High School) ○SUZUKI, Keigo; KUROKI, Kanato; ZENITSUBO, Narumi; HASHIMOTO, Tomohiro; IWATA, Suehiro; GONDOH, Yoshinobu
- 2PA-194[#]** Multicanonical Monte Carlo Studies of second-order phase transition between water and ice VII, and those of Ising systems (Chukyo Univ.) ○MUGURUMA, Chizuru
- 2PA-195[#]** Theoretical analysis of the binding of a positron to acetaldehyde

molecule (Grad. Sch. Nanobiosci., Yokohama City Univ.) ODOHI, Kaito; TACHIKAWA, Masanori; KITA, Yukiumi

- 2PA-196[#]** Structural and free-energy analysis of amyloid β aggregation using molecular dynamics simulation (Grad. Sch. Eng. Sci., Osaka Univ.) O NITTA, Takashi; MASUTANI, Keiti; MATUBAYASI, Nobuyuki
- 2PA-197[#]** Variational path integral molecular dynamics simulation on nuclear quantum effect of protonated water clusters (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OSUGISAWA, Hiroki; IDA, Tomonori; MIURA, Shimichi

Chemical Information

- 2PA-198[#]** Determination of the range separation parameter in LC- ω PBE using machine learning (Sch. Sci. Eng., Univ. of Tsukuba) OSAKI, Yamato; FUJITA, Takehiro; MATSUI, Toru; SUMITA, Masato; MORIHASHI, Kenji

Others

- 2PA-199[#]** Development of accurate anharmonic vibrational state theory using a novel vibrational coordinate based on backflow transformation (Grad. Sch. Nanobiosci., Yokohama City Univ.) OISHII, Kiriko; TACHIKAWA, Masanori; KITA, Yukiumi
- 2PA-200** The structure and physical property of prism carbon sheet and wavy carbon using the Density Functional Theory with plane waves (Grad. Sch. Sys. Eng., Wakayama Univ.) OKODAYA, Yoshitomo; OKI, Takuto; TOKOYAMA, Hiroaki; YAMAKADO, Hideo; OHNO, Koichi
- 2PA-201[#]** Search for crystal structure candidates by maximizing packing rate (Grad. Sch. Sys. Eng., Wakayama Univ.) OKI, Takuto; KODAYA, Yoshitomo; OKUNO, Tsunehisa; YAMAKADO, Hideo
- 2PA-202** Exploration of transition structures of silicon crystal using the generalized scaled hypersphere search method and the RNM approximation (Grad. Sch. Sys. Eng., Wakayama Univ.) OMIDORO, Yuuki; KODAYA, Yoshitomo; YAMAKADO, Hideo; OHNO, Koichi
- 2PA-203** Search for novel CX(X=N,P,As) hybrid structures (Fac. Sys. Eng., Wakayama Univ.) YOSHIKAWA, Takeshi; OKI, Takuto; KODAYA, Yoshitomo; YAMAKADO, Hideo; OHNO, Koichi

Sunday, March 17, PM

(12 : 30~14 : 00)

Physical Organic Chemistry -Structures and Properties-

- 2PB-001[#]** Understanding the Thalidomide Chirality by the Self-disproportionation of Enantiomers (Grad. Sch. Eng., Nagoya Inst. of Tech.) OTOKUNAGA, Etsuko; SHIBATA, Norio
- 2PB-002** nucleophilic addition reaction to 7-Benzonorbornenone : Influence of cation- π interaction on stereoselectivity (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) OMAEDA, Yuki; YAMDA, Shinji
- 2PB-003** Preparation and Properties of Cz-CH=CH-BMes₂ (Fac. Sys. Eng., Wakayama Univ.; Fac. Sys. Eng., Wakayama Univ.) AKAGI, Kazuto; OKUNO, Tsunehisa
- 2PB-004** Synthesis of Dibenzopentafulvalene-Containing Extended π -Conjugated Systems (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; WPI-iCeMS, Kyoto Univ.) OTAMAKI, Asuka; YAMAGUCHI, Shigehiro; FUKAZAWA, Aiko
- 2PB-005** Synthesis of Size-selective Naphthylene Oligomer (Fac. Chem. Materials and Bioeng., Kansai Univ.) OANDO, Syoki; NOTO, Junya; UMEDA, Rui; NISHIYAMA, Yutaka
- 2PB-006** Synthesis and Physical Properties of Sterically Crowded Naphthalenes having Pyrene Units (Fac. Chem. Materials and Bioeng., Kansai Univ.) OTSUNO, Yuki; MIKI, Yuhei; KAKUTANI, Shota; UMEDA, Rui; NISHIYAMA, Yutaka
- 2PB-007** Facile Synthesis of π -Extended Oxepin Derivatives (Fac. Chem. Materials and Bioeng., Kansai Univ.) OKATSUYOSHI, Hashimoto; YUJI, Shimizu; YUTA, Ida; RUI, Umeda; YUTAKA, Nishiyama
- 2PB-008** Synthesis and characterization of 5,11-diazadibenzo[hi,qr]tetracene (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) FUJIMOTO, Keisuke; TAKIMOTO, Satoshi; TAKAHASHI, Masaki
- 2PB-009** Synthesis of multi-substituted perylenes via regioselective bromination (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) FUJIMOTO, Keisuke; ARIKAI, Yusaku; SUGIMOTO, Shinya; TAKAHASHI, Masaki
- 2PB-010** Synthesis and properties of azulenopyrrole derivatives (Fac. Sci., Shinshu Univ.) OISHINO, Saqura; OHTA, Akira; SHOJI, Taku; SEKIGUCHI, Ryuta
- 2PB-011[#]** Selective synthesis and property of cyclo[9]pyrrole (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) O MATSUMOTO, Hiroki; MORI, Shigeki; TAKASE, Masayoshi; UNO, Hidemitsu; OKUJIMA, Tetsuo
- 2PB-012[#]** Synthesis and physical properties of xanthene dimers (Sch. Eng., Univ. of Hyogo; Sch. Eng., The Univ. of Shiga Pref.) OSHIDA, Takuya; KISHIMOTO, Keita; NISHIDA, Jun-ichi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-013** Synthesis and properties of bianthryl derivatives with diarylhydroxymethyl groups (Grad. Sch. Eng., Univ. of Hyogo) OYONEDA, Mana;

NISHIDA, Junichi; OHTA, Katsutoshi; KITAMURA, Chitoshi; KAWASE, Takeshi

- 2PB-014** Synthesis of macrocyclic vinyl compounds containing phenanthroline rings (Grad. Sch. Eng., Univ. of Hyogo) OFUJII, Genki; NISHIDA, Jun-ichi; SHIOKI, Rumi; KAWASE, Takeshi
- 2PB-015** 17-Diazotetrabenzofluorene: Synthesis, reactions and structures of reaction products (Grad. Sch. Eng., Univ. of Hyogo; Sch. Eng., The Univ. of Shiga Pref.) OOURA, Genta; INOUE, Shogo; NISHIDA, Jun-ichi; KITAMURA, Chitoshi; KAWASE, Takeshi
- 2PB-016[#]** Synthesis of Thieno-Fused Tetracene Derivative Based on Oxidative Cross-Dehydrogenative Coupling (Fac. Eng., OIT) OTOGO, Masahiro; MURAOKA, Masahiro; MURATA, Michihisa
- 2PB-017** Pd-Catalyzed Synthesis of Arylated EBDT Derivatives and Their Structures and Properties (Grad. Sch. Sci., Eng., Ehime Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) OYOSHIMURA, Aya; SAKAKIBARA, Ryo; KIMURA, Hitoshi; HENMI, Keisuke; SHIRAHATA, Takashi; YORIMITSU, Hideki; MISAKI, Yohji
- 2PB-018** Synthesis of fused polycyclic pi-conjugated compounds composed of thiophene and azulenes (IMCE, Kyushu Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) OHIRATA, Takuma; NARITA, Masahiro; TERAOKA, Takaaki; MURAFUJI, Toshihiro; GOTO, Kenta; TANI, Fumito
- 2PB-019** Synthesis and properties of new helicene compounds including quinones and azulenes (IMCE, Kyushu Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) OKAJIMURA, Hiroto; MURAFUJI, Toshihiro; GOTO, Kenta; TANI, Fumito
- 2PB-020[#]** Synthesis of anthracene oligomers by using photochemical precursor method (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Mat. Sci., NAIST) OTSUNODA, Noburu; HAYASHI, Hironobu; YAMADA, Hiroko
- 2PB-021** Synthesis and Physical Properties of Naphthalene-fused Azulene Derivatives (Grad. Sch. Mat. Sci., NAIST) OUEHARA, Keiji; ARATANI, Naoki; YAMADA, Hiroko
- 2PB-022** Synthesis and Physical Properties of Triple Helicene by the Cross Cyclootrimerization (Grad. Sch. Sci., Osaka Pref. Univ.) OYUBUTA, Ayaka; HOSOKAWA, Tomoka; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 2PB-023** Synthesis and Physical Properties of Poly[5]Helicene by the Polymerization of a Helicenyl Aryne (Grad. Sch. Sci., Osaka Pref. Univ.) OYAMAGUCHI, Hiroki; TAKAHASHI, Yusuke; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 2PB-024[#]** Synthesis and Properties of Anthracene-Based Ladder π -Clusters (Sch. Sci., Osaka Univ.) OKAZAWA, Yuuki; NISHIUCHI, Tomohiko; KUBO, Takashi
- 2PB-025[#]** Synthesis of Hetera[6]circulenes through the Polyolithiations of Benzotrithiophene (Grad. Sch. Sci., Eng., Saitama Univ.) OYAMAGISHI, Ken; FURUKAWA, Shunsuke; SAITO, Masaichi
- 2PB-026** Synthesis and electronic properties of symmetrically and asymmetrically connected diazatetracene dimers (Fac. Sci., Osaka Pref. Univ.) OTANAKA, Katsuki; SAKAMAKI, Daisuke; FUJIWARA, Hideki
- 2PB-027** Synthesis of pi-Extended Porphycenes Fused with Thiophenes (IMCE, Kyushu Univ.) OYANO, Ryosuke; KAWANO, Yuta; GOTO, Kenta; TANI, Fumito
- 2PB-028** Synthesis of meso-Thienyl-Substituted Tribenzosubporphyrin (Grad. Sch. Eng., Kyushu Univ.) OYAMASHITA, Masaki; SHIMIZU, Soji; FURUTA, Hiroyuki
- 2PB-029[#]** Functionalization of fullerene C₆₀ via one electron reduction (Grad. Sch. Edn., Tokyo Gakugei Univ.) OMORISHITA, Tatsunari; SANNO, Makoto; YAMADA, Michio; MAEDA, Yutaka
- 2PB-030** Bottom-Up Synthesis of Graphenic Structures Containing Pentagonal Rings from Fluoranthene Derivatives (Toyota Central R&D Labs., Inc.) OKIKUZAWA, Yoshihiro; TAMURA, Shin-ichi; TETSUKA, Hiroyuki
- 2PB-031[#]** Preparation of Interchain-linked 2D Graphene Nanoribbons with Dibenzo[g,p]chrysene by Two-Zone Chemical Vapor Deposition (Grad. Sch. Energy Sci., Kyoto Univ.) OZONG, Pei; XU, Zhen; KAUSHIK, Kabya; NOBUSUE, Shunpei; KOJIMA, Takahiro; SAKAGUCHI, Hiroshi
- 2PB-032[#]** On-surface synthesis of graphene clusters from a quaterphenyl-branched Z-bar-linkage precursor (Grad. Sch. Energy Sci., Kyoto Univ.) OXU, Zhen; ZONG, Pei; KAUSHIK, Kabya; KOJIMA, Takahiro; NOBUSUE, Shunpei; SAKAGUCHI, Hiroshi
- 2PB-033[#]** Structure and Electronic Character of Multi-radicals in Cycloparaphenylene Structures (Fac. Sci., Hiroshima Univ.) OMIYAZAWA, Yuki; ABE, Manabu
- 2PB-034** Synthesis and Physical Properties of Trioxotriangulene Derivatives with Hydroxy Group (Fac. Eng., Aichi Inst. of Tech.) OOGI, Tsukasa; UKAI, Syusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 2PB-035** Synthesis of a TOT derivative having boronic acid and functional-group transformation by cross-coupling reaction (Fac. Eng., Aichi Inst. of Tech.) OANDO, Ryuji; UKAI, Syusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 2PB-036** Synthesis and physical properties of a π -conjugated open-shell species of trioxotriangulene dimer (Fac. Eng., Aichi Inst. of Tech.) OYAMAGUTI, Sawa; UKAI, Syuusaku; FUZISAWA, Kaori; MURATA, Tsuyoshi; MORITA, Yasushi
- 2PB-037** Functionalization and improvement in reactivity of naphthalene by introducing phenol units (Grad. Sch. Sci., Osaka Univ.) OKUDA, Tomoki; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-038[#]** Synthesis of a new spiro singlet tetradical and evaluate its

- characteristics (Sch. Sci., Osaka Univ.) ○KAKU, Kishin; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-039[#]** Studies on the Synthesis of doublet triradical species based on triindenyl skeleton (Sch. Sci., Osaka Univ.) ○MIYAGAWA, Nanako; NISHIUCHI, Tomohiko; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-040[#]** Synthesis and Properties of Oxygen-Embedded Quinoidal Compounds with Polycyclic Conjugated Framework (Sch. Eng., The Univ. of Shiga Pref.; IMCE, Kyushu Univ.) ○MORI, Sakura; MATSUMOTO, Taisuke; KITAMURA, Chitoshi; KATO, Shin-ichiro
- 2PB-041** Synthesis, structures, and electronic properties of TTF derivatives with spin-delocalized radical substituents (Grad. Sch. Sci., Osaka Pref. Univ.) ○MITSUOKA, Misaki; SAKAMAKI, Daisuke; FUJIWARA, Hideki
- 2PB-042** Synthesis and properties of viologen derivatives extended with azulene (Grad. Sch. Sci., Kitasato Univ.) ○SAITOU, Souta; TSUCHIYA, Takahiro; MAZAKI, Yasuhiro
- 2PB-043** Functionalization of phenothiazine derivatives by ammonium bridge (Nagoya Municipal Industrial Research Institute; Aichi Med. Univ.; Lab. Chem. Life Sci., Tokyo Tech.) ○HAYASHI, Hideki; OGAWA, Tadashi; KOIZUMI, Take-aki
- 2PB-044[#]** Synthesis and Physicochemical Properties of 2,7-Dialkylated Phenanthro[2,1-*b*:7,8-*b'*]dithiophenes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Research Institute for Interdisciplinary Science.) ○JI, Zhenfei; MORI, Hiroki; NISHIHARA, Yasushi
- 2PB-045[#]** Synthesis and Optical Properties of Nitrile Substituted 2,5-Di(1,3-dithiol-2-ylidene)-1,3-dithiolane-4-thione Derivatives (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○UEDA, Kazumasa; SUZUKI, Yuta; OKANO, Tatsumi
- 2PB-046** Synthesis of N-Pyridyl and Pyridinium Phthalimide Compounds and Their Physical Properties (Grad. Sch. Eng., Univ. of Hyogo; Grad. Sch. Sci., Osaka Univ.) ○KITAGUCHI, Nami; NISHIDA, Jun-ichi; HASIMOTO, Akito; HIRAO, Yasukazu; KAWASE, Takeshi
- 2PB-047** Synthesis and Properties of Dibenzob[*b*,*g*]phosphindolizine P-oxide (Grad. Sch. Sci., Osaka Pref. Univ.) ○TAHARA, Sana; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 2PB-048** Synthesis and Properties of Triarylboranes Bearing a Fused Heterocycle as a Connecting Structure with π -Conjugated System Moieties (Grad. Sch. Sci. Eng., Univ. of Toyama) ○YOSHINO, Junro; KAWAGUCHI, Shusei; HAYASHI, Naoto
- 2PB-049** Synthesis and Properties of Phenothiazine and Dihydroacridine Derivatives Bearing Various Aromatics via Ethynylene Spacers as Acyclic Host Compounds (Grad. Sch. Sci. Tech., Gunma Univ.) ○SEKI, Katsuya; YAMAMOTO, Koji; NAKAMURA, Yosuke
- 2PB-050** Synthesis of Polycyclic Aromatic Compounds Containing Boronate Ester or Hypervalent Iodine (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○YAMAMOTO, Takehiro; NAKATSUKA, Soichiro; HATAKEYAMA, Takuji
- 2PB-051[#]** Photon Upconversion of Dyads Connected by Nonconjugated Linkers (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○HONDA, Kiyomasu; KANO, Masaya; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi
- 2PB-052[#]** Intramolecular Singlet Fission Behavior of Adamantane-linked Tetracene Dyad (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; MPRC, Kobe Univ.; UNISOKU Co., Ltd.) ○KAWAOKA, Shuhei; MATSUI, Yasunori; NAGASHIMA, Hiroki; NAKAGAWA, Tatsuo; OKAMURA, Naoki; OHTA, Eisuke; YAGI, Shigeyuki; KOBORI, Yasuhiro; IKEDA, Hiroshi
- 2PB-053[#]** Photoreaction of catechol and its analogues in the presence of a lanthanide ion (Grad. Sch. Sci., Osaka City Univ.) ○TAKANO, Takuto; MIYAKE, Hiroyuki; SHINODA, Satoshi
- 2PB-054[#]** Synthesis of Phosphorescent Polyfluorinated Benzil Derivatives and Their Photophysical Properties (KIT; NMJ; AIST; Dept. Life Sci. & Appl. Chem., Nagoya Inst. of Tech.) YAMADA, Shigeyuki; ○HIGASHIDA, Takuya; HOSOKAI, Takuya; MIZOGUCHI, Akimi; OKABAYASHI, Yusuke; KONNO, Tsutomu
- 2PB-055[#]** Synthesis of novel aromatic compounds based on proton-electron donor and acceptor units (Sch. Sci., Osaka Univ.) ○INOBE, Honami; HIRAO, Yasukazu; KUBO, Takashi
- 2PB-056** Synthesis and Properties of 2-(Aryliminomethyl)naphthalene-1-ol Derivatives Oriented to Organic Fluorescent Solids (Grad. Sch. Eng., FUT; FUT) ○TANAKA, Hiroshi; KURATA, Hiroyuki
- 2PB-057** Synthesis of (zinc) 3-acetylchlorin-spiropyran dyads and their physical properties (Fac. Sci. Tech., Ryukoku Univ.) ○ARAKAWA, Yuji; MIYATAKE, Tomohiro
- 2PB-058** Synthesis of Covalently Linked Diarylethene-Permethyated γ -Cyclodextrin Complex: Control of Molecular Conformation Based on Encapsulation (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) ○SHIRAKAMI, Kento; HIROSE, Takashi; MATSUDA, Kenji
- 2PB-059[#]** Synthesis and fluorescence properties of quinolylphenothiazine derivatives (Grad. Sch. Eng., Utsunomiya Univ.) ○OBA, Toru; ○TANAZAWA, Kimitaka; ITO, Satoshi; TAMESUE, Shingo
- 2PB-060** Multicolor mechanochromic luminescence found in donor-acceptor fluorescent dyes (NIT, Kurume College) ○KICHISE, Rihoko; DAVIN, Christopher; MATSUMOTO, Taisuke; ISHI-I, Tsutomu
- 2PB-061** Mechanochromic luminescence of acid-base complexes composed of pyridyl substituted solid-state emissive dye and benzoic acid derivatives (Col. Eng. Sci., Yokohama Natl. Univ.) ○NISHIMOTO, Chika; NAGAI, Sayaka; ITO, Suguru
- 2PB-062** Two-Component Mechanochromic Luminescence of Dibenzofuran-Based Diamine Derivatives with Bis-Pyrenylmethyl Groups (Grad. Sch. Eng., Yokohama Natl. Univ.) ○SEKINE, Ryohsei; ASAMI, Masatoshi; ITO, Suguru
- 2PB-063** Mechanochromic properties of phenylanthracene derivatives (KIT) ○KANNEN, Fumihiko; KOJIMA, Yusuke; KUSUKAWA, Takahiro
- 2PB-064[#]** Fabrication and Characterization of Field Effect Transistors Using Benzothiazinophenothiazine Derivative (Grad. Sch. Sci. Eng., Kindai Univ.) ○FUKUDA, Sanshiro; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 2PB-065** Tuning of Physical Properties of Tetracoordinate Boron-Centered Spiro Compounds by Substituent Effect (Sch. Sci. Tech., Kwasei Gakuin Univ.) ○HAMA, Toshiki; KAMEDA, Mayu; KITERA, Sayuri; HATAKEYAMA, Takuji
- 2PB-066** Possibilities of Diarylethene Having Benzothieno[3,2-*b*]thiophene as Aryl Groups for Organic Field-Effect Transistors (Grad. Sch. Eng., Kyoto Univ.; MANA, NIMS) ○TANAKA, Kouki; HIGASHIGUCHI, Kenji; WAKAYAMA, Yutaka; MATSUDA, Kenji
- 2PB-067[#]** Synthesis and properties of a helically-twisted π -conjugation system with NDI units (RIKEN CEMS) ○OHTSUKA, Nobuhiko; NAKANO, Masahiro
- 2PB-068** Aggregation-induced Emission of Donor-acceptor Dyes Complexed with Lectins (NIT, Kurume College) ○KATO, Tomoki; KOGA, Sawako; ISHI-I, Tsutomu
- 2PB-069** Synthesis and Physical Properties of Luminescent Materials with Dicyano Moieties (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○FUJIWARA, Ryoichi; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 2PB-070** Synthesis of Imidazole Derivatives Carrying Regioselectively Introduced Arylethynyl Groups and Their Emission Behavior (Fac. Sci. Tech., Keio Univ.) ○KOBAYASHI, Kotaro; MIURA, Yohei; YOSHIOKA, Naoki
- 2PB-071[#]** Efficient Exciplex Systems Based on Phenylpyridinato Boron Derivatives via Excited-State Energy Alignment (OPERA, Kyushu Univ.) ○MAMADA, Masashi; GUOJIAN, Tian; JIANHUA, Su; NAKANOTANI, Hajime; ADACHI, Chihaya
- 2PB-072[#]** Design, synthesis, and photophysical properties of new symmetrical molecules based on quadrupolar systems (Fac. Eng., Tokushima Univ.) ○SANAGAWA, Yohei; YAGISHITA, Fumitoshi; KAWAMURA, Yasuhiko
- 2PB-073** Construction of the circularly polarized luminescence (CPL) system using hydrophobic pyrene derivatives and γ -cyclodextrin (γ -CD) in water. (Fac. Sci., Nara Women's Univ.) ○SAWAI, Mika; TAKASHIMA, Hiroshi; TSUNEISHI, Hibiki; MIMURA, Yuki; IMAI, Yoshitane
- 2PB-074** CD and CPL Characteristics of Hydrogen-bonding Complexes Consisting of Chiral Diamines and Achiral Dyes (Coll. Sci., Rikkyo Univ.) ○TAKU, Isogai; KANSAKU, Yaoki; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro
- 2PB-075** Synthesis and Spectroscopic Property of Chiral Linker-Bridged Boron Dipyrromethene Dimers (Fac. Sci. Tech., Keio Univ.) ○TSUDA, Kento; SAKAI, Hayato; HASOBE, Taku
- 2PB-076** Synthesis and Physical Properties of Carbazole-Based DABNA Derivatives (Grad. Sch. Sci. Tech., Kwasei Gakuin Univ.) ○KUMANO, Wataru; YOSHIURA, Kazuki; MATSUI, Kohei; ODA, Susumu; HATAKEYAMA, Takuji
- 2PB-077** Synthesis and polymerization of methacrylate systems with carbazophane moieties (Osaka Kyoiku Univ.) ○HASHIGUTSI, Hitoyasu; HORI, Kazushige; KUBONO, Kouji; GOTO, Kenta; TANI, Fumito; SAKAKIBARA, Keita; TSUJII, Yoshinobu; TAKEMURA, Hiroyuki; TANI, Keita
- 2PB-078** Development of novelty planar chirality materials with [3.3](3,9) carbazophane derivatives (Osaka Kyoiku Univ.) ○MIYANAGA, Kanae; HORI, Kazushige; KUBONO, Kouji; MORI, Tadashi; TANI, Fumito; GOTO, Kenta; TANI, Keita
- 2PB-079** Synthesis and photophysical properties of D-A compounds having electron withdrawing group at the 3-position of N-ethylcarbazole (Osaka Kyoiku Univ.) ○HARADA, Shizuki; MIYANAGA, Kanae; HORI, Kazushige; KUBONO, Kouji; GOTO, Kenta; TANI, Fumito; TANI, Keita
- 2PB-080[#]** Substituent effect on solid-state emission of imidazopyridine derivatives with 7-membered ring containing intramolecular hydrogen bond (IIS, The Univ. of Tokyo) ○SUZUKI, Rikuto; MUTAI, Toshiki; YOSHIKAWA, Isao; HOJOU, Hirohiko; OGURA, Masaru
- 2PB-081[#]** Development of fluorescence color tuning in solid state of pyrrolo [3,2-*b*]pyrrole derivatives by boron nitrogen complexation with solid state synthesis (Grad. Sch. Eng., Kyushu Univ.) ○HATANAKA, Sou; ONO, Toshikazu; YANO, Yoshio; GRYKO, Daniel; HISAEDA, Yoshio
- 2PB-082** Synthesis of cationic template molecular with amidinyl group for oligomerizing of anionic monomer with carboxyl group (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○NISHIYAMA, Hitoki; ISHII, Ibuki; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 2PB-083** Synthesis of β -Diketone Ligands from Anthracene Derivatives (Fac. Sci., TUS) ○KASHIWAGI, Sota; YUASA, Junpei

- 2PB-084** Synthesis of C3 symmetric ligands having anthraquinone binding sites (Fac. Sci., TUS) ○KISHIDA, Sakura; YUASA, Junpei
- 2PB-085[#]** Structure of silver(I) complexes of tetra-armed cyclen with four pyridylmethyl groups as side-arms (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○HAYANO, Miho; LEE, Eunji; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-086[#]** Synthesis of cyclophane with cyclen framework and biphenyl groups (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○HORITA, Hiroki; LEE, Eunji; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-087[#]** Binding property towards several organic guests by cylindrical cryptand based on dixyl-26-crown-8 (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○MATSUMOTO, Yuka; LEE, Eunji; ABO, Kinsuke; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-088[#]** Anion- and Solvent-Dependent structures of Silver(I) Complexes of Bipyridyl Ligand Containing Naphthalene (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○HONGU, Haruka; LEE, Eunji; JU, Huiyeong; MAKI, Yoshimi; TOYA, Masato; SAITO, Akiko; LEE, Shim Sung; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-089[#]** Chirality Transcription and Amplification of Chiral Nitriles by Ag⁺ Complex of Tetra-armed Cyclen (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○TEMMA, Honoka; LEE, Eunji; IWASE, Miki; IKEDA, Mari; LEE, Shim Sung; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-090[#]** One-pot synthesis of argentiferous cryptands using Schiff base (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○MOROZUMI, Takumi; LEE, Eunji; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 2PB-091** Asymmetric transportation of di-carboxylic acids through bulk liquid membrane containing γ -lactam derivatives as optically active carrier molecules (Tokushima Bunri Univ.) ○TADA, Natsumi; KAKU, Hiroto; OTSURU, Sara; SAKURAMA, Daijiro; KANEMATSU, Kaede; HORIKAWA, Mitsuyo; TSUNODA, Tetsuto
- 2PB-092** Synthesis of a Diamidine Having a Tetraphenylethylene Unit and Its Carboxylic Acid Recognition (KIT) ○MURAKAMI, Hiroki; TESSEMA, Eyob Ashenafi; KUSUKAWA, Takahiro
- 2PB-093** Synthesis of a Diamidine Having a Tetraphenylethylene Unit with a Rotationally Restricted Phenyl Group (KIT) ○NAKAGAWA, Ayaka; KUSUKAWA, Takahiro
- 2PB-094** Synthesis and Inclusion Ability of α -Cyclodextrin Dimers Bearing Plural Pyridine Linkers (Sch. Eng., Osaka Univ.) ○IBARAGI, Yushi; IGUCHI, Hitomi; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 2PB-095** Synthesis and Evaluation of Water-Soluble Catenanes by Using Intramolecular Glaser Reaction (Dept. Mat. Sci., NIT, Wakayama College) ○MIHARA, Chihiro; KAWAJI, Takatoshi
- 2PB-096[#]** Incorporation of small molecules into pseudo-polyrotaxane nanosheets (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○KOBAYASHI, Ryota; MAEDA, Rina; UENUMA, Shuntaro; MAYUMI, Koichi; YOKOYAMA, Hideaki; ITO, Kohzo
- 2PB-097[#]** Synthesis and Properties of Macrocyclic Crown Ethers Incorporating a Bis(1,3-benzodithiole)-type Redox-responsive System (Fac. Sci., Shinshu Univ.) ○AKANUMA, Haruna; OHTA, Akira
- 2PB-098[#]** Molecular Recognition Properties of Tetrathiafulvalene Vinylogues Containing Fused Crown Ether Rings for Basic Amino Acid Derivatives (Fac. Sci., Shinshu Univ.) ○TANIGUCHI, Yumika; OHTA, Akira
- 2PB-099** Spatial distribution of pillar[5]arene-guest interactions investigated by 3D-AFM (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MATSUI, Sayaka; TAKANO, Shunpei; OGOSHI, Tomoki; ASAKAWA, Hitoshi
- 2PB-100[#]** Exploration of gigantic spherical complexes formed by metal-coordination self-assemblies (Fac. Eng., The Univ. of Tokyo) ○HARA, Tomoaki; DOMOTO, Yuya; OFUKU, Masafumi; FUJITA, Daishi; FUJITA, Makoto
- 2PB-101[#]** Metal-induced self-assembly of β -helical peptides (Fac. Eng., The Univ. of Tokyo) ○IWASAKI, Wataru; YAMAGAMI, Motoya; SAWADA, Tomohisa; FUJITA, Makoto
- 2PB-102** Synthesis of Cyclic Dipyrrins Bearing 2,2'-Bipyridines as a Spacer Unit (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○SERIZAWA, Kohei; CHIBA, Yusuke; NABESHIMA, Tatsuya
- 2PB-103** Synthesis of 1,3-Dimethoxy-*m*-phenylene-bridged Cyclic Dipyrrins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○MASUMOTO, Masaki; CHIBA, Yusuke; NABESHIMA, Tatsuya
- 2PB-104[#]** Synthesis and coordination supramolecules of perylene derivatives with pyridyl group (Coll. Sci. Tech., Nihon Univ.) ○UEDA, Takatoshi; KENGAU, Kazuki; OTSUKI, Joe; SUGAWA, Kousuke
- 2PB-105** Control of self-assembly of flexible polyimine ligands by stepwise coordination (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ASHIDA, Yoshiko; YOSHIOKA, Shota; ○YONEDA, Tomoki; INOKUMA, Yasuhide
- 2PB-106[#]** Solvothermal Synthesis of Porous Coordination Polymers made up of 5,15-di(4-pyridyl)-10,20-diarylporphyrins and metal ion (Grad. Sch. Sci., Josai Univ.) ○YUUKI, Adachi; MOTOKO, Akita
- 2PB-107[#]** Synthesis and properties of PEG-functionalized hemicyclopphanes (Sch. Eng., Osaka Pref. Univ.) ○YAMAOKA, Hiroki; MAKITA, Yoshimasa; FUJIWARA, Shinnichi; OGAWA, Akiya
- 2PB-108** Synthesis of Novel Bisresorcinarenes and Their Self-Assembly into Supramolecular Nanostructure (Grad. Sch. Industrial Tech., Nihon Univ.) ○KUMAGAI, Takuya; SHIMIZU, Shoichi
- 2PB-109** p-Phenylene-Inserted Borylpipridine: Exclusive Crystallization of Cyclic Tetramer (Fac. Health Sci., Suzuka Univ. of Med. Sci.) ○WAKABAYASHI, Shigeharu; SUGIYAMA, Natsu; NAMEKATA, Yuka; OHKI, Yasuhiro; KITAGAWA, Toshikazu
- 2PB-110** Synthesis of photoresponsive polymer using modified Cucurbit [6]uril (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○MINO, Masatomoo; NAKAMURA, Asao
- 2PB-111[#]** Assembly phenomena of benzoic acid phenyl derivatives having fluoroalkyl group and alkyl chain (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KAWAMOTO, Yuta; OKAMOTO, Hiroaki; MORITA, Yuki; CAO, Bangpen
- 2PB-112[#]** CH- π Interaction-driven Self-assembly of Biphenylanthracene-based Amphiphiles in Aqueous Media (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○NARITA, Hiroki; NISHIKAWA, Tsuyoshi; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 2PB-113** Synthesis and properties of chlorophyll derivatives possessing *N*-alkyl amide groups (Fac. Sci. Tech., Ryukoku Univ.) ○INOUE, Ryo; MIYTAKE, Tomohiro
- 2PB-114[#]** Preparation of cyclic hosts by the derivatization of calix[4]furan (Grad. Sch. Natural Sci., Konan Univ.) ○KUWAHARA, Junya; KAWAHATA, Masatoshi; DANJO, Hiroshi
- 2PB-115[#]** Preparation of cavity-extended cyclic spiroborates (Grad. Sch. Natural Sci., Konan Univ.) ○KOSUGI, Hiroki; KOJIO, Yuhki; HASHIMOTO, Yuhki; MORITA, Kentarou; KAWAHATA, Masatoshi; DANJO, Hiroshi
- 2PB-116[#]** Development of Saddle-shaped Cyclic Spiroborates (Grad. Sch. Natural Sci., Konan Univ.) ○DOGANE, So; KITAI, Takashi; SAKAGUCHI, Haruka; KAWAHATA, Masatoshi; DANJO, Hiroshi
- 2PB-117** Synthesis of cyclophanes having PNIPAM side-chains and their temperature-responsive capture and separation toward guest molecules. (Fac. Sci., Fukuoka Univ.) ○TANAKA, Haruna; HAYASHIDA, Osamu
- 2PB-118** Synthesis and Reduction-responsive Aggregation Behavior of Amphiphilic Cyclophanes Having a Disulfide Moiety (Fac. Sci., Fukuoka Univ.) SUEOKA, Tadahi; SHIBATA, Kana; TANAKA, Haruna; ○HAYASHIDA, Osamu
- 2PB-119** Induction and Inversion of Helical Chirality of Copolymer Composed of Dithienyl Ketone and Benzene (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○TSUNO, Takafumi; KOGA, Soichiro; OHTA, Eisuke; TANI, Syuichi; OGAKI, Takuya; MATSUI, Yasunori; IKEDA, Hiroshi
- 2PB-120[#]** Synthesis of [c2] Daisy Chain Rotaxane by Self-assembly of Lariat Ethers (Fac. Eng., OIT) ○OHGI, Ryusei; MURATA, Michihisa; MURAOKA, Masahiro
- 2PB-121[#]** Photoisomerization of a novel molecular motor with Ru(bpy)₃²⁺ chromophore (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○TAKENAKA, Moe; LEE, Eunji; IKEDA, Mari; HABATA, Yoichi; KUWAHARA, Shunsuke
- 2PB-122** Synthesis and Photodynamics of Tetracene-Terminated Alkanethiolate Monolayer on Quantum Dots (Fac. Sci. Tech., Keio Univ.) ○KITANO, Mana; SAKAI, Hayato; HASOBE, Taku
- 2PB-123** Azobenzene containing synthetic bilayer membrane with a single branched alkyl chain - preparation and its self - organization (Fac. Eng., Oita Univ.) ○MATSUE, Reika; NOBUOKA, Kaoru; SUZUKI, Ayako; ISHIKAWA, Yuichi
- 2PB-124[#]** Searching for the Functional Dyes to Achieve Effective Encapsulation into Carbon Nanotubes (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MIYAKE, Hideaki; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka
- 2PB-125[#]** Preparation and properties of Ag nanocluster oligomers linked by bifunctional chiral ligands (Grad. Sch. Sci. & Tech., NAIST) ○OKUMIYA, Ryuta; YOSHIDA, Hiroto; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

Physical Organic Chemistry -Reaction Mechanism-

- 2PB-127[#]** Kinetic Isotope Effect in the Scavenging Reaction of a Water-Solubilized Organic Radical by a Vitamin E Analog (NIRS) ○NAKANISHI, Ikuo; OHKUBO, Kei; OZAWA, Toshihiko; MATSUMOTO, Ken-ichiro
- 2PB-128[#]** Theoretical study on the transannular reaction of zerumbone derivatives using amine-based reagents (Dept. Lib. Arts, Saitama Med. Univ.) ○TSUCHIDA, Noriko; UTAKA, Yoshimi; FUKUSHIMA, Miyuki; KASHIWAZAKI, Gengo; KITAYAMA, Takashi
- 2PB-129** Theoretical Studies on Oxidative Kinetic Resolution of Racemic Secondary Alcohols Using Chiral Ligand-Hybridized Nitroxyl Radical/Copper Cooperative Catalysis (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KAWASHIMA, Kyohei; SASANO, Yusuke; KASABATA, Koki; IWABUCHI, Yoshiharu; MORI, Seiji
- 2PB-130** Regio- and Diastereoselective Preparation of Enol Ethers by Boradecarboxylation (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○TAKAMORI, Atsushi; NARUSE, Yuji

Organic Chemistry -Reaction and Synthesis-
Heterocyclic Compounds

Reactions, Oxidation

- 2PB-133** Facile Synthesis of Spiro[cycloalkane-1,3'-indoline]-2,2'-diones (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○KATAYAMA, Shin-tarou; NISHINO, Hiroshi
- 2PB-134** Mn(III)-Based Oxidation of 3-(2,2-Diarylviny)pentane-2,4-diones (Department of Science, Kumamoto University) ○OKA, Sousuke; NISHINO, Hiroshi
- 2PB-135** Synthesis of [4.4.3]Propellanes Using Methylenebis(cyclohexanedione)s (Department of Science, Kumamoto University) ○SHIBUYA, Keisuke; NISHINO, Hiroshi
- 2PB-136** Synthesis of 3-aryl-2,3-dihydro-1,4,2-benzodithiazin 1,1-dioxides by oxidative cyclization of 2-(phenacylsulfanyl)benzenesulfonamide derivatives (Grad. Sch. Eng., Tottori Univ.) ○FUJIWARA, Daiki; KOBAYASHI, Kazuhiro
- 2PB-137[#]** One-Pot Preparation of 6-Arylphenanthridines from o-Aroylbiaryls via Iminyl Radical Intermediates (Grad. Sch. Sci., Chiba Univ.) ○KISHI, Atsushi; TOGO, Hideo
- 2PB-138** One-Pot Preparation of 3-Arylpyrazoles and 3-Arylisoxazolines from Arenes. (Grad. Sch. Sci., Chiba Univ.) ○YAMAMOTO, Takahiro; TOGO, Hideo
- 2PB-139[#]** One-Pot Transformation of Benzylic alcohols into 3-Arylisoxazolones and 3-Arylpyrazoles (Grad. Sch. Sci., Chiba Univ.) ○KOBAYASHI, Eiji; TOGO, Hideo

Reactions, Enantioselective, Asymmetric

- 2PB-140** New oxazolidinone organocatalyst for asymmetric Michael addition of β -ketoesters with β -nitroolefins. (Sch. Eng., Muroran Inst. of Tech.) ○MORI, Takuya; SEKI, Chigusa; OKUYAMA, Yuko; UWAI, Koji; NAKANO, Hiroto
- 2PB-141** Development of Cage Type Organocatalyst and Its Application to Asymmetric Michael Addition (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○TOGASHI, Rei; CHENNAPURAM, Madhu; SEKI, Chigusa; UWAI, Koji; NAKANO, Hiroto
- 2PB-142[#]** Development of novel di-amino alcohol organocatalysts and application for asymmetric reaction (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○SEKI, Kento; U.V, Subba Reddy; YAMADA, Keigo; HURUYAMA, Taniyuki; OKUYAMA, Yuko; KWON, Eunsang; SEKI, Chigusa; UWAI, Koji; TOKIWA, Michio; TAKESHITA, Mitsuhiro; NAKANO, Hiroto
- 2PB-143** Substrate Dependent Asymmetric Michael Addition with Pyrrolidine-thiazolium Conjugated Chiral Ionic Liquid (Fac. Eng., Oita Univ.) ○KUMANO, Sho; NOBUOKA, Kaoru; KITAOKA, Satoshi; FUKUTA, Hiroki; ISHIKAWA, Yuichi
- 2PB-144** Development of Catalytic Enantioselective Amide Allylation in Water (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; MAEGAWA, Ryunosuke; ○IMAMURA, Hiroki; WADA, Mitsuo; YODA, Hidemi
- 2PB-145[#]** Synthesis of optically pure oxa[9]helicene derivatives by reaction of helical quinones with several nucleophiles (Grad. Sch. Eng., Utsunomiya Univ.) ○HOSSAIN, Md. Sharif; KARIKOMI, Michinori
- 2PB-146[#]** Asymmetric synthesis and olfactory evaluation of whiskey lactone analogues (Fac. Eng., Toyama Pref. Univ.; Grad. Sch. Sci. Eng., Univ. of Toyama; TAIYO CORPORATION) ○KAWASAKI, Masashi; KATO, Daiki; TANAKA, Yasuo; TOYOOKA, Naoki
- 2PB-147** Ring formation by the reaction of diol and nonsubstituted sulfonamide with new Mitsunobu reagents and its application to lupinine synthesis. (Tokushima Bunri Univ.) ○SONODA, Yuhei; KAKU, Hiroto; KUBO, Akiko; HISHIDA, Hideyuki; TANIGUCHI, Yuri; GODA, Kayo; HORIKAWA, Mitsuyo; TSUNODA, Tetsuto
- 2PB-148** Diastereocontrol of disubstituted cyclopentanones using inclusion complexation under epimerization conditions and its application to asymmetric synthesis of sedamines. (Tokushima Bunri Univ.) ○NAKATA, Momoka; KAKU, Hiroto; ITO, Minami; UEHARA, Rikako; HORIKAWA, Mitsuyo; TSUNODA, Tetsuto

Reactions, Metal

- 2PB-149[#]** Direct 4'-substitution of planar-chiral terpyridine via iridium-catalyzed C-H borylation (Waseda Univ.) ○NAKAJIMA, Mamoru; KANOMATA, Nobuhiro
- 2PB-150** New Routes to spirocyclic lactams via Electrophilic Amide Allylation of isoindolinones (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; SONODA, Satoshi; ○MAKINO, Koki; IJIMA, Ayumi; YODA, Hidemi
- 2PB-151[#]** (E)-, (Z)-stereocomplementary syntheses of multi-substituted conjugated dienes utilizing one-pot cross-couplings of enol tosylates (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMAMOTO, Haruka; HANATANI, Yutaro; TAKEMOTO, Taichi; TANABE, Yoo
- 2PB-152[#]** Reaction of N-sulfonyl-1,2,3-triazole with β -diketone (Kobe City Coll. Technol.) YABUCHI, Yuto; SAKAI, Yuki; FUJIMOTO, Taiga; ○KOIZUMI, Takuya

Physicochemical Properties

- 2PB-153** Supported Gold Nanoparticles-Catalyzed Carboxylative Cyclization of Propargylic Amines with CO₂ (IRC3, AIST) ○MATSUO, Hideaki; CHOI, Jun-chul; FUJITA, Ken-ichi
- 2PB-154** Synthesis of functionalized arylthiophen dyes for more practical dye-sensitized solar cells and verifying its mechanism. (Grad. Sch. Technol., Shinshu Univ.) ○HARADA, Takuya; NISHII, Yoshinori; MORI, Syogo
- 2PB-155** Synthesis of Task-Specific Ionic Liquids with Luminescent Benzo-furan Skeltons (Grad. Sch. Eng., Oita Univ.) ○FUJIYOSHI, Taro; NOBUOKA, Kaoru; KITAOKA, Satoshi; ISHIKAWA, Yuichi
- 2PB-156** Withdrawn
- 2PB-157** Syntheses and properties of pi-conjugated molecules with ethynyl group (Fac. Eng., Univ. of Yamanashi; Grad. Sch. Med., Eng., Univ. of Yamanashi; Grad. Sch. Med., Eng., Univ. of Yamanashi) ○HASHIMOTO, Naoki; TANAKA, Shohei; TANAKA, Misa; MIZUNO, Masao; OGAWA, Kazuya
- 2PB-158** Chiral induction of N-confused porphyrin utilizing mandelate type ionic liquids. (Fac. Eng., Kindai Univ.; Fac. Eng., Kindai Univ.) ○SHIMODA, Yuhi; NOBUOKA, Kaoru; KITAOKA, Satoshi
- 2PB-159[#]** Synthesis and properties of isoquinacridone derivatives with pyridine rings (Grad. Sch. Sci., Osaka City Univ.) ○HORI, Chihiro; KOZAKI, Masatoshi; TACHI, Yoshimitsu
- 2PB-160** Synthesis of cationic chlorophyll derivatives using Barluenga's reagent and their optical properties (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○TAKAHASHI, Tatsuya; OGASAWARA, Shin; TAMIAMI, Hitoshi
- 2PB-161** Studies on structures and thermodynamics of tautomers of dihydropyrimidine derivatives (TMCIT; NARD inst.; Yasuda Women's Univ.; Grad. Sch. Pharm. Sci., Tohoku Univ.; Sch. Sci., Tokyo Tech.) ○IKEDA, Hiroshi; ASAKURA, Mitsuhiro; NISHIMURA, Yoshio; CHO, Hidetsura; TOYOTA, Shinji

Reactions, Cyclization, Annulation

- 2PB-162** Synthesis of isoxazolines using α -nitro ketones and alcohols in the presence of acid catalysts (Coll. Sci. Tech., Nihon Univ.) ○HANZAWA, Takuya; HAYAKAWA, Mamiko; AOYAMA, Tadashi; ITOH, Ken-ichi; OUCHI, Akihiko
- 2PB-163** Synthesis of trifluoromethylpyrroles using two kinds of alkynes. (Grad. Sch. Sci. Tech., Gunma Univ.) ○EBINUMA, Aki; SUGIISHI, Tsuyuka; AMII, Hideki
- 2PB-164[#]** Mechanistic Insights into Cyclic Thiocarbonate Synthesis using Environmentally Benign Catalysts (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○OKADA, Megumi; SHIRAKAWA, Seiji
- 2PB-165** Synthesis of 3,4-dihydro-2H-1,2-benzothiazin 1,1-dioxide derivatives by cyclization of *o*-(α -arylviny)benzenesulfonamide (Grad. Sch. Eng., Tottori Univ.) ○FUJITA, Miyuki; KOBAYASHI, Kazuhiro
- 2PB-166** Convenient Synthesis of Thalidomide Derivatives via Diels-Alder Reaction Using Furans (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ○AKITAKE, Masahiro; SONODA, Motohiro; NAKANISHI, Hiromi; TANIMORI, Shinji
- 2PB-167[#]** Collective synthesis of cis-fused heterobicycles by oxa-Michael reactions from *cis*-2-vinylcycloalkane-1-ol (Grad. Sch. Nanobiosci., Yokohama City Univ.) HLOKOANE, Oriol; IRIE, Raku; ○OIKAWA, Masato
- 2PB-168** Synthesis of anti-Bredt compound and structural analysis by 2D NMR (Coll. Sci. Eng., Kanto Gakuin Univ.) ○TAKAHASHI, Kie; IIDA, Hirokazu
- 2PB-169[#]** Chemo and stereo selective synthesis of dithiane and thiazine derivatives by reaction of arylthiocarbamic acid and dithiocarbamic acid with haloalkyloxirane derivatives (Grad. Sch. Eng., Utsunomiya Univ.) ○NIIDA, Ayato; MURAYAMA, Tomohiro; KARIKOMI, Michinori
- 2PB-170** Intramolecular Cyclization Reactions of Beta-substituted Cinnamylamides of Ethenetricarboxylate (Nara Univ. of Educ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○SUGIURA, Hirotaka; YAMAZAKI, Shoko; OGAWA, Akiya

Synthesis, Synthetic Methods

- 2PB-171** Synthesis of 7-Dimethylamino-8,10-bis(trifluoroacetyl)naphtho[1,2-d][1,3]thiazines and Its Aromatic Nucleophilic Substitution Reaction with Amines (Grad. Sch. Eng., Kobe Univ.) ○SUMITANI, Naoki; TAKAYAMA, Kyohei; OKADA, Etsuji
- 2PB-172** A Convenient Synthesis of Novel 7-Dimethylamino-4-trifluoromethyl-2,4-dihydro-1H-naphtho[1,2-d][1,3]oxazines (Grad. Sch. Eng., Kobe Univ.) TAKAYAMA, Kyohei; OTA, Norio; ○OKADA, Etsuji
- 2PB-173** Synthesis of Novel Fluorine-Containing Naphthothiazines by the Reaction of 1-Dialkylamino-2-trifluoroacetylnaphthalenes with Lawesson's Reagent (Grad. Sch. Eng., Kobe Univ.) ○TAKAYAMA, Kyohei; OKADA, Etsuji
- 2PB-174** Ring Transformation Reaction of Fluorine-Containing Naphtho [1,2-d][1,3]oxazines into Naphtho[1,2-d][1,3]thiazines with Lawesson's Reagent (Grad. Sch. Eng., Kobe Univ.) ○TAKAYAMA, Kyohei; OKADA,

Etsuji

- 2PB-175** Computational Study for the Selective Aromatic Nucleophilic Substitution of 4-Dimethylamino-2-methoxy-3-trifluoroacetylquinoline with Thiols (Fac. Eng., Kobe Univ.) OHARADA, Yusuke; OTA, Norio; KAMITORI, Yasuhiro; OKADA, Etsuji
- 2PB-176** Regioselective Nucleophilic Substitution Reaction of 2,4-Dipropylthio-3-trifluoroacetylquinoline with Amines (Grad. Sch. Eng., Kobe Univ.) OHARADA, Yusuke; OKADA, Etsuji
- 2PB-177[#]** Synthesis and reactions of 2,3-diaryltetrazolium mesoionic compounds (Grad. Sch. Eng., Nagoya Inst. of Tech.) ONAKATA, Mirai; HIRASHITA, Tsunehisa
- 2PB-178** Synthesis of Imidazo[1,5-*a*]pyridine Carbenes Bearing Bulky Substituents on 1,5-Position and Nitrogen (Fac. Eng., Gifu Univ.) OSHIBATA, Yoshifuru; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-179** Synthesis of 5-sulfonyl imidazo[1,5-*a*]pyridine carbenes (Fac. Eng., Gifu Univ.) OKANAMORI, Masaya; HATTORI, Suzuka; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-180** Synthesis of novel 6*H*-pyrrolo[1,2-*a*][1]benzazepine derivatives by hydrogen bromide-mediated cyclization of 2-([2-(pyrrol-1-yl)phenyl]methyl)propanedinitrile derivatives (Grad. Sch. Eng., Tottori Univ.) OUEYAMA, Takuma; NOGI, Takashi; NAKAJIMA, Akane; KOBAYASHI, Kazuhiro
- 2PB-181** Synthesis of novel skeletons, [1,4]oxathiino[2,3-*d*]pyrimidine and pyrimido[5,4-*b*][1,4]thiazine, starting with DCSMP (Grad. Sch. Eng., Tottori Univ.; Kumiai Chemical Industry CO., LTD.) OYAMASAKI, Kota; KOBAYASHI, Kazuhiro; HIYOSHI, Hidetaka; UMEZU, Kazuto
- 2PB-182** Synthesis of thiazine-2(1*H*)-one and benzothiazine-2(1*H*)-one *O*-(*tert*-butyl)oximes using *N*-Alkoxyacylimidoyl halides and aminothiols (Coll. Sci. Tech., Nihon Univ.) OASHIRO, Kenshiro; HAYAKAWA, Mamiko; AOYAMA, Tadashi; OUCHI, Akihiko
- 2PB-183[#]** α -Formylation of α, β -unsaturated esters and its utilization to synthetic chemistry (Sch. Sci. Tech., Kwansei Gakuin Univ.) OMORIYAMA, Mizuki; TSUTSUMI, Takeshi; AMINO, Sayo; TANABE, Yoo
- 2PB-184[#]** Utilization of chlorocarbonylsulfonyl chloride (CCSC) reagent: Novel synthetic method for preparing 2(3*H*)-benzothiazoles by hydride reduction of 2(3*H*)-benzothiazole-2-ones (Sch. Sci. Tech., Kwansei Gakuin Univ.) ONUKATA, Kanoko; KAKUNO, Masatoshi; IZAWA, Syotaro; TANABE, Yoo
- 2PB-185[#]** Synthesis of 4,4-Dimethyl-2-(2-pyrrolyl)-2-oxazolines (Grad. Sch. Eng., Kobe Univ.) OMORII, Kazuki; MARI, Daichi; OKANO, Kentaro; MORI, Atsunori
- 2PB-186** Synthesis of β -Carbolinone Using the Synthesis of 3-Amino-2-pyridones (, Mie University) MIURA, Ryoya; OGOTO, Shinsuke; HACHIYA, Iwao
- 2PB-187** Synthesis and biological activity of 4-arylimidazole derivatives as drug candidates for diabetic complications. (Fac. Sci., Toho Univ.) MORIKAWA, Kenta; HIGASHI, Shoko; SASAKI, Kaname; SAITO, Ryota
- 2PB-188** Development of new photoredox-catalyzed desulfonate carbon-carbon bond forming reaction (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; OKONDO, Atsushi; NATSUME, Mana; MUROFUSHI, Ryota; YODA, Hidemi

Organic Chemistry -Reaction and Synthesis- Organic Photochemistry

- 2PB-191** Stereoselective photocyclization reaction of tropolone using optically active amino alcohols (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) OFUJIMORI, Azusa; YAMADA, Shinji
- 2PB-192** Cross [2 + 2] photocycloaddition of aromatic conjugated ketones through cation - π interactions (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ONITANAI, Yukari; YAMADA, Shinji
- 2PB-193[#]** Development of lactones from conjugated dienes via regioselective bifunctionalization of olefins (Gifu Pharm. Univ.) OTAKEDA, Mitsumi; MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika
- 2PB-194** Synthesis and light cytotoxicity of glucose containing photosensitization molecule (NIT, Yonago College) OYOSHIOKA, Yuka; NONOMURA, Takuya; LOGHAPRIYA, Sivasamy; URUMA, Yoshiyuki; SUZUKI, Akihiro; KAMEYAMA, Masayuki; ONUMA, Kunisige; OKADA, Futosi
- 2PB-195** Comparison of photosensitizers in the ene reaction of singlet oxygen and 2,3-dimethyl-2-butene (Coll. Sci. Tech., Nihon Univ.) OSAGA, Tomoka; HAYAKAWA, Mamiko; AOYAMA, Tadashi; OUCHI, Akihiko
- 2PB-196[#]** Synthesis of D- π -A Type Imidazo[1,2-*a*]pyridinium Salts and Their Photophysical Properties (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) OYAGISHITA, Fumitoshi; OKAMOTO, Masaki; KAWAMURA, Yasuhiko
- 2PB-197[#]** Photon Upconversion of a Cage Compound Possessing Two Diphenylanthracene Moieties (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) OKOKITA, Yuto; MATSUI, Yasunori; KURAMOTO, Yutarou; OHTA, Eisuke; IKEDA, Hiroshi
- 2PB-198** CPL derivation by cyanine dye doped chiral synthesized bilayer membrane (Grad. Sch. Eng., Oita Univ.) OTODAKA, Serina; ISHIKAWA, Yuichi; NOBUOKA, Kaoru

- 2PB-199[#]** Experimental Study on the Thermal-reaction Mechanism of Lophine Derivative with a Peroxide Structure (Hiroshima Univ.) OKAMOTO, Kazunori; HATANNO, Sayaka; ABE, Manabu

Sunday, March 17, PM

(15 : 00~16 : 30)

Biofunctional Chemistry ; Biotechnology

Carbohydrate

- 2PC-001** NMR analysis of the dynamical conformations of LewisX oligosaccharides (Sch. Mat. Sci., JAIST) OTASUOKA, Hiroaki; TAMAGUCHI, Takumi
- 2PC-002** Synthesis of glyco-dendrimers having gossypol cores (Fac. Life Sci., Toyo Univ.) OSEKIGUCHI, Maki; AMANO, Yoshitugu; KANEKO, Saki; YANO, Tomohiro; HASEGAWA, Teruaki
- 2PC-003** Conformational design of lectin high affinity glycans based on understanding the dynamical interaction process (Sch. Mat. Sci., JAIST) ONAKANE, Kenta; SUZUKI, Tatsuya; YANAKA, Saeko; KATO, Koichi; YAMAGUCHI, Takumi
- 2PC-004[#]** Solid phase synthesis of N-Acetyl mannosamine α -1-phosphate repeating units from *Neisseria meningitidis* (Fac. Pharm. Sci., TUS) OCHIBA, Aki; OGAWA, Yuki; SHIRAIISHI, Tomomi; NORO, Mihoko; HARA, Rintarou; SATO, Kazuki; WADA, Takeshi
- 2PC-005** Synthesis of molecular probes to detect glycosylation of phosphatidic acid. (Coll. Life Sci., Ritsumeikan Univ.; RIKEN) OUESHIMA, Rina; TODA, Nahoko; GREIMEL, Peter; KIKUMA, Takashi; TAKEDA, Yoichi
- 2PC-006** Preparation of carbohydrate-appended nata de coco hydrogels by click reaction and their application for probing carbohydrate-carbohydrate interactions (Fac. Life Sci., Toyo Univ.) OYOSHIDA, Keisuke; HASEGAWA, Teruaki

Lipid, Membrane

- 2PC-007** >Cell-penetrating activities of amphiphilic peptides possessing an alkyl chain (Fac. Sci. Tech., Ryukoku Univ.) OHATANNO, Mizuhiko; MIYATAKE, Tomohiro
- 2PC-008** Effect of hydrophilic group structure of phospholipids on the giant vesicle formation by electroformation (Grad. Sch. Sci. Technol., Shinshu Univ.) OMATSUMO, Asado; SAEKI, Daisuke; OKUMURA, Yukihiro
- 2PC-009[#]** Oxidation of Low-density Lipoprotein and its Characterization (Coll. Sci., Rikkyo Univ.) OMORISHITA, Tomoki; TABUCHI, Mari
- 2PC-010[#]** Stability change of phase-separated structure of negatively charged lipid membrane by addition of various cations (Sch. Mat. Sci., JAIST) HIKICHI, Keita; ONAGATA, Yoshitsugu; HIDESE, Ryota; FUJIWARA, Shinsuke; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 2PC-011[#]** Effect of hydrophilicity / hydrophobicity balance of surfactant on dynamics of biomimetic membrane (JAIST) OSASAKI, Yousuke; TSUJINO, Yoshio; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 2PC-012** Lipid-lipid interactions of a novel brain glycolipid cholesteryl- β -glucoside in bilayer model membrane (Grad. Sch. Sci., Osaka Univ.) OFUKUDA, Nanami; HANASHIMA, Shinya; MALABED, Raymond; MURATA, Michio; GREIMEL, Peter; HIRABAYASHI, Yoshio
- 2PC-013** Solid state NMR-derived membrane properties of inner leaflet lipid POPE with selective deuteration at the sn-1 acyl chain (Grad. Sch. Sci., Osaka Univ.) OMUKOGAWA, Akane; TSUCHIKAWA, Hiroshi; MURATA, Michio
- 2PC-014** Interactions between bacteriorhodopsin and surrounding model lipids as revealed by solid state 31P NMR (Grad. Sch. Sci., Osaka Univ.) OKATO, Sho; MURATA, Michio; UMEGAWA, Yuichi
- 2PC-015** Solid state NMR study of the rigid lactosylceramide domains in mixed lipid membranes (Grad. Sch. Sci., Osaka Univ.) OMATSUBARA, Yuki; HANASHIMA, Shinya; IKEDA, Ryuji; MURATA, Michio
- 2PC-016[#]** An approach to insect body lipids by FTIR spectroscopy (Grad. Sch. Sci., Osaka Univ.) OKANEKO, Fumitoshi; KATAGIRI, Chihiro; SAZAKI, Gen; NAGASHIMA, Ken

Biotech

- 2PC-017[#]** Study on photoinactivation of *Staphylococcus aureus* (Grad. Sch. Eng., Toin Univ. of Yokohama) OOSHIRO, Mana; HASUNUMA, Yuya; SAITO, Kiyoshi
- 2PC-018[#]** Research on correlation between the carotenoid pigments produced by *Staphylococcus aureus* and the bacterial photoinactivation phenomenon (III) (Grad. Sch. Eng., Toin Univ. of Yokohama) ONISHIMURA, Tomoya; HASUNUMA, Yuya; SAITO, Kiyoshi
- 2PC-019[#]** Bioimaging of the cell stress by FRET based fluorescence changes using GFP-RFP fusion protein (TUT) OKODAIRA, Masayuki; AKIMOTO, Takuo
- 2PC-020** Selective measurement of histidine using paper-based analytical devices and examination of reaction conditions (Grad. Sch. Info. Sci., Hiroshima City Univ.) OKUGIMIYA, Akimitsu; FUJIKAWA, Akane; SAITO, Toru; KOHDA, Jiro; NAKANO, Yasuhisa; TAKANO, Yu

- 2PC-021[#]** Synthesis of the AIE dye-DNA conjugate and the study on application possibility for biosensing (Konan Univ.) MURASHIMA, Takashi; OTANI, Tomoki
- 2PC-022[#]** Detection of organophosphorus pesticides using recombinant *E. coli* expressing organophosphorus hydrolase fused with pH sensitive GFP (TUT) OHYANO, Yusei; NONODA, Hayato; AKIMOTO, Takuo
- 2PC-023[#]** Promotion of proliferation of microalgae *Scenedesmus* sp.YK by methanol and symbiotic bacteria (Coll. Industrial Tech., Nihon Univ.) OKANKE, Masafumi; YAGI, Osami; SATO, Toshiyuki; HIAKI, Toshihiko
- 2PC-024** Molecularly Imprinted Nanocavities for Highly Sensitive Fluorescent Detection of Biomarker Glycoproteins (Grad. Sch. Eng., Kobe Univ.) MORISHIGE, Takahiro; OTAKANO, Eri; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi

Biocatalytic Reaction

- 2PC-025[#]** Lipase-Catalyzed tert-Butoxycarbonylation of Alcohols (Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) OKISHI, Naoki; KOJIMA, Hideo
- 2PC-026[#]** Effect of Light on Asymmetric Reduction of Ketones Using Cyanobacterium *Synechocystis* sp. PCC6803 (Coll. Life Environ. Adv. Sci., Osaka Pref. Univ.; Fac. Pharm., Himeji Dokkyo Univ.; Fac. Sci., Josai Univ.) OTANAKA, Shusei; KOJIMA, Hideo; TAKEDA, Satomi; YAMANAKA, Rio; TAKEMURA, Tetsuo; NAKAMURA, Kaoru
- 2PC-027[#]** Biotransformations using Aquatic Plants (Coll. Life Environ. Adv. Sci., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) OTSUJI, Takuma; AZUMA, Kou; KOJIMA, Hideo
- 2PC-028** Studies on Preparation of Optically Active Biaryl Derivatives using Biocatalysts (Sch. Sci. Eng., Meisei Univ.) MATSUMOTO, Kazutsugu; OFUKUCHI, Naoki; KITABAYASHI, Ryota

Other

- 2PC-029[#]** Synthesis of the auxin analogs to clarify the biological activity of IBA. (Grad. Sch. Eng., Kanagawa Univ.) OYAMAMOTO, Haruka; SHIMADA, Misaki; YAMADA, Takeshi; NAKAGAWA, Rie; OKAMOTO, Sentarou

Molecular Recognition

- 2PC-030[#]** Resonance Raman spectroscopy of fucoxanthin aggregate: time and excitation wavelength dependences (Sch. Sci. Tech., Kwansei Gakuin Univ.) OHASHIMOTO, Hiroki; SUZUKI, Hiroaki; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-031[#]** Study on stabilization of fine Fe (0) particles on RGO (Sch. Sci. Tech., Kwansei Gakuin Univ.) OBAN, Yusuke; HASHIMOTO, Hideki
- 2PC-032[#]** Time-resolved absorption spectroscopy on carotenoids fixed in polymer films: application of Lissajous scanner (Sch. Sci. Tech., Kwansei Gakuin Univ.) OHINO, Kazuki; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-033[#]** Investigation of the optical properties of β -Apo-8' -carotenal using electro-modulation absorption spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) OINOUE, Taiki; SETO, Shota; HORIBE, Tomoko; HORIUCHI, Kota; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-034** Analysis of the ICT excited state of *cis*- β -Apo-8' -carotenal using femtosecond time-resolved absorption spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) OHORIUCHI, Kota; URAGAMI, Chiasa; INOUE, Taiki; YUKIHIRA, Nao; KOSUMI, Daisuke; HASHIMOTO, Hideki
- 2PC-035** Generation of sub-20 fs visible laser pulses and the measurement of transient absorption of carotenoids in solution (Sch. Sci. Tech., Kwansei Gakuin Univ.) OINOUE, Shota; URAGAMI, Chiasa; FUJIWARA, Masazumi; HASHIMOTO, Hideki
- 2PC-036** Incorporation of carotenoids into the reaction centers from the carotenoidless mutant of a purple photosynthetic bacterium *Rhodospira rubra* R26.1 (Sch. Sci. Tech., Kwansei Gakuin Univ.) OMITARAI, Mayu; YOSHIDA, Marina; YUKIHIRA, Nao; URAGAMI, Chiasa; GARDINER, Alastair; COGDELL, Richard; HASHIMOTO, Hideki
- 2PC-037** Incorporation of carotenoids into the chromatophores from the carotenoidless mutant of a purple photosynthetic bacterium *Rhodospira rubra* R26.1 (Sch. Sci. Tech., Kwansei Gakuin Univ.) OYOSHIDA, Marina; MITARAI, Mayu; YUKIHIRA, Nao; URAGAMI, Chiasa; GARDINER, Alastair T.; COGDELL, Richard J.; HASHIMOTO, Hideki
- 2PC-038** Synthesis of novel molecular probes toward simultaneous detection of two type of enzymes (Fac. Life Med. Sci., Doshisha Univ.) OISHIDA, Kirara; OE, Yohei; OHTA, Tetsuo
- 2PC-039** Synthesis of novel small fluorescent molecular probes for chymotrypsin detection (Fac. Life Med. Sci., Doshisha Univ.; Fac. Life Med. Sci., Doshisha Univ.) OKADOTA, Yukari; OE, Yohei; OHTA, Tetsuo
- 2PC-040** Properties of lipid membranes containing various zinc chlorins (Fac. Sci. Tech., Ryukoku Univ.) OSUGIYAMA, Kazuo; MIYATAKE, Tomohiro
- 2PC-041** Hybridization of synthetic zinc chlorophyll derivatives with light-harvesting complexes chlorosomes of green photosynthetic bacteria (Fac. Sci. Eng., Kindai Univ.) OSAGA, Yoshitaka; YAMASHITA, Hayato
- 2PC-042** Synthesis and Self-aggregation of Bacteriochlorophyll-*d* Analogs

- Possessing a Hydrocarbon Group at the 3rd Position (Grad. Sch. Life Sci., Ritsumeikan Univ.) OKANEHISA, Seiji; TAMIAMI, Hitoshi
- 2PC-043** Self-aggregation of zinc chlorophyll derivatives possessing an alkoxy-carbonyl group at the 7-position (Fac. Sci. Tech., Ryukoku Univ.; Coll. Life Sci., Ritsumeikan Univ.) OYUASA, Takafumi; TAMIAMI, Hitoshi; MIYATAKE, Tomohiro
- 2PC-044** Substituent Effect of Alky Group on Polycationic P-Porphyrin Sensitized Photodynamic Inactivation of *E. coli* under Visible Light Irradiation (Fac. Eng., Univ. of Miyazaki) OWATANABE, Kaho; MATSUMOTO, Jin; SHIRAGAMI, Tsutomu
- 2PC-045** Photo-antibacterial activity and DNA-photocleavage activity of photosensitizing Zn(II)-porphyrin derivatives and triaryl methane dyes by visible LED-irradiation (Fac. of Sci., Okayama Univ. of Sci.) YAMAMOTO, Daiki; AKAYAMA, Shogo; HARADA, Nahoko; MURE, Tomoe; YAMAUCHI, Ryota; INOGUCHI, Masahiko; ODO, Junichi
- 2PC-046** Enhancement effects of hypoxic cell radiosensitizer on sonodynamic therapy using 5-aminolevulinic acid (Grad. Sch. Biosci. Bioind., Tokushima Univ.) OFUTAWAKA, Mana; KUSUHASHI, Yuki; FUJIWARA, Yuri; KONISHI, Daisuke; YAMADA, Hisatsugu; OSAKI, Tomohiro; NAKAJIMA, Motoo; ISHIZUKA, Masahiro; TANAKA, Tohru; YAMANAKA, Nobuyasu; KURAHASHI, Tsukasa; UTO, Yoshihiro
- 2PC-047** Photodynamic Effect of P-Porphyrin Complex with Axial Glucosyl Ligand on Cancer Cells (Fac. Eng., Univ. of Miyazaki; Fac. Med., Univ. of Miyazaki) OTAJIRI, Hiromi; MATSUMOTO, Jin; NGUYEN NHAT HUYNH, Mai; YAMAGUCHI, Yuuya; HISHIKAWA, Yoshitaka; IMAMURA, Naoya; IKENOUE, Makoto; NANASHIMA, Atsushi
- 2PC-048** Development of a Novel Benzotriazine 1,4-Dioxide Sensitizer with Cell Nucleus Targeting and Its Radiosensitizing Effect for Hypoxic Tumor (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ONISHIYAMA, Mao; HANYU, Ayaka; YAMADA, Hisatsugu; UTO, Yoshihiro
- 2PC-049** Development of novel BPA-Tirapazamine hybrid BNCT agent targeting hypoxic tumor cells (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) OTANAKA, Yuya; SHINOHARA, Yusei; MASUNAGA, Shin-ichiro; SANADA, Yu; YAMADA, Hisatsugu; UTO, Yoshihiro
- 2PC-050** Synthesis study of near-infrared compatible photosensitizing molecule (NIT, Yonago College) OHAMADA, Koki; LOGHAPRIYA, Sivasamy; URUMA, Yoshiyuki; SUZUKI, Akihiro; OKADA, Hutoshi; ONUMA, Kunishige; PING-SHAN, Lai
- 2PC-051** Synthesis of 1,4-dimethylanthracene derivatives and their reaction characteristics in the presence of singlet oxygen (Coll. Sci. Eng., Aoyama Gakuin Univ.) OKISAWA, Kento; TANIGUCHI, Gouki; KURIHARA, Ryoisuke; TANABE, Kazuhito
- 2PC-052[#]** Morphological Changes of Self-assembled Structures by Single-Bond Rotation (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Sch. Mat. Sci., JAIST) ORYU, Yunosuke; SHIMOKAWA, Naofumi; TAKAGI, Masahiro; MURAOKA, Takahiro
- 2PC-053[#]** Product analysis of electrochemical oxidation of polyphenols (Grad. Sch. Maritime Sci., Kobe Univ.) OYAMAMOTO, Kenji; HOTTA, Hiroki; YAMAGUCHI, Satoko; KIMURA, Yukihiro; OSAKAI, Toshiyuki
- 2PC-054** Design and synthesis of radical probe with photolabile group for DNP-NMR analysis of dynamic water surrounding soft matter (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) OLEE, Gyeorye; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu

Cell

- 2PC-055** Gelation of natural chlorosomal pigments extracted from the mutant strains of green sulfur bacteria (Kurume Univ. Sch. of Med.) OHARADA, Jiro; KINOSHITA, Yusuke; MIZOGUCHI, Tadashi; YAMAMOTO, Ken; TAMIAMI, Hitoshi
- 2PC-056[#]** Targeting Integrin for Anti-cancer Therapy via Synthetic Peptides (OIST) ROY, Sonu; OHU, Xunwu; ZHANG, Ye
- 2PC-057[#]** Engineering a vascularized spheroid and optimizing conditions for vasculogenesis in a microfluidic device (Grad. Sch. Environmental Studies, Tohoku Univ.) OTERAI, Takato; NASHIMOTO, Yuji
- 2PC-058[#]** Fabrication of Growth Factor Conjugated Injectable IPN gel and Controlling the Conjugation-Linker Length to Improve Three-Dimensionally Cultured Chondrocyte Function (Grad. Sch. Sci., TUS) OYAMAGUCHI, Hiro; ISHIKAWA, Shohei; OSAWA, Shigehito; IJIMA, Michihiro; OTSUKA, Hidenori
- 2PC-059[#]** Electrochemical fabrication of fibrin gels for cell culture (Grad. Sch. Environmental Studies, Tohoku Univ.) OKUMAGAI, Tatsuki; INO, Kosuke; TAIRA, Noriko; NASHIMOTO, Yuji; SHIKU, Hitoshi
- 2PC-060** Preparation of electrospun polymer nanofibers modified with egg shell membrane peptides for cell culture (KIT) OYOSHIKAWA, Takashi; WAKU, Tomonori; TANAKA, Naoki

Nucleic Acid

- 2PC-061[#]** Synthesis and properties of photo-responsive DNA probes containing thioxanthone and nitrophenethyl group (Sch. Life Sci. Tech., Tokyo Tech.) OTAKESHITA, Leo; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-062** Synthesis and function of oligodeoxynucleotides bearing phenolic hydroxyl group at uridine base (Coll. Sci. Eng., Aoyama Gakuin Univ.)

- YOKOTA, Shohei; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PC-063** Synthetic study toward efficient synthesis of 2',3'-bridged arabinofuranosylthymine derivatives (Sch. Life Sci. Tech., Tokyo Tech.) ○INOUE, Atsushi; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-064**[#] Development of novel DNA photo-cross-linker with pyranocarbazole via D-threoninol (Sch. Mat. Sci., JAIST; NICCA CHEMICAL CO., LTD.) ○YAMAGUCHI, Tsubasa; INATSUGI, Takahiro; TAKAMURA, Masahiko; ISHIMARU, Isao; KOTO, Ayako; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-065**[#] Solid-phase Synthesis of an Antisense Oligonucleotide Having Amide-linked RNA Segments at the Both Ends (Teikyo Univ. of Sci. Grad. Sch. Sci. and Eng.; Teikyo Univ. of Sci.) ○IWASE, Reiko; OCHIKUBO, Tatsuya; OHKUBO, Yusuke; YAJIMA, Hiroki; KOMIYA, Takumi; YONEYAMA, Kento; FURUYA, Mitsuki; OGIHARA, Yuta
- 2PC-066**[#] Synthesis and triplex formation of modified oligonucleotides containing amino groups at the 5'-positions of ribose moieties (Sch. Life Sci. Tech., Tokyo Tech.) ○TANABE, Masako; WATANABE, Lintaro; NISHIZAWA, Shuhei; OHKUBO, Akihiro
- 2PC-067**[#] Synthesis and properties of antiparallel triplex-forming oligonucleotides containing 2-aminoquinoline derivatives (Sch. Life Sci. Tech., Tokyo Tech.) ○TSUKAMOTO, Masahiro; NISHIZAWA, Shuhei; WATANABE, Lintaro; OHKUBO, Akihiro
- 2PC-068** Enzymatic synthesis of DNA incorporating photocaged 5-hydroxymethyldeoxyuridine (Sch. Life Sci. Tech., Tokyo Tech.) ○YAMADA, Yuji; TAKESHITA, Leo; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-069**[#] Synthesis and properties of oligonucleotides having alkyl carbamoyl groups at 2' position (Sch. Life Sci. Tech., Tokyo Tech.) ○KISHIMURA, Tomohiro; TOMORI, Takahito; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-070** Incorporation of peptide into 2' position of oligonucleotide by Native Chemical Ligation (Sch. Life Sci. Tech., Tokyo Tech.) ○MARUYAMA, Atsuya; YOSHIDA, Keita; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-071** Molecular structure Characteristics of IgG-aptamer using molecular dynamics simulation (Sch. Eng., Nihon Univ.) ○ISHII, Seiichiro; YOSHIDA, Hisae; MASUKAWA, Keisuke; YATABE, Yuuki; AKITA, Kazumasa; INOMATA, Emire; ISHIKAWA, Takeshi; SAKAMOTO, Taiichi; YAMAGISHI, Kenji
- 2PC-072** Design of neutralizing sequence for multivalent nucleic acid aptamer (Col. Arts and Sci., The Univ. of Tokyo) ○MIYAKAWA, Masato; YOSHIMOTO, Keitaro; YOSHITOMI, Toru; YAMAGUCHI, Akane; WAKUI, Koji; SAITO, Shingo; SHIBUKAWA, Masami; MIYAUCHI, Saori; HURUSHO, Hitoshi
- 2PC-073** Selection of the tumor necrosis factor- α (TNF α)-binding DNA aptamers using the method of micro beads-assisted capillary electrophoresis (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SAWADA, Ryo; WAKUI, Koji; YOSHITOMI, Toru; YOSHIMOTO, Keitaro
- 2PC-074** Synthesis of Indolequinone-tethered oligodeoxynucleotides for accumulation in hypoxic cells (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MOTOHASHI, Yuto; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PC-075**[#] Regulation of enzymatic activity of DNase using DNA photo-cross-linking (Sch. Mat. Sci., JAIST) ○WATANABE, Yasuhiro; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-076** Photoreaction of bromouracil in pyrene conjugated DNA-RNA hybrid (Suzuka Univ. of Med. Sci.; Dep. Chem., Sch. Sci., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○TASHIRO, Ryu; YUM, Jihye; PARK, Soyoun; HASHIYA, Fumitaka; SUGIYAMA, Hiroshi
- 2PC-077**[#] Development of a selective labeling reagent for pseudouridine in RNA (IMRAM, Tohoku Univ.) ○OKAMURA, Hidenori; NAGATSUGI, Fumi
- 2PC-078** Study on the Photochemical Reactions of Hechst Dyes with Non-canonical DNA Structures (Grad. Sch. Sys. Eng., Wakayama Univ.) ○MIWA, Yoshiko; SETOUE, Satoshi; SAKAMOTO, Takashi
- 2PC-079** RNA imaging in vivo with 8-position modified guanosine derivatives (Fac. Med., Univ. of Miyazaki) ○ISHIZUKA, Takumi; XU, Yan
- 2PC-080**[#] Synthesis of amphiphilic DNA with hydrophobic unit that was substituted by acetylene group (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TAKEYAMA, Koutarou; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PC-081**[#] Discrimination of DMD mRNA and exon skipping mRNA using pyrene probes (KIT) WATARI, Yu; ○OHTSUKA, Yui; KOBORI, Akio
- 2PC-082**[#] Development of DNA photo-cross-linkable probe for photo-triggered double duplex DNA formation (Sch. Mat. Sci., JAIST) ○MAEDA, Daisuke; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-083** Nuclease-resistant G-Quadruplex DNA aptamer possessing VEGF A-like pharmacological activity (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HAYASHI, Misako; YOSHITOMI, Toru; KIMURA, Keiko; WAYAMA, Fumiya; FURUSHO, Hitoshi; YOSHIMOTO, Keitaro
- 2PC-084** Synthesis of acetylene-tagged Hoechst derivatives and their application to detection of DNA structural changes (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MAKANAI, Hiroki; KURIHARA, Ryohsuke; TANABE, Kazuhito
- 2PC-085**[#] Synthesis of 3-(naphthalen-1-ylethynyl)-3-deaza-2'-deoxyguanosine as an environmentally sensitive fluorescent nucleoside (Sch. Eng., Nihon Univ.) ○KOBOKU, Shoutoku; YANAGI, Masaki; SUZUKI, Azusa; SAITO, Yoshio
- 2PC-086**[#] Development of RNA FISH in living cells using RNA photo-cross-linkable beacon probe (Sch. Mat. Sci., JAIST) ○HASHIMOTO, Misaki; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-087** Stability and activity of circular thrombin-binding DNA aptamers (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○NAKAMURA, Rei; YOSHIMOTO, Keitaro; YOSHITOMI, Toru
- 2PC-088** Photoresponsive liposomes containing a malachite green derivative for G-quadruplex probe (Dept. of Chem. Eng., NIT, Nara College) TAN, Shao Ying; NISHIMOTO, Noriko; ○UDA, Ryoko
- 2PC-089**[#] Elucidation of the protection mechanism for G4 DNA structure by G4 binding protein (Fac. Sci., Shizuoka Univ.) ○NAGANO, Yuki; HAYANO, Takahiro; OYOSHI, Takanori
- 2PC-090**[#] Construction of DNA three-way junction structures containing thiol ligands at the junction core (Grad. Sch. Sci., The Univ. of Tokyo) ○FUSE, Nobuyuki; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 2PC-091**[#] Photo-triggered construction of DNA nanostructure on the surfaces of liposomes by using DNA photo-cross-linking (Sch. Mat. Sci., JAIST) ○UEHARA, Nobuharu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-092** Fluorescence properties of pyrene-labeled DNA duplexes on B-Z transition (Univ. of Hyogo) ○NAKAHAMA, Kiseki; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 2PC-093** Tetraphenylethene arrays constructed on DNA duplexes. (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUMI, Yuki; NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 2PC-094** Aggregation of diphenylbutadiynes using DNA (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUMOTO, Akihiro; KOU, Reina

Protein

- 2PC-095**[#] Development of photo-cross-linkable artificial peptide for DNA (JAIST) ○QIU, Zhiyong; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-096**[#] Development of Membrane Penetrating Peptides for E.coli (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○INOUE, Gou; TOYOHARA, Daichi; MORI, Tetsushi; MURAOKA, Takahiro
- 2PC-097**[#] Study on NO reactivity of de novo designed protein having three helix bundle structure (FIRST, Konan Univ.) ○NAKAYAMA, Shota; FUJII, Satoshi
- 2PC-098**[#] Design of Novel Stimuli-Responsive Self-assembling Peptides (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIDA, Atsuya; AJIOKA, Itsuki; WATANABE, Go; MURAOKA, Takahiro
- 2PC-099**[#] Incorporation Reaction into a Ferritin Mutant in Organic Solvent (Grad. Sch. Sci., Osaka City Univ.) ○KUSUMOTO, Tatsuya; HIROTSU, Masakazu; NISHIOKA, Takanori; NAKAJIMA, Hiroshi
- 2PC-100**[#] Dendritic poly(L-lysine) modification of Titanium Surface for implant materials (Fac. Sci. Tech., Ryukoku Univ.) ○SONE, Tomoki; TOMIZAKI, Kin-ya; IMAI, Takahito
- 2PC-101** Preparation of peptide nanofibers with precisely controlled fiber length and their application for antigenic peptide delivery (KIT) ○NISHIYAMA, Kaito; KOEDA, Sayaka; WAKU, Tomonori; TANAKA, Naoki
- 2PC-102**[#] Development of peptide-based drug delivery system for mitochondria targeting (Fac. Sci. Tech., Ryukoku Univ.) ○KAWAMURA, Rio; UEMATSU, Yuta; YAMASAKI, Masayuki; TOMIZAKI, Kin-ya
- 2PC-103**[#] Synthesis of collagen model peptide with carboxyl groups (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○NAKAMOTO, Kisaki; TOMIZAKI, Kin-ya
- 2PC-104** Construction of artificial nanopores by switching a secondary structure using designed peptides (FIRST, Konan Univ.) ○AKAYAMA, Shiori; SHIMIZU, Keisuke; HAMADA, Yoshio; KAWANO, Ryuji; USUI, Kenji
- 2PC-105**[#] Construction of Artificial Flavoproteins in a Mimicking Cell Membrane as a Reaction Field (RPP., Oita Univ.) ○OKA, Yoshimi
- 2PC-106** Photo-cleavable PNA peptide controlling gene expression by change of G-quadruplex structure formation (FIRST, Konan Univ.) ○SAKASHITA, Shungo; OKADA, Arisa; HAMADA, Yoshio; ENDOH, Tamaki; USUI, Kenji
- 2PC-107** Crystal Structure Analysis of a Complex of a Reaction Intermediate of Hydroxymethylbilane Synthase and a Substrate Analogue (Kurume Univ. Sch. of Med.; Grad. Sch. Eng., Kyushu Univ.; Yokohama Coll. of Pharmacy; Fac. Med., Univ. of Miyazaki) ○SATO, Hideaki; SUGISHIMA, Masakazu; TSUKAGUCHI, Mai; MASUKO, Takahiro; OMATA, Yoshiaki; WADA, Kei; HISAEDA, Yoshio; YAMAMOTO, Ken
- 2PC-108**[#] Cell adhesion ability of nanostructure consisting of amyloid beta peptide fragments by protease digestion (FIRST, Konan Univ.) ○YOKOTA, Shin-ichiro; MASHIMO, Yasumasa; HARADA, Yoji; MIE, Masayasu; KOBATAKE, Eiry; USUI, Kenji
- 2PC-109**[#] Novel Basic Poly(amino acid) Coproduced with Poly(ϵ -L-lysine) by a Strain of *Streptomyces* sp.: Isolation and Characterization of Poly(diaminopropanoic acid) (Sch. Eng., The Univ. of Shiga Pref.) KATO, Yoshinao; INABA, Haruka; MURO, Shogo; ○TAKEHARA, Munenori
- 2PC-110** Synthesis and purification of gold nanoparticles by peptide mineralization with microbeads and nucleic acids (FIRST, Konan Univ.) ○OURA, Maho; OZAKI, Makoto; HAMADA, Yoshio; USUI, Kenji
- 2PC-111** Attempt to identify the interaction between protein translocation

- motor SecDF and its partners (Grad. Sch. Bio. Sci., NAIST) OKAWASE, Takuto; TANAKA, Yoshiaki; HARUYAMA, Takamitsu; TSUKAZAKI, Tomoya
- 2PC-112[#]** Conformational changes of ferredoxin from Cyanobacteria induced by redox of [2Fe2S] cluster (IPR, Osaka Univ.) OHNISHI, Yusuke; TANAKA, Hideaki; OKUMURA, Hideo; BABA, Kiyoki; KAWANO, Yoshiaki; KUMASAKA, Takashi; TESHIMA, Keizo; Ikegami, Takahisa; KURISU, Genji
- 2PC-113[#]** Preparation of antibodies for a Hoveyda-Grubbs catalyst (Grad. Sch. Sci., Osaka Univ.) OKABAYASHI, Shihō; TAKASHIMA, Yoshinori; MATSUO, Takashi; YAMAGUCHI, Hiroyasu
- 2PC-114[#]** Optimization of Reactive Group for Obtaining Covalent Drug (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ONAKAMURA, Manami; TAKI, Masumi

Analytical Chemistry

- 2PC-117[#]** Evaluation of Reactivity on Acetone Analytical Chip using Porous Glass Impregnated with Phenylhydrazine Compounds (Tohoku Inst. of Tech.) OITO, Kodai; KAWAMURA, Naoto; SUZUKI, Yoshifumi; Y. MARUO, Yasuko
- 2PC-118** Study on 2,3-dinitroquinazarin as a color former for spectrophotometric analysis (Sch. Eng., The Univ. of Shiga Pref.) ONAKAGAWA, Hidemi; KATO, Shin-ichiro; TAKEHARA, Munenori; MARUO, Masahiro; KITAMURA, Chitoshi
- 2PC-119[#]** Temperature dependence for a measurement of formaldehyde in solution using α developed β -diketone impregnated porous chip (Tohoku Inst. of Tech.) OKAZAWA, Hiroki; SUZUKI, Asuya; Y. MARUO, Yasuko
- 2PC-120[#]** Atomic emission analysis of halogenated organic compounds in droplet using a dielectric barrier discharge microplasma (Coll. Industrial Tech., Nihon Univ.) OTAKANO, Masashi; SAITOH, Kzunori; NAKAGAMA, Taturō
- 2PC-121[#]** Simultaneous determination of oleic and elaidic acids by Raman spectroscopy with multivariate analysis (Sch. Eng., Nihon Univ.) ONUMATA, Yasushi; KOBAYASHI, Hayato; TANAKA, Hiroyuki
- 2PC-122[#]** Development of Thermal Lens Spectroscopy by Deep Ultraviolet Excitation for Label-Free and High-Sensitive Detection for Micro-Analysis (Grad. Sch. Eng. Sci., Kyushu Univ.) KOHIRATA, Shinjuro; ISODA, Miki; HARATA, Akira
- 2PC-123[#]** The pH effect of the Schiff's reagent on the sensitivity of the analytical chip for nonanal detection (Tohoku Inst. of Tech.) ABE, Natsumi; MARUO-YAMADA, Yasuko
- 2PC-124** Evaluation of particle size of nanoparticles by SAXS (Nagoya Municipal Industrial Research Institute) OKAWASE, Satoru; ONO, Satomi
- 2PC-125** Elemental Analysis of Excavated Earthenware from the ruins of the Edo period 2 (Fac. Sci., Kanagawa Univ.; Tokyo Metropolitan Archaeological Center) OMARUYAMA, Kishinn; AOYANAGI, Yuki; NAGASAKO, Shinnya; NISHIMOTO, Yūko
- 2PC-126[#]** Nanoscale Electrochemical Imaging for Hydrogen Evolution Reaction on WS₂ mono-/bilayers (Grad. Sch. Environmental Studies, Tohoku Univ.) OOGAWA, Hiroto; KUMATANI, Akitika; ENDO, Takahiko; KOBAYASHI, Yu; IDA, Hiroki; TAKAHASHI, Yasufumi; MATSUE, Tomokazu; MIYATA, Yasumitsu; SHIKU, Hitoshi
- 2PC-127[#]** Mass analysis of polyethylene glycol by scanning atom probe (Dept. of Appl. Chem., Kanazawa Inst. of Tech.) OTANIGUCHI, Masahiro; ARAI, Hiroto; NISHIKAWA, Osamu
- 2PC-128** New flow injection analysis of chloride ion by spectrophotometric detection (Fac. of Sci., Okayama Univ. of Sci.) OKUZUME, Kairi; FUKUDA, Eri; SHIMIZU, Tsutomu; IMAGAWA, Tsuyoshi; OCHI, Yuusaku; YOKOYAMA, Takashi; SAKAE, Hiroki; ZENKI, Michio
- 2PC-129** Determination of formaldehyde with immobilized enzyme based on cedar sawdust (Coll. Eng., Chubu Univ.) OCHIAI, Tomoka; WATANABE, Ryo; FUKUOUJI, Takuya; MIYAUCHI, Tosiya
- 2PC-130[#]** Compositional fractionation of poly(styrene-co-acrylate) RAFT copolymer by eluent gradient HPLC method (Sch. Adv. Eng., Kogakuin Univ.) OKAWAI, Tadatomo; ITOH, Yuzo
- 2PC-131** Chemical modification of *Escherichia coli* and its applicable to the capillary electrophoresis analysis for microorganisms (Toyama Inst. Health) OYASUKAWA, Kazuyuki; YAMASHITA, Tomohisa
- 2PC-132** Development of propeller air filter device for aerosol capture (Sch. Eng., Nagoya Univ.) OSATO, Ryosuke; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; NOHIRA, Kosuke; MIN, Hongkyu; BABA, Yoshinobu
- 2PC-133[#]** Photolithography-free microfluidic device to study tumor cell extravasation (Grad. Sch. Sci. Eng., Toyo Univ.) ASAUMI, Yuichiro; SASAKI, Naoki
- 2PC-134** Solid phase extraction of rare earth elements using solvent impregnated resin containing surfactant (Osaka. Pref. Univ. Coll. Tech.) ONAKATANI, Ryo; KURAHASHI, Kensuke; UMETANI, Shigeo; SOHRIN, Yoshiaki
- 2PC-135[#]** Control of Cloud Point Temperature of Triton X in Cloud Point Extraction and Impact on Extraction Behavior (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) IWAHASHI, Hiroyuki; TAKAGAI, Yoshitaka
- 2PC-136[#]** Synthesis of Hydroxamic Acid-Immobilized Polymer Particle and Its Application to Removal of Fertile Elements (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) ABE, Miki; BUTSUGAN, Michio; ONUMA, Chisa; SUDOWE, Ralf; TAKAGAI, Yoshitaka
- 2PC-137** Development of effective separation and concentration method for cadmium using homogeneous liquid-liquid extraction in the ternary solvent system (Ind. Tech. Innov. Center of Ibaraki Pref.) ONAGASHIMA, Yuki; KATO, Takeshi; MANAKA, Atsushi
- 2PC-138** Anion Sensing of Fluorescence Probe Based on Metal Complex with Coumarin Derivative (Osaka Kyoiku Univ.) OKUBONO, Koji; NAKAO, Kentaro; KISE, Ryuma; YOKOI, Kunihiko
- 2PC-139[#]** Identification and Development of Removal Method as Noise Factor of Strontium 90 in Thermal Ionization Mass Spectrometry (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.) OSHIMODE, Ryoya; ITO, Chihiro; MIYAZAKI, Takashi; WAKAKI, Shigeyuki; SUZUKI, Katz; TAKAGAI, Yoshitaka
- 2PC-140** A study on simultaneous ¹⁹F-NMR quantitative analysis of biogenic amine using fluorine-containing benzaldehyde (Fac. Life Med. Sci., Doshisha Univ.) HAMAGUCHI, Naoto; OHARADA, Atsushi; TATARA, Kenta; OE, Yohei; OHTA, Tetsuo
- 2PC-141** Discrimination of primary amines by two-dimensional plot of ¹⁹F-NMR shifts using molecular reporter bearing two fluorine-containing moieties (Fac. Life Med. Sci., Doshisha Univ.) OHAMAGUCHI, Naoto; IKEDA, Mayu; OE, Yohei; OHTA, Tetsuo
- 2PC-142** Development of Raman spectroscopic analysis device for exosome components (Sch. Eng., Nagoya Univ.) OMUTO, Kengo; ONOSHIMA, Daisuke; AOKI, Keita; YUKAWA, Hiroshi; BABA, Yoshinobu
- 2PC-143** In vivo evaluation of molecular temperature and molecular crowding by an ultralow-frequency Raman microscope (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) OYOSHIKAWA, Yuki; YASUDA, Mitsuru; SHIGETO, Shinsuke
- 2PC-144** Development of a dye nanoparticle-coated test strip for detecting suspended particulate manganese in the air (Fac. Eng., Nagaoka Univ. of Tech.) OKISHIMOTO, Yugo; TAKAHASHI, Yukiko
- 2PC-145** On-site Analytical Method for Detection of Iron(III) Ion in Rivers and Lakes with Tiron Nanocomposite Loaded Test Strip (Grad. Sch. Eng., Nagaoka Univ. of Tech.) OMARUYAMA, Aya; TAKAHASHI, Yukiko
- 2PC-146[#]** Treatment of Harmful Metal Contaminated Soil with Cellulose phosphate (NIT, Kumamoto College) OHAMABE, Yūko; UMEDA, Takashi; MATSUTANI, Yuumi
- 2PC-147[#]** Development of a simplified nitrogen oxides standard gas generator (ESD-J) OAMAYA, Kazuo
- 2PC-148[#]** Determination of toxic glycosides by LC/MS based on the separation on a polymeric amino column (Forensic Sci. Lab., Fukuoka Pref. Police H. Q.) MOHRI, Kazuko; MOHRI, Hiroyuki; WAKIGAWA, Kengo; HARAGUCHI, Shingo; SHIRAKI, Ryosuke; SUNAHARA, Eri; MORITA, Junichi; MATSUMOTO, Mitsushi
- 2PC-149** Screening of Interactions between Small Molecules and Polynucleotides by Capillary Electrophoresis (Grad. Sch. Eng., Osaka Pref. Univ.) OSUEYOSHI, Kenji; NISHINO, Tomoya; ENDO, Tatsuro; HISAMOTO, Hideaki
- 2PC-150[#]** Development of a Janus particle-based immunoassay for diagnosis of primary aldosteronism (Grad. Sch. Environmental Studies, Tohoku Univ.) OKINOUCHI, Ryota; SATO(MASHIKO), Satsuki; INOUE(YASUDA), Kumi; ITO, Kentaro; YABU, Hiroshi; INO, Kosuke; MATSUE, Tomokazu; SHIKU, Hitoshi
- 2PC-151** Development of three-dimensional reconstructed alveolus with a small thin film spherical shell structure (Sch. Eng., Nagoya Univ.) OHATTORI, Ryosuke; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; IKEUCHI, Masashi; TSUCHIYA, Tomoshi; BABA, Yoshinobu
- 2PC-152** Discrimination of Drug-resistant Bacteria via Current Measurement System (Sch. Eng., Nagoya Univ.) OYOSHIKAWA, Aomi; YASUI, Takao; SHIMADA, Taisuke; YAMAKAKI, Seiji; NISHINO, Kunihiko; YANAGIDA, Takeshi; NAGASHIMA, Kazuki; WASHIO, Takashi; KAWAI, Tomoji; BABA, Yoshinobu
- 2PC-153** Cell Bio-imaging Using Emissive Aminoquinoline Derivatives (Showa Pharm. Univ.) OSAKUMA, Masaomi; FUCHI, Yasufumi; OYAWA, Kohei; KONO, Minaki; HAMADA, Koichi; MIZUTANI, Akihiro; KARASAWA, Satoru
- 2PC-154** Quantum sensing of stem cell regeneration function labeled with fluorescent nanodiamond (Sch. Eng., Nagoya Univ.) OMIYAJI, Kazu; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; FUJIWARA, Masazumi; BABA, Yoshinobu
- 2PC-155[#]** Analysis of thermal degradation processes of ferulic acid and its ester derivative present in cereal grains and identification of their degraded products (NARO) OTSUZUKI, Wakako; KOMBA, Shiro; KOTAKE-NARA, Eiichi
- 2PC-156** Tyrosinase inhibitory effect of chlorogenic acid derivatives in coffee extracts (Tokyo Healthcare University; Fac. Sci. and Technol., Seikei Univ.; Fac. Bio. Eng., Toin Univ. of Yokohama) OMATSUMURA, Yuriko; YAMAGUCHI, Tomoko; IWATA, Satoru; TOKUOKA, Yoshikazu
- 2PC-157[#]** The study on smoking effect (Nagasaki Nisi High School) OYAMAGUCHI, Takuto; MORI, Souta; GONDOH, Yoshinobu; MATSUZAWA, Tetsuhiro; KOBAYASHI, Kazunori
- 2PC-158[#]** Determination of Vitamin C kinetics of cancer cells by HPLC-DAD (IBB, Tokyo Med. and Dental Univ.) OMIYAZAWA, Taiki;

MATSUMOTO, Akira; MIYAHARA, Yuji

- 2PC-159[#]** Antioxidant Capacity Evaluation Carotenoids against Singlet oxygen via ESR spectroscopy under in vitro Condition (MPRC, Kobe Univ.)
 ○SAITO, Yu; KOSEKI, Yuto; HATANNO, Bunpei; SATO, Kazuaki; KUBO, Susumu; OHTA, Hitoshi; OGATA, Tateaki
- 2PC-160** Adsorption properties of odorant substances and elemental analysis of clay minerals used for cosmetic raw materials (Fac. Sci., Kanagawa Univ.; UTENA) ○KOMATSU, Misako; KAGESHIMA, Kazuki; MARUYAMA, Kishinn; NISHIMOTO, Yuko

Monday, March 18, AM

(10 : 00~11 : 30)

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

- 3PA-001** Enantioselective Three-Component Coupling Reaction of α -Ketoesters, Phosphite, and Aldehydes Using Zinc Bisamidinate Catalyst (Grad. Sch. Sci., Rikkyo Univ.) ○TAKATOKU, Tomoaki; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro
- 3PA-002** Development of new chiral 2,2'-bipyridine ligands bearing prolinol moieties (Grad. Sch. Sci., Rikkyo Univ.) ○KIMURA, Akari; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro
- 3PA-003** Metal-Bisamidine Catalyzed Asymmetric Friedel-Crafts Reaction of Indole with β, γ -Unsaturated α -Ketoesters (Coll. Sci., Rikkyo Univ.) ○HASEBE, Tomoki; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro
- 3PA-004** Carbon-Carbon Bond Formation Using Fine Bubble of Vinylidene Fluoride (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○ONO, Yuna; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 3PA-005** In-Line Analytical Reaction Optimization Using Microwave Assisted Continuous Flow Reactor (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○KON, Takuya; NAKAMURA, Yushi; TAKEDA, Kazuhiro; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 3PA-006** Organocatalytic Ring-Opening Polymerization of L-Lactide in Flow Synthesis (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○TANAKA, Toshiya; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 3PA-007[#]** Silica gel-mediated hydrohalogenation of alkenes using hydrohalogenic acids under solvent-free conditions (Sch. Life Dent., The Nippon Dental Univ.) ○TANEMURA, Kiyoshi
- 3PA-008** Synthetic Study for (+)-Ascopiroketal B: Enantioselective Synthesis of A Ring Part (Fac. Pharm. Sci., Tokushima Bunri Univ.) ○ESUMI, Tomoyuki
- 3PA-009** Quaternary Ammonium Salt-Catalyzed Carboxylative Cyclization of Amine Derivatives with CO₂ (IRC3, AIST) ○FUJITA, Ken-ichi; MATSUO, Hideaki; FUJII, Akira; CHOI, Jun-chul
- 3PA-010** Intra- and Intermolecular [2+2] Cycloaddition Reactions of Ethenetricarboxylates and Styrenes (Nara Univ. of Educ.; NAIST) YAMAZAKI, Shoko; ○HIROSE, Akihisa; YAMAMOTO, Mai; SAWADA, Masaki; KAKIUCHI, Kiyomi
- 3PA-011** The Umpolung Reaction of Iminomalonate (Grad. Sch. Eng., Mie Univ.) MIZOTA, Isao; ○OGATA, Kai; HACHIYA, Iwao
- 3PA-012** One-pot Conversion of Aryl Bromides and Arenes into Aromatic Nitriles (Science and engineering, Chiba University) ○UCHIDA, Ko; TOGO, Hideo
- 3PA-013** Claisen Rearrangement Utilizing Umpolung Reaction of α -Imino Allyl Esters and Its Application (Grad. Sch. Eng., Mie Univ.) AOKI, Takashi; ○SUMIKURA, Sakiho; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 3PA-014** Synthesis of γ -Lactams Using Umpolung Amination/Cyclization Reactions of 4,5-Dihydro-1H-pyrazole-3-carboxylate derivatives (Grad. Sch. Eng., Mie Univ.) MORI, Mayuko; ○OKADA, Kazuho; MIZOTA, Isao; HACHIYA, Iwao
- 3PA-015** Synthesis of β -Lactams Having Multiple Functional Groups Directed to the Synthesis of Biologically Active Compounds (Grad. Sch. Eng., Mie Univ.) ○YONEKAWA, Takumi; HACHIYA, Iwao
- 3PA-016[#]** Asymmetric Dearomative Fluorination with Novel Phase-transfer Catalysts (Sch. Pharm. Sci., Univ. Shizuoka) HOTTA, Ryo; ROUNO, Taiki; NIWA, Tomoki; EGAMI, Hiromichi; ○HAMASHIMA, Yoshitaka
- 3PA-017** Highly stereoselective addition utilizing the ring-opening of donor-acceptor substituted small ring carbocyclic compounds (Fac. Textile Sci. Technol., Shinshu Univ.) ○SAITO, Taichi; NISHII, Yoshinori
- 3PA-018** Synthetic Study of (-)-A58365B via an Asymmetric 2-Pyridone Synthesis by Conjugate Addition of β -Keto Ester to Chiral Alkynyl Imine as a Key Reaction (Grad. Sch. Eng., Mie Univ.) MIZUTANI, Shunsuke; ○UEMURA, Kento; HACHIYA, Iwao
- 3PA-019[#]** Computational study on racemization behaviors of winding vine-shaped heterobiaryls (Grad. Sch. Eng., Kobe Univ.) ○ITO, Yukiko; ASHIDA, Shiomi; HASHIMOTO, Takayoshi; OKANO, Kentaro; MORI, Atsunori
- 3PA-020[#]** Synthetic applications of α -heteroatom- β -acrylates obtained by dehydration-type Ti-Claisen condensation (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○FUKUDA, Keigo; KAMADA, Risa; KITAGUCHI, Hideya; NAKATSUJI, Hidehumi; TANABE, Yoo
- 3PA-021** Umpolung Reaction of *N*-Silyl- α -Imino Ester (Grad. Sch. Eng.,

Mie Univ.) HARAMIISHI, Tomoki; ○YASUMURA, Yuuki; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao

- 3PA-022[#]** Base-catalyzed Claisen-aldol-cyclization tandem reaction using ketene silyl acetals (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TAKETOMO, Yasuaki; TAMURA, Nao; TAMAGAKI, Hiroaki; TNABE, Yoo
- 3PA-023[#]** Optical resolution method for preparing chiral carboxylic acids utilizing inexpensive diol derived from (+)-3-carene (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○MORIGUCHI, Kento; KONO, Taro; MATSUO, Noritada; WATANABE, Keisuke; TANABE, Yoo
- 3PA-024[#]** ¹³C NMR Spectroscopic Studies of Intra- and Intermolecular Interactions of Amino Acid Derivatives in Solutions (Hiroshima Institute of Technology) ○HIRAGA, Yoshikazu; UYAMA, Yuri; HOSHIDE, Ryosuke; YOSHIMOTO, Kanji; NIWAYAMA, Satomi
- 3PA-025** Morita-Baylis-Hillman reactions using 3-substituted quinuclidine derivatives as catalysts (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○KOBAYASHI, Chikako; YAMADA, Shinji
- 3PA-026[#]** Reduction of Conjugated Enones to Ketones by Using Hydrogen Iodide (Grad. Sch. Eng., Chiba Univ.; Godo Shigen Co., Ltd.) ○MARUMOTO, Hayato; OSEKI, Takehisa; AKAZOME, Motohiro; OTANI, Yasuhiko; MATSUMOTO, Shoji
- 3PA-027[#]** Switching behavior of phosphonium-ammonium type pseudorotaxane (Grad. Sch. Natural Sci., Konan Univ.) ○FUJIMOTO, Naoki; KATAGIRI, Kosuke
- 3PA-028** Synthesis of δ -Lactams Using Double Nucleophilic Addition Reactions of Dialkynyl Imines (Grad. Sch. Eng., Mie Univ.) HARA, Masaya; ○KIKUCHI, Hirofumi; HACHIYA, Iwao
- 3PA-029** Diastereoselective Synthesis of α -Amino Amide Using Umpolung Reaction of *N*-Sulfinyl- α -Imino Amide (Grad. Sch. Eng., Mie Univ.) HOTTA, Miyuki; ○NAKAZATO, Hiroya; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 3PA-030[#]** One-shot desilylation and Glaser coupling of 9,10-bis(trimethylsilyl)ethynylanthracene on Cu(111) (Fac. of Eng., Okayama Univ. of Sci.) ○ORITA, Akihiro; KAWAI, Shigeki; FOSTER, Adam S.; OKUDA, Yasuhiro; MEYER, Ernst
- 3PA-031** One-pot Reactions using Bicyclic Zinc Enolate via Ni-catalyzed Reductive Cyclization of Alkynyl Cyclohexadione (Sch. Pharm., Iwate Med. Univ.; ISIR, Osaka Univ.) ○TSUJIHARA, Tetsuya; TOMEBA, Morio; KOIE, Rino; OHISHI, Ayumi; TAMURA, Satoru; TAKEHARA, Tsunayoshi; SUZUKI, Takeyuki; KAWANO, Tomikazu
- 3PA-032** Catalytic Asymmetric Cyclopropanations of Diazoesters with Organosilane Derivatives and their Synthetic Applications (Dept. Env. Life Sci., TUT) ○INOUE, Hayato; SHIBATOMI, Kazutaka; IWASA, Seiji
- 3PA-033** Trifluoromethylation and cyclization reactions for the synthesis of phthalimidine (Grad. Sch. Sci. Tech., Gunma Univ.) ○IMAI, Yuya; SAKAI, Tatsuya; SUGIISHI, Tsuyuka; AMII, Hideki
- 3PA-034[#]** An Organometallic Bioconjugation Strategy Using Rhodium(III) and Boronic Acids (Dept. of Chem., Rice Univ.) ○MILLER, Mary K.; OHATA, Jun; BALL, Zachary T.
- 3PA-035[#]** Preparation of anhydrous organic solvent using sodium dispersion (Grad. Sch. Eng., Kobe Univ.) ○YAMAGUCHI, Mana; INOUE, Ryo; MURAKAMI, Yoshiaki; OKANO, Kentaro; MORI, Atsunori
- 3PA-036** Development of machine-learned solvent selection scheme for organic reactions (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MAEKAWARA, Hiroki; FUJINAMI, Mikito; SEINO, Junji; ISSHIKI, Ryota; YAMAGUCHI, Junichiro; NAKAI, Hiromi

Organic Chemistry -Reaction and Synthesis- Organic Electron Transfer Chemistry

- 3PA-039[#]** Electrochemically assisting the organic synthesis reactions in a fuel cell (Fac. Eng., Tokyo Polytechnic Univ.) ○TAKAHASHI, Yuya; SEKIYA, Takato; OKANO, Mitsutoshi
- 3PA-040[#]** Reaction of alkoxyalcohols in a fuel cell (Fac. Eng., Tokyo Polytechnic Univ.) ○SUZUKI, Ryohei; TAZAWA, Ryo; OKANO, Mitsutoshi
- 3PA-041** Cyclization Reactions Using Electrochemically Generated Magnesium Anthracene and Esters (Grad. Sch. Sci. Eng., Kindai Univ.) MATSUMOTO, Kouichi; ○MATSUMOTO, Masahiro; KASHIMURA, Shigenori
- 3PA-042** Anodic Modification of Proline Derivatives Using Aromatic Redox Leaving Group (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○KUROSE, Yuma; IMADA, Yasushi; OKADA, Yohei; CHIBA, Kazuhiro

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

- 3PA-045[#]** Functionalization of Short-lived Organolithium Species from Bromothiophenes and Bromothiazoles Using Flow Microreactors (Grad. Sch. Eng., Kobe Univ.; Grad. Sch. Eng., Kyoto Univ.) ○ASAMA, Ririka; TADA, Rikako; YAMANE, Yoshiki; NAGAKI, Aiichiro; YOSHIDA, Jun-ichi; OKANO, Kentaro; MORI, Atsunori

Natural Products Chemistry

- 3PA-047** Asymmetric syntheses of dibenzylignan lactones and furanolignans

- using D-A cyclopropanes (Grad. Sch. Sci. Technol., Shinshu Univ.)
○SUGAWARA, Takuto; NISHII, Yoshinori
- 3PA-048** Modified Benzyl protection of hydroxyl groups for increasing the solubility of multi-benzyl protected organic compounds and its application for the total synthesis. (Fac. Textile Sci. Technol., Shinshu Univ.) ○TAKAKI, Naoya; SATO, Akari; NISHII, Yoshinori
- 3PA-049** Synthesis of Brachyidin B and Its Analogues (Fac. Eng., Kindai Univ.) YAMAMOTO, Takaya; SASAJIMA, Ami; ○OKADA, Yoshiharu
- 3PA-050** Conformation and orientation of the acyl chains of ²H, ¹³C-doubly labelled sphingomyelin in membrane by solid state NMR (Grad. Sch. Sci., Osaka Univ.) ○IMAI, Kayaki; UMEGAWA, Yuichi; TSUTIKAWA, Hiroshi; MURATA, Michio
- 3PA-051** Synthetic Study of Tuberonic Acid Glucoside (Dept. of Sci. Tech., Meiji Univ.) ○SONE, Shinnsaku; OGAWA, Narihito
- 3PA-052** Synthetic Study of Coreoside D (Dept. of Sci. Tech., Meiji Univ.) ○IMAIZUMI, Ryoya; OGAWA, Narihito
- 3PA-053** Synthetic study of Jasmine ketolactone (Dept. of Sci. Tech., Meiji Univ.) ○ARAI, Ryota; OGAWA, Narihito
- 3PA-054** Synthetic Study on Cardiolipins Containing Cyclopropane Moieties (Grad. Sch. Sci. Tech., Keio Univ.) ○SUZUKI, Keisuke; OHTA, Ipppei; ISHIBASHI, Shunichi; TAKAMATSU, Masayuki; FUKASE, Kouichi; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
- 3PA-055[#]** Enzyme-assisted extraction of Japanese mint essential oil (Fac. Eng., Kitami Inst. of Tech.) ○SHIMOTORI, Yasutaka; WATANABE, Takumi; HOSHI, Masayuki; KOHARI, Yoshihito; MURATA, Miki; NAGATA, Yuichi
- 3PA-056** Synthesis of saxitoxin derivatives focusing on the C11 position and evaluation of their inhibitory activity towards sodium channel with whole-cell-patch-clamp recordings (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HOSHI, Minami; ADACHI, Kanna; YAMADA, Satoshi; OKI, Mana; ISHIZUKA, Hayate; KONOKI, Keichi; YOTSU-YAMASHITA, Mari; NAGASAWA, Kazuo
- 3PA-057** Investigation of diversity-oriented synthetic route enabling comprehensive synthesis of multi-antennary *N*-glycans (Sch. Sci., Osaka Univ.) ○SHIRAKAWA, Asuka; MANABE, Yoshiyuki; DEMURA, Kenta; MASUL, Seiji; FUKASE, Koichi
- 3PA-058** Syntheses of the Various Trisaccharides on Gold Nanoparticles to Investigate the Structure activity relationship between the Library of Trisaccharides and the GM3. (Fac. of Sci., Okayama Univ. of Sci.) ○HYODO, Mizuki; SATA, Yuki; YAMANAKA, Yusuke; YAMADA, Haruo
- 3PA-059** Asymmetric synthesis of three kinds metabolic intermediates in kynurenine path and their pheromone activity against masu salmon. (Fac. Textile Sci. Technol., Shinshu Univ.) ○OTA, Ryotaro; YAMBE, Hidenobu; NISII, Yoshinori
- 3PA-060[#]** Determination of in vitro sun protection factor of methanolic leaf extract of Oak-leaf Fern (*Drynaria quercifolia*) (Dept. of Pharmacy, FAHS, KDU, Sri Lanka) ○NUWARAPAKSHAGE, Ashoka Sanjeevani
- 3PA-061[#]** Chemical contents of secretory idioblasts in *Egeria densa* leaves (Grad. Sch. of Sci. Technol., Sophia Univ.) ○SYAHMINA, Aisya; YAMAGISHI, Akane; SHINOZUKA, Mai; KANAZAWA, Mikako; MUNAKATA, Koki; ONDA, Shingo; FUJIWARA, Makoto; TOYONOBU, Usuki
- 3PA-062** Bioactive Compounds from Marine Sponge (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) ○INOUE, Yoshinari; KURAMOTO, Makoto; MORI, Shigeki; UNO, Hidemitsu

Chemical Biology

- 3PA-065[#]** Development of gold nanoparticle-based affinity labeling probes for target protein analysis (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUTO, Nanako; UMEZAWA, Takumi; SAKURAI, Kaori
- 3PA-066[#]** Development of gold nanoparticle-based click-photocapture agents for target protein identification (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MORI, Kanna; KOBAYASHI, Naohiro
- 3PA-067[#]** Anticancer Property of 3-Keto-20,22-dimethyl-20-deoxoscalarin isolated from Philippine Marine Sponge (Chem. Dept., MSU-IIT) ○GELANI, Chona; UY, Mylene; OHTA, Shinji; OHTA, Emi
- 3PA-068[#]** Design and Synthesis of Curcumin Analogues that Inhibit Osteoclastogenesis (Sch. Pharm., Iwate Med. Univ.; Fac. Eng., Iwate Univ.) ○SUGAWARA, Aoi; OHASHI, Toshika; OGAWA, Satoshi; GOTO, Naomi; NAKANISHI-MATSUI, Mayumi; KAWANO, Tomikazu
- 3PA-069** Identification of Low-Molecular Compound-Protein Interactions Using Cell-Free Protein Synthesis System and Ribosome Display Technique (RIKEN BDR) ○TAGUCHI, Kenshiro; WADA, Akira
- 3PA-070[#]** Novel F-actin binding molecule as a platform for fluorescent probe and functional probes (Grad. Sch. Pharm., The Univ. of Tokyo) ○TAKAGI, Takeru; UENO, Tasuku; NOMURA, Yusuke; ASANUMA, Daisuke; URANO, Yasuteru
- 3PA-071[#]** Synthesis and fluorescence properties of novel 2-(2'-quinolyl)aryls (Fac. Eng., Utsunomiya Univ.) OBA, Toru; ○KASHIMA, Satoshi; SHINOTSUKA, Ryo; ITO, Satoshi; TAMESUE, Shingo
- 3PA-072** Development of Ratiometric Oxygen Probes Based on Green Fluorescence and Red Phosphorescence for Intracellular Oxygen Measurement (Grad. Sch. Sci. Tech., Gunma Univ.) ○YASUKAGAWA, Mami;

- YOSHIHARA, Toshitada; YAMADA, Keiichi; TOBITA, Seiji
- 3PA-073** Effects of ladder-shape polyethers as a binder on the aggregation of islet amyloid polypeptide (IAPP) (Grad. Sch. Sci., Osaka Univ.; ERATO, JST; Grad. Sch. Sci., The Univ. of Tokyo) ○XIONG, Weiqi; TSUCHIKAWA, Hiroshi; HARA, Toshiaki; MURATA, Michio; SATAKE, Masayuki
- 3PA-074** Design and synthesis of caged DAGs with cell targeting ability (Fac. Sci., Toho Univ.) ○AOKI, Hanami; FURUTA, Toshiaki
- 3PA-075** Synthesis and fluorescence properties of turn-on fluorescent sensors for concanavalin A using GFP dye derivatives (Sch. Life Sci. Tech., Tokyo Tech.) ○TSUZUKI, Takayuki; KANAMORI, Takashi; INADA, Kotaro; YUASA, Hideya
- 3PA-076** Synthetic Studies on Nod1 Ligand Probes for Analysis of Immunomodulatory Functions of Bacterial Cell Wall (Grad. Sch. Sci. Tech., Keio Univ.) ○TANAKA, Mizuho; TOMIZAWA, Kazumi; MATUMARU, Takanori; SHIMOYAMA, Atsushi; FUKASE, Koichi; FUJIMOTO, Yukari
- 3PA-077[#]** Synthesis of boron-containing azapeptides (Grad. Sch. Eng., Utsunomiya Univ.) ○MIYATA, Kota; NARITA, Airi; ITO, Satoshi; TAMESUE, Shingo; OBA, Toru
- 3PA-078[#]** Development of ratiometric fluorescent probes capable of measuring organelle pH (Grad. Sch. Pharm., The Univ. of Tokyo) ○MIZOGUCHI, Mai; KAGAMI, Yu; HANAOKA, Kenjiro; URANO, Yasuteru
- 3PA-079** Development of quantitative acrolein detection method by serine-derived luminescent probe (Grad. Sch. Sci., Osaka Univ.) ○NABETANI, Hinako; TSUCHIDA, Hiroya; SHIMOYAMA, Atsushi; FUKASE, Koichi
- 3PA-080** Super-photostable Naphthophosphole-Based Fluorescent Marker for Labeling Endoplasmic Reticulum (Grad. Sch. Sci., Nagoya Univ.) ○MITSUYAMA, Chie; WANG, Chenguang; SATO, Toshikatsu; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 3PA-081** Design and synthesis of modular caged catecholamines (Fac. Sci., Toho Univ.) ○WATAHIKI, Rei; FURUTA, Toshiaki
- 3PA-082** Synthesis of Zerumbone Azide for Elucidation of Antimicrobial Activity of Zerumbone. (Nagahama Institute of Bio-Science and Technology) ○IMAMURA, Sae; KITAYAMA, Takashi; KAWAI, Yasushi
- 3PA-083[#]** Synthesis and spectroscopic properties of novel metal complexes with π -extended ligands (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○KOBAYASHI, Ryouhei; ITO, Satoshi; TAMESUE, Shingo
- 3PA-084[#]** Synthesis and reaction of oligodeoxynucleotides that induce solvatochromic fluorescent lactam by lysine modification (Grad. Sch. Pharm., Kyushu Univ.) ○ASO, Mariko; KINJO, Ayaka; ABE, Yukiko; TANIGUCHI, Yosuke; SASAKI, Shigeki
- 3PA-085[#]** Hydrogen peroxide imaging using polystyrene beads containing platinum porphyrin (Sch. Life Sci. Tech., Tokyo Tech.) ○ITO, Hidehiro; ODAI, Shunsuke; KAMACHI, Toshiaki
- 3PA-086[#]** Facile blue-color labelling of biomolecules under mild conditions using guaiazulene-derived alcohol (IIS, The Univ. of Tokyo) ○JIN, Yu; AKAGAWA, Kengo; KUDO, Kazuaki

Functions of Materials

- 3PA-089[#]** Enzyme-Mediated Dual-Targeted-Assembly Achieves Synergetic Anticancer Effect (OIST) MANG, Dingze; ○WU, Xia; ZHANG, Ye
- 3PA-090** Contrast Effects and Stabilities of Nano-particles Included Gadolinium Complexes (Showa Pharm. Univ.) ○KARASAWA, Satoru; ARAKI, Takeru; FUCHI, Yasufumi; NAGANUMA, Tatsuya; MATSUOKA, Yuta; YAMADA, Ken-ichi
- 3PA-091** Physical Property of Water Soluble NO Radical Carrying Vinyl Group and Development of Polyradical Taking Advantage of Its Reactivity (Showa Pharm. Univ.) ○KANEKO, Tomoyo; FUCHI, Yasufumi; SHIRAIISHI, Ryoma; NAGANUMA, Tatsuya; MATSUOKA, Yuta; YAMADA, Ken-ichi; KARASAWA, Satoru
- 3PA-092** Application of Carbon Materials for Anticancer Drug Carrier (Grad. Sch. Eng., Oita Univ.) ○SHIGETA, Daiya; NOBUOKA, Kaoru; KITAOKA, Satoshi; TOYODA, Masahiro; ISHIKAWA, Yuichi
- 3PA-093** Structure and characterization of aggregates formed from spiroyrans in *n*-hexane upon UV irradiation (Grad. Sch. Eng., Osaka City Univ.) ○MIZUGUCHI, Takafumi; KITAGAWA, Daichi; KOBATAKE, Seiya
- 3PA-094** Synthesis and photochromism of 4-thienyl-5-vinyl-2-phenylthiazole with methyl group (NIT, Niihama College) ○TAKAMI, Shizuka; SUZUKI, Otono; TSUTSUMI, Sakuko; NISHIYAMA, Minoru; YAMAGUCHI, Tadatsugu; KAWAI, Tsuyoshi
- 3PA-095** Photoinduced shape change of single crystals composed of a diarylethene having a long alkyl chain (Grad. Sch. Eng., Osaka City Univ.) ○HIGASHIGUCHI, Takuya; KITAGAWA, Daichi; KOBATAKE, Seiya
- 3PA-096[#]** Elucidation of excited state dynamics of photogenerated biradicals of photochromic PIC derivatives (Coll. Life Sci., Ritsumeikan Univ.) ○SAITO, Moe; MUTOH, Katsuya; ABE, Jiro; KOBAYASHI, Yoichi
- 3PA-097[#]** Synthesis and Optical Properties of Rhodamine Derivatives Having a Fluorescent Moiety (Coll. Life Sci., Ritsumeikan Univ.) ○TSUJI, Kanna; KOBAYASHI, Yoichi
- 3PA-098** Photochromism of Aqueous Colloidal Solution of TiO₂ Containing Molybdate ion (Fac. Sci., Yamaguchi Univ.) ○OKIMURA, Koushiro; YAMAZAKI, Suzuko
- 3PA-099** Dependence of photoluminescence switching accompanying photo-

- chromic reaction of quantum dots coated with diarylethenes on the coated number of diarylethenes. (Grad. Sch. Eng., Osaka City Univ.) ○SETO, Yuya; KITAGAWA, Daichi; KOBATAKE, Seiya
- 3PA-100[#]** Heat generation associated with oxidative cycloreversion reaction of photochromic terarylenes (Grad. Sch. Sci. & Tech., NAIST) ○SEKIGUCHI, Yuki; ASATO, Ryosuke; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 3PA-101** Transient heating effect in cycloreversion reaction of diarylethene nanoparticle by nanosecond pulse excitation. (Fac. Eng., Ehime Univ.) ○NAKAI, Shoki; ISHIBASHI, Yukihide; KITAGAWA, Daichi; MASUDA, Keisuke; SUGIMOTO, Yuya; KOBATAKE, Seiya; ASAH, Tsuyoshi
- 3PA-102[#]** White-Light Luminescence in Liquid Crystal Phases (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○PANTHAI, Supattra; YUI, Maruoka; H. ALIJUZAYRI, Sami; YOUNIS, Osama; HISANO, Kyohei; TSUTSUMI, Osamu
- 3PA-103[#]** One-step synthesis of cholesteric-liquid-crystal polymer microspheres and evaluation of optical functions (Coll. Life Sci., Ritsumeikan Univ.) ○SHIGEYAMA, Tomoki; HISANO, Kyohei; TSUTSUMI, Osamu
- 3PA-104[#]** Enhancement effects of photochromic reaction by AuNP immobilized on titania base layer (Osaka. Pref. Univ. Coll. Tech.) ○NAKANO, Genta; AKIYAMA, Tsuyoshi; KAWAI, Tsuyoshi; HIGASHIDA, Suguru
- 3PA-105** Emission behavior of chiral iridium complexes hybridized with synthetic saponite (Fac. Sci., Ehime Univ.) ○JINSENI, Yoshiaki; TAKIMOTO, Kazuyoshi; WATANABE, Yutaka; SATO, Hisako
- 3PA-106[#]** Solar Cells Based on Bacteriochlorophyll-*a* Derivatives with Different C17-Propionate Residues (Nagahama Institute of Bio-Science and Technology; Jilin Univ.; OCARINA; Kobe Pharm. Univ.) ○SAKAI, Kotowa; DUAN, Shengnan; WANG, Xiao-feng; FUJII, Ritsuko; YAMANO, Yumiko; IKEUCHI, Toshitaka; SASAKI, Shin-ichi
- 3PA-107[#]** Trilayer Cascade Solar Cells Based on Chlorophyll-Derived Dye Components (Nagahama Institute of Bio-Science and Technology; Jilin Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SASAKI, Shin-ichi; SAKAI, Kotowa; ZHAO, Wenjie; DALL'AGNESE, Chunxiang; DUAN, Shengnan; TAMIAKI, Hitoshi; WANG, Xiao-feng
- 3PA-108** Effects of numerical aperture of objective lens on 3D orientation structure of colloidal niobate nanosheets induced by optical tweezer. (Fac. Sci., Yamaguchi Univ.) ○IKEDA, Akira; TAKEDA, Mitsuki; NAGASHITA, Takashi; ISHITOBI, Wataru; NAKATO, Teruyuki; SUZUKI, Yasutaka; KAWAMATA, Jun
- 3PA-109** Chemical modification of a halloysite nanotube with amine compounds and use for removal of hexavalent chromium ions (Grad. Sch. Industrial Tech., Nihon Univ.) ○KUSAKARI, Shinichi; KIMURA, Yuji; ASAMOTO, Hiromichi; MINAMISAWA, Hiroaki; YAMADA, Kazunori
- 3PA-110** Chemical modification of crosslinked chitosan beads and their use for removal of Cr(VI) ions (Grad. Sch. Industrial Tech., Nihon Univ.) ○KAWAKAMI, Yuuna; KIMURA, Yuji; ASAMOTO, Hiromichi; MINAMISAWA, Hiroaki; YAMADA, Kazunori
- 3PA-111** Theoretical study of the adsorption energy and the storage pressure of the greenhouse gases encapsulated in nanocarbon cubes (Sch. Sci., Tokai Univ.) ○SUWA, Erika; ISHIKAWA, Shigeru
- 3PA-112** Theoretical evaluation of hydrogen storage density in a nanocarbon cube based on the Lennard-Jones potential functions (Sch. Sci., Tokai Univ.) ○SATO, Misaki; ISHIKAWA, Shigeru
- 3PA-113[#]** Synthesis and Characterization of Conductive Gel with Multiple Reversible Bonds (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○NAGAHAMA, Shunsuke; MIGITA, Kayo; SUGANO, Shigeki
- 3PA-114[#]** Hypochlorite-responsive materials that show colorimetric and morphological changes (Fac. Eng., Kitami Inst. of Tech.) ○MITANI, You; KANEKIYO, Yasumasa
- MATSUMOTO, Koki; ONODA, Akira; HAYASHI, Takashi
- 3PB-007[#]** Synthesis of pentaphene derivatives by intramolecular cyclization reactions (Iwate Univ.) ○CHIBA, Yuya; KUZUHARA, Daiki; YOSHIMOTO, Noriyuki
- 3PB-008** Synthesis of alkyl benzenes containing a halogen using alcohols in the presence of NaHSO₄/SiO₂ (Coll. Sci. Tech., Nihon Univ.) ○MATSUDA, Naoto; HAYAKAWA, Mamiko; AOYAMA, Tadashi; OUCHI, Akihiko
- 3PB-009[#]** Facile synthesis of triarylbenzofulvenes from the tetraaryl[3]cumulenes via iodocyclization (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) YAGISHITA, Fumitoshi; ○HOSHI, Keita; KAAWAMURA, Yasuhiro
- 3PB-010[#]** Selectivity Control of Biaryl-Forming Oxidative Ligand Coupling Reaction of Tetraarylborates (Grad. Sch. Eng., Kyoto Univ.) ○AOKI, Takero; NAKAMOTO, Daiki; OKAMOTO, Kazuhiro; OHE, Kouichi
- 3PB-011** Synthesis and characterization of trinaphthylene-5,6,11,12,17,18-hexone derivatives (Sch. Eng., The Univ. of Shiga Pref.; Grad. Sch. Eng., Univ. of Hyogo) ○NISHIDA, Keigo; KATO, Shin-ichiro; NISHIDA, Jun-ichi; KAWASE, Takeshi; KITAMURA, Chitoshi

Catalysts and Catalysis

- 3PB-013** Photocatalytic decomposition of soluble starch over metal-loaded titanium(IV) oxide (RLHC, Kochi Univ.) ○AONO, Yushiro; SAKAMOTO, Yuuki; ONDA, Ayumu; YANAGISAWA, Kazumichi; IMAMURA, Kazuya
- 3PB-014** Photocatalytic property of carbon nitride modified with melamine derivatives (Grad. Sch. Sci. Tech., Yamaguchi Univ.) YANASE, Kosuke; CHAEN, Hiroki; YOSHIDA, Masaaki; ○SAKATA, Yoshihisa
- 3PB-015** Synthesis of phenol using TiO₂ photocatalyst in Benzene-water phase system and extraction with anion exchange resin (Osaka. Pref. Univ. Coll. Tech.) ○OKAMOTO, Kyohei; HIGASHIDA, Suguru
- 3PB-016[#]** Photocatalytic activity of bismuth(III) tungstate with the controlled hierarchical structure (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○FURUKAWA, Shingo; TAKASE, Mai
- 3PB-017[#]** Improvement of photocatalytic hydrophilicity by composite of Cu-loaded anatase and rutile TiO₂ (Graduate School of Science and Technology) ○SHIMIZU, Kengo; OHWAKI, Takeshi
- 3PB-018** Fabrication of new titanate nanowires with a remarkable photocatalytic activities (Grad. Sch. Sci. Technol., Shinshu Univ.) ○KARASAWA, Norikazu; TSUCHIYA, Yosuke; ASAO, Naoki
- 3PB-019[#]** Solvent effect on exfoliation of porphyrin containing covalent organic frameworks (ISIR, Osaka Univ.) ○LI, Xinxin; OSAKADA, Yasuko
- 3PB-020[#]** Stabilization of photoelectrochemical cells for solar-driven hydrogen production via suppression of poisoning (Grad. Sch. Eng., The Univ. of Tokyo) ○KANEKO, Hiroyuki; MINEGISHI, Tsutomu; KOBAYASHI, Hiroyuki; KUANG, Yongbo; DOMEN, Kazunari
- 3PB-021[#]** Preparation of Mesoporous Assembly Composed of Size-Controlled Prussian Blue Nanospheres (Grad. Sch. Eng., Osaka City Univ.) ○YOROZU, Shoma; YAMANE, Mari; TABE, Hiroyasu; YAMADA, Yusuke
- 3PB-022** Oxidative dehomologation of 3-aryl-1-propanol into benzaldehyde derivatives using beta zeolite catalysts (Grad. Sch. Sci., Eng., Ehime Univ.) ○FUKUDA, Chiharu; OHTA, Hidetoshi; HAYASHI, Minoru
- 3PB-023** Enantio-differentiating hydrogenation of methyl acetoacetate over carbon supported nickel catalysts (Grad. Sch. Sci. Eng., Univ. of Toyama) ○OSAWA, Tsutomu; ARAMATA, Yuki
- 3PB-024** Methane emission from carbon supported ruthenium catalysts under the reaction condition for ammonia synthesis (Dept. of Chem. & Biochem., NIT, Numazu College) ○KATSUMATA, Yuto; WATANABE, Sota; EMA, Satoru; SUGISAWA, Naoto; INAZU, Koji
- 3PB-025[#]** Revisiting the mechanism of methane activation by Zn-ZSM-5 at low temperature (IMCE, Kyushu Univ.) ○TANAKA, Seiya; YOSHIZAWA, Kazunari; SHIOTA, Yoshihito; MAHYUDDIN, Haris
- 3PB-026[#]** Partial oxidation of real bioethanol to acetaldehyde using Au nano particles encapsulated in MFI zeolite pore (Fac. Sci. & Eng., Ishinomaki Senshu Univ.; Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.; Sanwa Starch Co., Ltd.) ○SUZUKI, Yukari; KIKUCHI, Naoko; YAMAZAKI, Tatsuya; KATOH, Masahiro; YOSHIKAWA, Takushi; WADA, Mamoru
- 3PB-027[#]** Catalytic performance of rhodium phosphide for selective hydrodeoxygenation of phenol (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○KANDA, Yasuharu; CHIBA, Taiyo; ARANAI, Ryusei; UENO, Ren; UEMICHI, Yoshio
- 3PB-028** XAFS Analysis of Adsorbed Species on Supported Pt Catalyst in Ethylene Hydrogenation (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○NAKAYAMA, Yusuke; TSUCHIYA, Naoki; YAMAMOTO, Akira; YOSHIDA, Hisao
- 3PB-029** Theoretical study for acetoxylation of terminal alkenes (Sch. Sci., Osaka Univ.) ○MITSUHASHI, Ryoma; OKUMURA, Mitsutaka; TOKUNAGA, Makoto; MURAYAMA, Haruno
- 3PB-030** Synthesis of Oxygen-Deficient TiO₂ by Sodium Naphthalenide Reduction Method (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWAMURA, Mayuko; OYA, Kayato; KITANO, Masaaki; HOSONO, Hideo
- 3PB-031** Development of reusable composite catalysts for dehydrogenative reactions from Ir complexes and solid metal oxides (Grad. Sch. Eng., Kagawa

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(12 : 30~14 : 00)

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 3PB-001** Study on the reactions of 1-(azulen-1-yl)vinyl acetate with nucleophiles (Grad. Sch. Agr. Sci., Kobe Univ.) ○AZUMA, Shuhei; MIYAKE, Hideyoshi
- 3PB-002** Mono-esterification of propylene glycol by use of *retro*-Claisen reaction with a green chemical process (Fac. Sci. Eng., Toyo Univ.) ○DAVID, Noriko; NAKAGAWA, Yuri; TSUCHIYA, Masahiro; YOSHIDA, Yasuhiko; AIKAWA, Shunichi
- 3PB-003** Transformation of enamionone bearing an azulenyl group into azulenyl pyridine derivative (Fac. Eng., KAIT) YAMAGUCHI, Jun-ichi; ○ISHINO, Runa; RAIJU, Emi; SEKITA, Honoka
- 3PB-004** Synthetic Studies on Soluble Trioxotriangulene Derivatives (Fac. Eng., Aichi Inst. of Tech.) ○TAKAKA, Chika; UKAI, Shusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 3PB-005[#]** Synthesis and Properties of π -extended Thiele's and Chichibabin's hydrocarbons composed of Tri(9-anthryl)methyl skeleton (Sch. Sci., Osaka Univ.) ○AIBARA, Seito; NISHIUCHI, Tomohiko; KUBO, Takashi
- 3PB-006[#]** Synthesis of diaza-hexabenzocoronene from a diazatriphenylene derivative (Grad. Sch. Eng., Osaka Univ.) ○TAKAGI, Yosuke;

Univ.; Fac. Med., Kagawa Univ.; Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○SORADA, Daijiro; WADA, Kenji; FENG, Qi; NISHIOKA, Masaaki; FUJITA, Ken-ichi

3PB-032[#] Synthesis of mesoporous silica supported noble metal nanoparticles using electron beam induced reduction method (Grad. Sch. Eng., Osaka Univ.) ○UEGAKI, Naoto; SEINO, Satoshi; KUGAI, Junichiro; FUJIEDA, Shun; NAKAGAWA, Takashi; YAMAMOTO, Takao

Organic Crystals

3PB-035 Crystal structure and physical properties of a new complex of pyrene and BHETCNQ (Fac. Sys. Eng., Wakayama Univ.) ○GEN, Kazuki; YAMAKADO, Hideo

3PB-036 Crystal Structure of Cholesteric Liquid Crystal with 7-(Diethylamino)-3-phenylcoumarin (Fac. Eng., Hokkai Gakuen Univ.; IMCE, Kyushu Univ.; Fac. Pharm. Sci., Health Sci. Univ. Hokkaido) ○KUBO, Kanji; MATSUMOTO, Taisuke; TEKECHI, Haruko

3PB-037 Synthesis of Hemiporphyrane Metal Complexes Fused by Spin-Localized Nitroxide Unit and Their Physicochemical Properties (Fac. Sci. Tech., Keio Univ.) ○ISHIHARA, Ryo; TSUCHIYA, Ryo; MIURA, Youhei; YOSHIOKA, Naoki

3PB-038 Design and Synthesis of Triradical Derivatives Using Verdazyl Unit as Spin Center (Fac. Sci. Tech., Keio Univ.) ○SEKIGUCHI, Ryoko; SATO, Takuho; OSHIMA, Riku; MIURA, Youhei; YOSHIOKA, Naoki

3PB-039[#] Porous Crystal Structures and Guest Inclusions of Cyclic or Spherical Aromatic Amides (CAI, Chiba Univ.) ○MASU, Hyuma; ITO, Norie; TADAKI, Isamu; AZUMAYA, Isao

3PB-040 Effect of Alkylimine Moiety on Self-Assembling Behavior of Schiff Base Nitride Chromium Complexes (Fac. Sci. Tech., Keio Univ.) ○ITO, Tasuku; MIYATA, Takumi; KOBAYASHI, Yukiko; MIURA, Youhei; YOSHIOKA, Naoki

3PB-041 Luminescent Properties of Crystal of Dibenzoylmethane-BF₂ Complexes Having Iodine Atoms (Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○ARI, Takumi; YAMAMOTO, Shun; SAKAI, Atsushi; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi

3PB-042 Construction of porous organic salts with tetrahedral tetrasulfonic acid having adamantane core and modified triphenylmethylenes and their properties (Grad. Sch. Eng., Osaka Univ.) ○SEI, Hiro; TSUCHIYA, Keiho; HISAKI, Ichiro; TOHNAI, Norimitsu

3PB-043 Construction and properties of organic porous material composed of tetrasulfonic acid containing porphyrin moiety and amine. (Grad. Sch. Eng., Osaka Univ.) ○OKUBO, Kohei; TSUCHIYA, Keiho; HISAKI, Ichiro; TOHNAI, Norimitsu

3PB-044[#] Optical Resolution of Alcohols through Succinic Acid Monoesters: An Effective Combination Process of Diastereomeric Salt and Enzyme Methods (Grad. Sch. Eng., Chiba Univ.) ○FUSHIMI, Kanako; KUNITO, Mei; FUSE, Takumi; UMEMO, Daisuke; KAWAI(NOMA), Shigeo; MATSUMOTO, Shoji; AKAZOME, Motohiro

3PB-045[#] Inclusion Ability and Crystal Structure of *N,N'*-1,3-Bis(1-methoxy-1,1-diphenylpropan-2-yl)urea Synthesized from Alanine (Grad. Sch. Eng., Chiba Univ.) ○MURAI, Sayaka; MATSUMOTO, Shoji; AKAZOME, Motohiro

3PB-046 Structural Analysis by Crystalline Sponge Method of Organic Compounds via Bromination (Grad. Sch. Eng., The Univ. of Tokyo; IMS) ○FURUBAYASHI, Shumpei; SAKAGUCHI, Kazuhiko; SAKURAI, Fumie; KIKUCHI, Takashi; FUJITA, Makoto

3PB-047 Substitution effects on the evaporative crystallization of dibenzoylmethane boron difluoride complexes (Institute of Education, Shinshu University) ○MOCHIZUKI, Yoshifumi; ITO, Fuyuki

3PB-048 Visible-light induced macroscopic oscillation of amphiphilic azobenzene crystal and its crystal structure (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Rigaku Corp.; Fac. Sci., Hokkaido Univ.) ○SATONAGA, Shinnosuke; IKEGAMI, Tomonori; SATO, Hiroyasu; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu

3PB-049[#] Chirality Control of Thiohydantoin Derivatives by Dynamic Crystallization (Fac. Eng., Chiba Univ.) ○HOSAKA, Momoka; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

3PB-050 Chirality control in crystallization using chiral optical vortex (Grad. Sch. Eng., Chiba Univ.) ○SAITO, Rei; UEMURA, Naohiro; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; OMASTU, Takashige; SAKAMOTO, Masami

3PB-051 Control of axial chirality of nicotinamide derivatives by dynamic crystallization (Grad. Sch. Eng., Chiba Univ.) ○BAN, Kazuma; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; KASASHIMA, Yoshio; MINO, Takashi; SAKAMOTO, Masami

3PB-052[#] Superelastic deformation with multiple twinning of an organic crystal (International Coll. Arts Sci., Yokohama City Univ.) ○NISHIZAWA, Keigo; TAKAMIZAWA, Satoshi; SASAKI, Toshiyuki; OZAKI, Noriaki

3PB-053[#] Generation and Amplification of Chirality by Diels-Alder Reaction Involving Dynamic Crystallization (Grad. Sch. Eng., Chiba Univ.) ○TOYODA, Seiya; UEMURA, Naohiro; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; KASASHIMA, Yoshio; SAKAMOTO, Masami

3PB-054 Solid-state [4 + 4] photodimerization reaction of 1-azaanthracene using 1-naphthoic acid as a catalyst (Grad. Sch. Of Humanities & Sci.,

Ochanomizu Univ.) ○CHIDA, Moemi; YAMADA, Shinji

3PB-055 Preparation of chiral phanephos/Tb(III)hybridised luminophores emitting circularly polarized luminescence (CPL) (Faculty of Science and Engineering, Kindai University; ORIST; Grad. Sch. Mat. Sci., NAIST) TANIGUCHI, Ayano; HARA, Nobuyuki; NAKAJIMA, Gaku; SHIZUMA, Motohiro; FUJIKI, Michiya; ○IMAI, Yoshitane

Monday, March 18, PM

(15 : 00~16 : 30)

Organic Chemistry -Reaction and Synthesis-Heteroatom Compounds

3PC-001[#] Metal Halide-Organic Base: Efficient Catalytic system for Coupling of Carbon Dioxide and Styrene Oxide (ORIST) ○MIHARA, Masatoshi; NAKAI, Takeo; ITO, Takatoshi; OHNO, Toshinobu; MIZUNO, Takumi

3PC-002 Reaction of Phosphasilene with NHC (Fac. Sci. Eng., Kindai Univ.) ○OBAYASHI, Tomohiro; SADAMORI, Kazuya; HATANAKA, Miho; MATSUO, Tsukasa

3PC-003 Synthesis, Structure and Complexation ability of Selenocarbonates having Imidazo[1,5-a]pyridine Skeleton (Coll. Eng., Chubu Univ.) ○YOKOZEKI, Sho; NIYOMURA, Osamu

3PC-004[#] Chiral discrimination of amines using P-stereogenic phosphonothioic acids (Fac. Eng., Gifu Univ.) ○SAKAI, Motoji; KUWABARA, Kazuma; MURAI, Toshiaki

3PC-005[#] Synthesis of P-stereogenic phosphonoamidites based on axis-to-center chirality transfer (Fac. Eng., Gifu Univ.) ○ONO, Shunya; KUWABARA, Kazuma; MURAI, Toshiaki

3PC-006[#] Radical borylation of perfluoroarenes with N-heterocyclic carbeneboranes (Coll. Sci. Eng., Kanazawa Univ.) ○TAKAHASHI, Kosuke; SHIMOI, Masaki; MAEDA, Katsuhiko; CURRAN, Dennis; TANIGUCHI, Tsuyoshi

3PC-007 Oxidation Reactions of Hexakis(aryltellanyl)benzenes bearing Cyclic σ -Symmetric Occupied Orbitals and Properties of Their Cationic Species (Grad. Sch. Sci., Eng., Saitama Univ.; Coll. Sci., Rikkyo Univ.) ○MIBU, Soshi; FURUKAWA, Shunsuke; MINOURA, Mao; SAITO, Masaichi

3PC-008 Synthetic Studies on Conjugated Systems Containing Group 14 Elements and Thiophenes. (Fac. Sci. Eng., Kindai Univ.) ○YAGURA, Shogo; OHNO, Ryoma; MATSUO, Tsukasa

3PC-009 Attempted Synthesis of a Sterically Demanding Bidentate Biphenyl-type Ligand for Stabilizing Divalent Species of Heavier Group 14 Element Species. (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○HIRASAKA, Kohichi; SASAMORI, Takahiro

3PC-010 Attempted Synthesis of Low-coordinated Organosilicon Species Bearing a Bulky Ferrocenyl Substituent (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○PAN, Yang; SASAMORI, Takahiro

3PC-011 Creation of a Sterically Demanding Ferrocenyl Group as a Stabilizing Ligand for Low-coordinated Heavier Group-14-Element Species. (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○SHIBATA, Masashi; SASAMORI, Takahiro

3PC-012 Synthesis and Optical Properties of Chiral Fluorene Derivatives and Their Polyfluorenes (Fac. Sci. Eng., Kindai Univ.) ○ITO, Ryo; NAKAHODO, Tsukasa; HUIJIHARA, Hisashi

3PC-013 Synthetic Study on Bidentate Ligands with Diphosphene and Phosphine Units (Grad. Sch. Sci., Osaka Pref. Univ.) ○TAKECHI, Shingo; TSURUSAKI, Akihiro; KAMIKAWA, Ken

3PC-014 Synthesis and Properties of Bis(trialkylsulfonium) Salts (Fac. Sci., TMU) ○MITSUI, Tatsuo; SATOU, Dai; HIRABAYASHI, Kazunori; SHIMIZU, Toshio

3PC-015[#] Synthetic Study of a Cysteine-derived *N*-Hydroxysulfenamide by Taking Advantage of a Molecular Cradle (Sch. Sci., Tokyo Tech.) ○YAMAGUCHI, Misuzu; SASE, Shohei; GOTO, Kei

3PC-016 Synthesis and properties of cyclic naphthyl tris-selenide (Fac. Sci. Eng., Kindai Univ.) ○SHINODA, Hazuki; NAKAHODO, Tsukasa; FUJIHARA, Hisashi

3PC-017 Synthesis of Silicon-containing Compounds Having Novel Bulky Aromatic Ligands Bearing a 9-Triptycylmethyl Group (Coll. Sci., Rikkyo Univ.) ○URAKAMI, Kazuya; MINOURA, Mao

3PC-018 Synthetic Study of Primary-alkyl-substituted *N*-Hydroxysulfenamides and Elucidation of Their Reactivity (Sch. Sci., Tokyo Tech.) ○KITO, Kiyohito; ISHIHARA, Michihiro; SASE, Shohei; GOTO, Kei

3PC-019 Development of regioselective and stereoselective reaction introducing the chalcogen atom to an aromatic compound bearing terminal diyne (Sch. Eng., Osaka Pref. Univ.) ○SAKAI, Tastuya; NOMOTO, Akihiro; UESHIMA, Michio; OGAWA, Akiya

3PC-020 Synthesis and Separation of Diastereomeric 1,2-Dichlorodisilanes and Their Application to New Silicon-containing Reactive Species (ICR, Kyoto Univ.) ○JUN-I, Yuta; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

3PC-021[#] Silica gel-assisted preparation of multihalo-benzo[b]thiophenes and its application to regioselective introduction of substituents (Grad. Sch. Sci., Tohoku Univ.) ○MIKAMI, Shinichi; TANAKA, Hiroki; KISHI, Hiroki; YOSHIDA, Shuhei; TOYOTA, Kozo

3PC-022 Preparation and luminescent properties of bithiophene-phospho-

nium derivatives supported by Laponite (Coll. Industrial Tech., Nihon Univ.) ○IWASHITA, Yusuke; FUJII, Takayoshi

- 3PC-023** Synthesis and Reactions of Aminosilanes Bearing Bulky Group (ICR, Kyoto Univ.) ○JO, Min Woo; YUKIMOTO, Mariko; TOKITOH, Norihiro

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Ag

- 3PC-025** Asymmetric Mannich-Type Reaction of Isatinimines Catalyzed by a Chiral Phosphine-Silver Alkoxide (Grad. Sch. Sci., Chiba Univ.) ○GOMI, Kyonosuke; YANAGISAWA, Akira

B

- 3PC-026[#]** Facile Syntheses of Alkaloids Using Photo-induced Reactions between Isoquinolines and Tetra-coordinate Benzylboron Reagents (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○OHTANI, Takuya; NISHIGAICHI, Yutaka

Bi

- 3PC-027** Development of environment friendly organic reactions using bismuth compounds as a catalyst (Fac. Integrated Arts and Sci., Tokushima Univ. Grad. Sch.) ○KUSAKA, Ryo; OHMURA, Satoshi; MIYOSHI, Norikazu; UENO, Masaharu

Co

- 3PC-028** Cobalt-Catalyzed Trimerization of α,ω -Diyne via [2+2+2] Cycloaddition (Fac. Sci. Technol., TUS) ○NAKAMURA, Koji; NAKATSUKA, Hitoshi; OGIWARA, Yohei; SAKAI, Norio

Cu

- 3PC-029[#]** Synthesis of Isoxazoline *N*-Oxides by Copper-Mediated Regioselective Annulation of Alkenes with Bromonitroalkanes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ○IKEMOTO, Yuichi; IWASAKI, Masayuki; NISHIHARA, Yasushi
- 3PC-030** Preparation of Thiacyclic Compounds from Aromatic Disulfides with Diols under Copper Catalyst (Fac. Eng., Yamagata Univ.) ○SATO, Soma; MINAKAWA, Maki

Fe

- 3PC-031[#]** Fe-catalyzed Direct Transformation of Benzylic Amines to Carbonyl Compounds in Water (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MINAKAWA, Maki
- 3PC-032** Iron-Catalyzed Intramolecular C(sp³)-H Amination of Oxime Esters Involving 1,5-Hydrogen Atom Transfer (Sch. Eng., Kyoto Univ.) ○TSUJI, Daichi; MATSUSHITA, Gaku; EGUCHI, Akira; SHINBAYASHI, Takuya; OKAMOTO, Kazuhiro; OHE, Kouichi

Ir

- 3PC-033** Chiral Iridium Complex Derived from [IrCl(cod)]₂ and Azolium Salt for Catalytic Hydrosilylation of Ketone (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MATSUKI, Toshiya; SAKAGUCHI, Satoshi
- 3PC-034** Iridium-catalyzed Asymmetric Hydrosilylation Reaction with Chiral NHC Ligand having Merrifield Resin Side-Arm (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○INUI, Kazuki; SAKAGUCHI, Satoshi
- 3PC-035** Iridium-Catalyzed Dehydrogenative Lactonization of 1,4-Butanediol and Reversal Hydrogenation (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○FUJITA, Ken-ichi; ONODA, Mitsuki; NAGANO, Yuta
- 3PC-036** Synthesis of Iridium Complexes Having Cyclopentadienyl Ligands with Various Electronic and Steric Properties and Studies on Their Catalytic Activity (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○JEONG, Jaeyoung; SHIMBAYASHI, Takuya; FUJITA, Ken-ichi

Mn

- 3PC-037** Synthesis of the phosphine-olefin ligands based on a planar-chiral Cp Mn complex and their application to asymmetric reactions (Grad. Sch. Sci., Osaka Pref. Univ.) ○SHIMAMOTO, Ryosuke; OHYA, Naoki; TURUSAKI, Akihiro; KAMIKAWA, Ken

Mo

- 3PC-038** Effects of additives on catalytic polymerization of secondary hydrosilanes containing aromatic groups (Grad. Sch. Eng., Yokohama Natl. Univ.) ○SHIMIZU, Takahiro; MINATO, Makoto

Si

- 3PC-039** Polymerization of vinyl monomers using polysilanes as initiators (Grad. Sch. Eng., Yokohama Natl. Univ.) ○HASHINO, Mayu; MINATO, Makoto

Nb

- 3PC-040** Niobium-catalyzed cycloaddition of nitriles to form triazine derivatives (Fac. Chem. Materials and Bioeng., Kansai Univ.; TOHO KASEI CO., LTD.) ○SHIRAISHI, Yuta; FUJI, Maito; HATO, Wataru; ISOMURA, Yuto; UCHIDA, Akito; OBORA, Yasushi
- 3PC-041** Ring opening metathesis polymerization with alkoxy niobium as a catalyst precursor (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○ARATANI, Shunsuke; FUJI, Maito; SOTANI, Taichi; SANDA, Fumio; YAJIMA, Tatsuo; OBORA, Yasushi
- 3PC-042** Niobium catalyzed synthesis of benzene derivatives from alkyne with olefin (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○SEKII, Yusaku; OBORA, Yasushi

Ni

- 3PC-043** Ni-Catalyzed silaboration of alkynes (National Institute of Technology, Nara College) KAMEI, Toshiyuki; ○MINAMINO, Naoto; NISHINO, Soshi; ISHIBASHI, Hisayasu; SHIMADA, Toyoshi

Pd

- 3PC-044** Development of amide type chiral ligands with cinnamoyl group from chiral amines (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○AKIYAMA, Takumu; SAITO, Ryo; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 3PC-045** Direct Alkenylation of Thiophenes Catalyzed by Dinuclear Palladium Complexes (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○ASAHARA, Nozomi; TSUKADA, Naofumi
- 3PC-046[#]** Versatile Synthesis of Bulky Alkylphosphine Derivatives from Alkenylphosphines (Grad. Sch. Sci., Eng., Ehime Univ.) ○SOGABE, Shota; NGO, Khanh Linh; OHTA, Hidetoshi; HAYASHI, Minoru
- 3PC-047[#]** Palladium-Catalyzed Regioselective Silylation of Boryl-Substituted Allyl Benzoates using Silylboranes (Fac. Eng., Univ. of Toyama) ○SAKAMOTO, Juri; MURAKAMI, Miki; HORINO, Yoshikazu; ABE, Hitoshi

Pt

- 3PC-048[#]** DMF-protected Fe-Pt bimetallic nanoparticles catalyst for hydro-silylation with olefins (Fac. Chem. Materials and Bioeng., Kansai Univ.; ISIR, Osaka Univ.) ○TANAKA, Tatsuya; AZUMA, Ryusei; LIN, Xianjin; KONDO, Ryota; SUZUKI, Takeyuki; OBORA, Yasushi
- 3PC-049[#]** Platinum-catalyzed alkenylation of acetals and amins with alkenylsilanes (Grad. Sch. Sci., Eng., Saitama Univ.) ○SARUDATE, Takai; KINOSHITA, Hidenori; MIURA, Katsukiyo

Ru

- 3PC-050** Hydroamination of allylic alcohols to C-C double bond using primary amines (Fac. Life Med. Sci., Doshisha Univ.) ○DAIBO, Masato; NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo
- 3PC-051** Alkylation of methyl group of heteroaromatic compounds by using alcohols as alkylating reagents with Ru/In dual catalysis (Fac. Life Med. Sci., Doshisha Univ.; Fac. Life Med. Sci., Doshisha Univ.) ○AZUMA, Akihiro; KATO, Soichiro; OE, Yohei; OHTA, Tetsuo

Sn

- 3PC-052** Asymmetric α -Amination Using Chiral Tin Alkoxide Catalysts (Grad. Sch. Sci., Chiba Univ.) ○NAKANO, Ryuta; YAMASHITA, Yoshiki; UCHIYAMA, Chika; YANAGISAWA, Akira
- 3PC-053** Asymmetric α -Azidation of β -Ketoesters Using Chiral Tin Alkoxide Catalysts (Grad. Sch. Sci., Chiba Univ.) ○EBIHARA, Toru; RUSSELL, Go Martin; HORIGUCHI, Moe; YANAGISAWA, Akira
- 3PC-054[#]** Binary 1,5-Remote Asymmetric Induction from Chiral Allyl Tin Reagent Containing Phosphate Ester and Functional Group Transformation (Fac. Sci. Eng., Shimane Univ.) ○HAYAMI, Kuniyuki; NISHIGAICHI, Yutaka
- 3PC-055[#]** Synthesis of enigmol derivatives using 1,4-remote asymmetric induction and stereoselective reduction reaction as key steps (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○NISHIO, Haruka; NISHIGAICHI, Yutaka

Sr

- 3PC-056** A study of transformation of carbonyl/amide moieties by metallic strontium as an electron source (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima

Univ.) OHMURA, Satoshi; KIMURA, Shodai; UENO, Masaharu;
MIYOSHI, Norikazu

3PC-057 A study of alkylation into N-atom contained disk-like molecules by using metallic strontium (Fac. Integrated Arts Sci., Tokushima Univ.; Tokushima Univ.) OHIRATA, Kazuya; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu