

Program

Room S5

Lecture Hall Bldg. K702

Fundamentals and Applications of Synchrotron-based SAXS Measurement

Sunday, March 22, AM

(9 : 30 ~ 9 : 35)

1S5-01 Special Program Lecture Opening remarks on the recent advances in SAXS (ICR, Kyoto Univ.) ○TAKAYA, Hikaru (09:30~09:35)

Chair: TAKAYA, Hikaru (9 : 35 ~ 10 : 35)

1S5-02 Special Program Lecture Structure analyses by Synchrotron Small Angle X-ray Scattering Technique (ICR, Kyoto Univ.) ○TAKENAKA, Mikihito (09:35~10:05)

1S5-03 Special Program Lecture Synchrotron radiation small-angle X-ray structure analysis: Measurement methods and examples (JASRI) ○MASUNAGA, Hiroyasu (10:05~10:35)

Chair: HONMA, Tetsuo (10 : 35 ~ 12 : 25)

1S5-04 Special Program Lecture Structural analysis of supramolecular assemblies by small angle x-ray scattering measurements. (Grad. Sch. Eng., Kyoto Univ.) ○NISHIMURA, Tomoki (10:35~11:05)

1S5-05 Special Program Lecture Small-angle and Ultra-small-angle X-ray Scattering Studies on Polymer Materials (IMCE, Kyushu Univ.) ○KOJIO, Ken (11:05~11:30)

1S5-06 Special Program Lecture In situ Analysis for Coagulation Process of Cuprammonium Rayon by Small Angle X-ray Scattering (Asahi Kasei Corp.) ○SAKAMOTO, Naoki; YAMAGATA, Maiko; HIROSAWA, Kazu; IWAMA, Tatsuhiro (11:30~11:55)

1S5-07 Special Program Lecture Application of small-angle and wide-angle X-ray in biomass material structure research (JASRI) ○KABE, Taizo (11:55~12:25)

(12 : 25 ~ 12 : 30)

1S5-08 Special Program Lecture Closing Remarks (ICR, Kyoto Univ.) ○TAKENAKA, Mikihito (12:25~12:30)

Special Lecture

Monday, March 23, AM

Chair: YORIMITSU, Hideki (9 : 30 ~ 10 : 20)

2S5-01# Special Lecture Applications of Main Group Heterobimetallics: Catalysis and Templated Metallation (Univ. of Strathclyde; Univ. de Huelva; Univ. Bern) ○O'HARA, Charles; Martínez-Martínez, Antonio J.; Bruña, Sonia; Fairley, Michael; Hevia, Eva; Kennedy, Alan R. (09:30~10:20)

Chair: MURAKAMI, Masahiro (11 : 30 ~ 12 : 20)

2S5-02# Special Lecture Stereoselective Synthesis *via* Reactive Metal Carbene and Oxonium Ylide Intermediates (Univ. of Geneva) ○LACOUR, Jerome (11:30~12:20)

Integration of molecular dynamics analysis and information science to analyze advanced cell functions

Monday, March 23, PM

(13 : 30 ~ 13 : 45)

2S5-03 Medium and Long-Term Program Lecture Opening remarks (Grad. Sch. Sci., TMU) ○ITO, Yutaka (13:30~13:45)

Chair: TAMIYA, Eiichi (13 : 45 ~ 15 : 15)

2S5-04 Medium and Long-Term Program Lecture Next Generation Proteomics by Integrating Mass Spectrometry with Intelligent Statistical Analysis (Grad. Sch. Pharm. Sci., Kyoto Univ.) ○ISHIHAMA, Yasushi (13:45~14:15)

2S5-05 Medium and Long-Term Program Lecture Protein structure determinations in living cells (Grad. Sch. Sci., TMU; Goethe Univ.; ETH) ○IKEYA, Teppei; TANAKA, Takashi; TATEISHI, Yutaka;

OKADA, Mayu; GÜNTERT, Peter; ITO, Yutaka (14:15~14:45)

2S5-06 Medium and Long-Term Program Lecture Single-Molecule Imaging and Single-Particle Simulation of Self-Organization in a Living Cell (Grad. Sch. Frontier Biosci., Osaka Univ.; PRESTO, JST; RIKEN BDR) ○MATSUOKA, Satomi; UEDA, Masahiro (14:45~15:15)

Chair: ITO, Yutaka (15 : 30 ~ 16 : 30)

2S5-07 Medium and Long-Term Program Lecture Molecular Imaging of Living Cells by Sparse Multivariate Analysis of Raman Spectroscopy (Research Org. for Nano & Life Innovation, Waseda Univ.; PRESTO, JST) ○ANDO, Masahiro (15:30~16:00)

2S5-08 Medium and Long-Term Program Lecture Spatiotemporal analysis of biomolecules via data assimilation to high-speed AFM measurement (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKADA, Shoji (16:00~16:30)

(16 : 30 ~ 16 : 35)

2S5-09 Medium and Long-Term Program Lecture Summary (Grad. Sch. Eng., Osaka Univ.) ○TAMIYA, Eiichi (16:30~16:35)

Innovative Catalysts: Electro- and Photo-assisted Catalytic Reaction

Tuesday, March 24, PM

Chair: KITAGAWA, Hiroshi (13 : 30 ~ 15 : 30)

3S5-01 Medium and Long-Term Program Lecture Design of visible light responsive photocatalysts toward solar hydrogen production (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (13:30~14:00)

3S5-02 Medium and Long-Term Program Lecture Design of photoelectrochemical reaction field for the conversion of gaseous molecules (Fac. Env. Eng., The Univ. of Kitakyushu) ○AMANO, Fumiaki (14:00~14:30)

3S5-03 Medium and Long-Term Program Lecture Computational study on redox reactions of inhomogeneous catalyst (GREEN, NIMS) ○TATEYAMA, Yoshitaka (14:30~15:00)

3S5-04 Medium and Long-Term Program Lecture Low temperature heterogeneous catalytic reaction promoted by surface protonics (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○SEKINE, Yasushi (15:00~15:30)

Chair: NOZAKI, Kyoko (15 : 30 ~ 17 : 30)

3S5-05 Medium and Long-Term Program Lecture Reaction Field of Solid Controlled by Microwaves (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WADA, Yuji (15:30~16:00)

3S5-06 Medium and Long-Term Program Lecture Frontiers of electron-driven catalytic reactions by nonthermal plasma (Sch. Eng., Tokyo Tech.) ○NOZAKI, Tomohiro (16:00~16:30)

3S5-07 Medium and Long-Term Program Lecture Catalytic reactions using electrochemical microflow reactors (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SUGA, Seiji (16:30~17:00)

3S5-08 Medium and Long-Term Program Lecture Mechanism of light-induced water-splitting in natural photosynthesis (RIIS, Okayama Univ.) ○SHEN, Jian-ren (17:00~17:30)

Gyroid in Materials

Wednesday, March 25, AM

Chair: NISHIHARA, Hiroto (9 : 30 ~ 11 : 00)

4S5-01# Special Program Lecture Geometry in Soft Mater Gyroid: From a Numerical Study Viewpoint (Fac. Sci. Eng., Kindai Univ.) ○DOTERA, Tomonari (09:30~10:00)

4S5-02# Special Program Lecture Molecular Spin Gyroids Formed with Polyhedral π Conjugated Molecules (Grad. Sch. Sci., Nagoya Univ.) ○SHUKU, Yoshiaki; MIZUNO, Asato; AWAGA, Kunio (10:00~10:30)

4S5-03# Special Program Lecture Supramolecular Structures with Metal-Oxalate Framework for Molecular Electronic Materials based on Gyroids (RIES, Hokkaido Univ.) ○NAKAMURA, Takayoshi (10:30~11:00)

Chair: NAKAMURA, Takayoshi (11 : 00 ~ 12 : 30)

4S5-04# Special Program Lecture Nanoporous frameworks with single-layer graphene walls towards gyroid graphenes (IMRAM, Tohoku Univ.) ○NISHIHARA, Hiroto (11:00~11:30)

4S5-05# Special Program Lecture Design of Functional Gyroid Surface through Self-organization of Liquid-crystalline Amphiphiles (Grad. Sch.

Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ICHIKAWA, Takahiro (11:30~12:00)

4S6-06# Special Program Lecture Construction of Huge Double Gyroid Network Structure by Block Copolymers (Grad. Sch. Eng., Nagoya Univ.) ○TAKANO, Atsushi (12:00~12:30)

Room S6

Lecture Hall Bldg. K703

The Next Generation of Medical Technology Innovated by Mass Spectrometry

Sunday, March 22, AM

(9 : 30 ~ 9 : 35)

1S6-01 Special Program Lecture Aim of this session (THCU) ○MATSUMURA, Yuriko (09:30~09:35)

Chair: MATSUMURA, Yuriko (9 : 35 ~ 10 : 00)

1S6-02 Special Program Lecture Collaborative Research & Development for Advanced Healthcare utilizing the synergistic combination of technologies in analytical science and medical diagnostic imaging (Shimadzu Corp.) ○YAMAGUCHI, Ryo (09:35~10:00)

Chair: OKURA, Ichiro (10 : 00~11 : 00)

1S6-03 Special Program Lecture Current status on the analysis of functional components in agricultural products (NARO) ○ORITO, Fumio; YAMAMOTO-MAEDA, Mari; KATADA, Kazuya (10:00~10:30)

1S6-04 Special Program Lecture Development and application of analytical methods and software tools aiming to contribute to biomarker discovery and verification (Grad. Sch. Eng., Osaka Univ.; Shimadzu Corp.) ○IIDA, Junko (10:30~11:00)

Chair: OHTSUKA, Satoshi (11 : 00~12 : 30)

1S6-05 Special Program Lecture MALDI-TOFMS-based plasma biomarker analysis for early detection of Alzheimer's disease (Shimadzu Corp.) ○IWAMOTO, Shinichi (11:00~11:30)

1S6-06 Special Program Lecture Application of Mass Spectrometry to Regenerative Medicine and Cell Therapy (Shimadzu Corp.) ○EZURE, Toru (11:30~12:00)

1S6-07 Special Program Lecture Discovery of bio marker for allergic disease using mass-spectrometry (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○MURATA, Takahisa (12:00~12:30)

Presence of Chemistry in Life Sciences

Monday, March 23, AM

(9 : 00 ~ 9 : 05)

2S6-01 Medium and Long-Term Program Lecture Introduction (Grad. Sch. Life Sci., Tohoku Univ.) ○ARIMOTO, Hirokazu (09:00~09:05)

Chair: ARIMOTO, Hirokazu (9 : 05 ~ 10 : 55)

2S6-02 Medium and Long-Term Program Lecture Recent Advances in the Study of PPI-inducing Natural Products (Grad. Sch. Bioagr. Sci., Nagoya Univ.) ○KITA, Masaki (09:05~09:30)

2S6-03 Medium and Long-Term Program Lecture Marine natural products that capture cell barriers (Grad. Sch. Fisheries Sci., Hokkaido Univ.) ○SAKAI, Ryuichi (09:30~09:55)

2S6-04 Medium and Long-Term Program Lecture New frontier of ubiquitin research - from chemo-technologies to phase separation (TMIMS) ○SAEKI, Yasushi (09:55~10:30)

2S6-05 Medium and Long-Term Program Lecture Development of Chemical Protein Knockdown Technology by SNIPER Compounds and its Application for Cell Regulation (NIHS) ○NAITO, Mikihiro (10:30~10:55)

Chair: KITA, Masaki (10 : 55~11 : 55)

2S6-06 Medium and Long-Term Program Lecture A UTA Cs: Cargo-Specific Degradation Using Selective Autophagy (Grad. Sch. Life Sci., Tohoku Univ.) ○ARIMOTO, Hirokazu (10:55~11:20)

2S6-07 Medium and Long-Term Program Lecture Technology of Phasing Biology (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SHIRAKI, Kentaro (11:20~11:55)

(11 : 55~12 : 00)

2S6-08 Medium and Long-Term Program Lecture Closing remarks (Grad. Sch. Bioagr. Sci., Nagoya Univ.) ○KITA, Masaki (11:55~12:00)

Luminescence Chemistry Ensemble: Debate the Mystery of Solid-state Light Emission! -From the Standpoint of Molecular Design, Synthesis, and Measurement- Wednesday, March 25, AM

(9 : 30 ~ 9 : 35)

4S6-01 Special Program Lecture Opening Remarks (Fac. Edu., Shinshu Univ.) ○ITO, Fuyuki (09:30~09:35)

Chair: KONISHI, Gen-ichi (9 : 35 ~ 11 : 00)

4S6-02 Special Program Lecture Design of Highly Emissive Molecules Based on Molecular Orbitals and Intermolecular Interactions (ICR, Kyoto Univ.) ○HIROSE, Takashi (09:35~09:50)

4S6-03 Special Program Lecture Understanding the mechanism of circularly polarized light emission from a chiral excimer model compound (IMRAM, Tohoku Univ.) ○ARAKI, Yasuyuki (09:50~10:05)

4S6-04 Special Program Lecture Molecular Design and Emitting Properties of Amorphous Molecular Materials (Murooran Inst. of Tech.) ○NAKANO, Hideyuki (10:05~10:20)

4S6-05 Special Program Lecture Fluorescence properties induced by molecular aggregation in highly purified organic crystals (Sch. Eng., Nihon Univ.) ○KATO, Ryuzi (10:20~10:35)

4S6-06 Special Program Lecture From aggregates model to Amorphous (Fac. Edu., Shinshu Univ.) ○ITO, Fuyuki (10:35~11:00)

Chair: IKEDA, Hiroshi (11 : 00~12 : 25)

4S6-07 Special Program Lecture Design and intermolecular interaction of mechanochromically luminescent organic crystals (Grad. Fac. Eng., Yokohama Natl. Univ.) ○ITO, Suguru (11:00~11:15)

4S6-08 Special Program Lecture Single-Particle Emission Observation of Stimulation-Induced Structural Changes (MPCR, Kobe Univ.) ○TACHIKAWA, Takashi (11:15~11:30)

4S6-09 Special Program Lecture Structures and intermolecular interactions of stimuli-responsive luminescent molecular crystals (Sch. Eng., Hokkaido Univ.) ○SEKI, Tomohiro (11:30~11:45)

4S6-10 Special Program Lecture Time-resolved Microspectroscopy for Emissive Organic Single Microcrystal (Grad. Sch. Sci., Eng., Ehime Univ.) ○ISHIBASHI, Yukihide (11:45~12:00)

4S6-11 Special Program Lecture Changes in crystal structure involving mechanochromism (IIS, The Univ. of Tokyo) ○MUTAI, Toshiki (12:00~12:25)

(12 : 25~12 : 30)

4S6-12 Special Program Lecture Opening Remarks (Fac. Edu., Shinshu Univ.) ○ITO, Fuyuki (12:25~12:30)

Microwave Heating and Their Industrial Applications

Wednesday, March 25, PM

(13 : 35~13 : 45)

4S6-13 Special Program Lecture Future Scope and Today's Program (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WADA, Yuji (13:35~13:45)

Chair: MASE, Nobuyuki (13 : 45~14 : 45)

4S6-14 Special Program Lecture Microwave Sintering process of fly Ash Containing Unburned Carbon and Sodium Chloride (Chugoku Kouatsu Concrete Industries Co., Ltd.) ○TANAKA, Hitoshi; KASHIMURA, Keiichiro (13:45~14:05)

4S6-15 Special Program Lecture Applications of microwave heating for automobile (Toyota Central R&D Labs., Inc.) ○FUKUSHIMA, Hideoki (14:05~14:25)

4S6-16 Special Program Lecture Theory of microwave chemistry (AIST) ○SUGIYAMA, Jun-ichi (14:25~14:45)

Chair: YAMADA, Yoichi M. A. (15 : 05~16 : 25)

4S6-17 Special Program Lecture Recent Advances on Microwave-Assisted Organic Synthesis (ICR, Kyoto Univ.; IMS) ○TAKAYA, Hikaru (15:05~15:25)

4S6-18 Special Program Lecture In situ and operando spectroscopy of reaction field under electromagnetic waves (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TSUBAKI, Shuntaro (15:25~15:45)

4S6-19 Special Program Lecture Thermodynamics in Microwave Heating (Coll. Eng., Chubu Univ.) ○KASHIMURA, Keiichiro (15:45~16:05)

4S6-20 Special Program Lecture Microwave-mediated continuous-flow dehydrogenation reaction (Gifu Pharm. Univ.) ○SAJIKI, Hironao (16:05~16:25)

(16 : 25~16 : 30)

1S7-17 Special Program Lecture Closing Remarks (Panasonic Corp.) ○INATOMI, Yuu (16:25~16:30)

Nanosheet: Coordination Chemistry with 2D Structure

Monday, March 23, PM

Chair: CHANG, Hochol (13 : 30~15 : 20)

2S7-01 Medium and Long-Term Program Lecture Development of Graphene Oxide Hybrids (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○HAYAMI, Shinya (13:30~14:00)

2S7-02 Medium and Long-Term Program Lecture Optoelectronic devices based on van der Waals heterostructures (NUS) ○EDA, Goki (14:00~14:40)

2S7-03 Medium and Long-Term Program Lecture TMD-based two-dimensional heterostructures (Grad. Sch. Sci., Nagoya Univ.) ○KITAURA, Ryo (14:40~15:20)

Chair: MIYASAKA, Hitoshi (15 : 30~17 : 30)

2S7-04 Medium and Long-Term Program Lecture Post-graphene technology based on 2D oxides (IMaSS, Nagoya Univ.; MANA, NIMS) ○OSADA, Minoru (15:30~16:10)

2S7-05 Medium and Long-Term Program Lecture Air/liquid interfacial synthesis of porous metal complex nanosheets : Morphology tuning and creation of new functions (Grad. Sch. Eng., Osaka Pref. Univ.) ○MAKIURA, Rie (16:10~16:50)

2S7-06 Medium and Long-Term Program Lecture Bottom-up Synthesis of Graphene Nanoribbons: Precursor Design and Structural Control (Max Planck Inst. for Polymer Res.; OIST) ○NARITA, Akimitsu (16:50~17:30)

New paradigm of molecular systems chemistry

Tuesday, March 24, PM

(13 : 30~13 : 40)

3S7-01 Medium and Long-Term Program Lecture Introduction: Frontiers in chemistry of the next-generation molecular systems (IMRAM, Tohoku Univ.) ○TAKAHASHI, Satoshi; YOSHIZAWA, Michito; KITAO, Akio; HAYASHI, Shigehiko (13:30~13:40)

Chair: KITAO, Akio (13 : 40~14 : 30)

3S7-02 Medium and Long-Term Program Lecture Toward theoretical design of functional protein systems (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ARAI, Munehito (13:40~14:05)

3S7-03 Medium and Long-Term Program Lecture Combining first-principle calculations and chemical kinetics: Toward the prediction of the performance of heterogeneous catalyst systems (GREEN, NIMS) ○ISHIKAWA, Atsushi (14:05~14:30)

Chair: YOSHIZAWA, Michito (14 : 40~15 : 55)

3S7-04 Medium and Long-Term Program Lecture Biological system provides a design guide of novel functional material: Multi-functionality achieved in inhomogeneous medium (Grad. Sch. Sci., Tohoku Univ.) ○KONDO, Toru (14:40~15:05)

3S7-05 Medium and Long-Term Program Lecture Design of pi-conjugated monomers and polymers and their assemblies (RCFM, NIMS) ○TAKEUCHI, Masayuki (15:05~15:30)

3S7-06 Medium and Long-Term Program Lecture Driving forces for LCST-type polymer collapse (Fac. Textile Sci. Technol., Shinshu Univ.) ○MOCHIZUKI, Kenji (15:30~15:55)

Chair: TAKAHASHI, Satoshi (16 : 05~17 : 20)

3S7-07 Medium and Long-Term Program Lecture Reconstitution of the cell motility and division machineries from minimum molecular components (Hakubi Center, Kyoto Univ.) ○MIYAZAKI, Makito (16:05~16:30)

3S7-08 Medium and Long-Term Program Lecture Entropy-Driven Self-Assembly of Soft Materials (Fac. Sci. Tech., Keio Univ.) ○ASAI, Makoto (16:30~16:55)

3S7-09 Medium and Long-Term Program Lecture Development of Stimuli-Responsive Nanocapsules (Lab. Chem. Life Sci., Tokyo Tech.) ○YOSHIZAWA, Michito (16:55~17:20)

(17 : 20~17 : 30)

3S7-10 Medium and Long-Term Program Lecture Discussion (Sch. Life Sci. Tech., Tokyo Tech.) ○KITAO, Akio (17:20~17:30)

Room S7

Lecture Hall Bldg. K704

Latest Developments in Cell Analysis

Sunday, March 22, AM

(9 : 30 ~ 9 : 35)

1S7-01 Special Program Lecture Introduction (Grad. Sch. Sci. Tech., Gunma Univ.) ○SATO, Kiichi (09:30~09:35)

Chair: SATO, Kiichi (9 : 35 ~ 10 : 50)

1S7-02 Special Program Lecture Manipulating living systems by light (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SATO, Moritoshi (09:35~10:00)

1S7-03 Special Program Lecture Electrochemical devices for analysis and biofabrication of 3D cultured cells (Grad. Sch. Eng., Tohoku Univ.) ○INO, Kosuke (10:00~10:25)

1S7-04 Special Program Lecture Design and creation of photo-responsive cell immobilization reagents (RCAST, The Univ. of Tokyo) ○YAMAGUCHI, Satoshi (10:25~10:50)

Chair: SATO, Kae (11 : 00~12 : 25)

1S7-05 Special Program Lecture The use of 3D cell culture technology to model the tissue microenvironment and its applications in studying disease (Grad. Sch. Dent. and Phar. Sci., Okayama Univ.) ○TANAKA, Hiroyoshi; KANO, Mitsunobu (11:00~11:25)

1S7-06 Special Program Lecture Cell-based assays integrated in "Body on a Chip" platform (WPI-iCeMS, Kyoto Univ.) ○KAMEI, Ken-ichiro (11:25~11:50)

1S7-07 Special Program Lecture Development of pressure-driven microphysiological systems (BRD, AIST) ○SUGIURA, Shinji (11:50~12:15)

1S7-08 Special Program Lecture Microfluidic commercial products for biotechnology industry (Inst. Micro. Tech. Co., Ltd.) ○TAZAWA, Hidekatsu (12:15~12:25)

(12 : 25~12 : 30)

1S7-09 Special Program Lecture Conclusions (Fac. of Sci., JWU) ○SATO, Kae (12:25~12:30)

Innovation of Energy Storage Devices through Sustainable Functional-Redox Chemistry

Sunday, March 22, PM

(13 : 30~13 : 35)

1S7-10 Special Program Lecture Opening Remarks (Grad. Sch. Eng., Tottori Univ.) ○NOKAMI, Toshiki (13:30~13:35)

Chair: SHIMAKOSHI, Hisashi (13 : 35~14 : 00)

1S7-11 Special Program Lecture Interfacial design of the electrocatalyst for polymer electrolyte membrane fuel cell showing high activity. (Grad. Sch. Eng., Kyushu Univ.) ○FUJIGAYA, Tsuyohiko (13:35~14:00)

Chair: INAGI, Shinsuke (14 : 00~14 : 25)

1S7-12 Special Program Lecture Energy devices utilizing biofunctions (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TSUJIMURA, Seiya (14:00~14:25)

Chair: NOKAMI, Toshiki (14 : 25~14 : 50)

1S7-13 Special Program Lecture Rutile TiO₂ Negative Electrodes for Na-Ion Batteries (Grad. Sch. Eng., Tottori Univ.) ○USUI, Hiroyuki (14:25~14:50)

Chair: AMAYA, Toru (15 : 00~15 : 25)

1S7-14 Special Program Lecture Development of Secondary Batteries Based on Organic Redox Chemistry (Grad. Sch. Eng. Sci., Osaka Univ.) ○SHIMIZU, Akihiro (15:00~15:25)

Chair: MITSUDO, Koichi (15 : 25~15 : 50)

1S7-15 Special Program Lecture Development of electron storage behavior of molecules and molecule-integrated systems (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YOSHIKAWA, Hirofumi (15:25~15:50)

Chair: INATOMI, Yuu (15 : 50~16 : 25)

1S7-16 Special Program Lecture Next Generation Li-S Battery Using Ionic Liquid Electrolytes (Grad. Fac. Eng., Yokohama Natl. Univ.) ○WATANABE, Masayoshi (15:50~16:25)

Frontiers in Analytical Methods for Nanostructures and Properties

Wednesday, March 25, AM

(9 : 30 ~ 9 : 35)

4S7-01 Special Program Lecture Opening Address (MANA, NIMS) ○IDE, Yusuke (09:30~09:35)

Chair: SUZUKI, Yasutaka (9 : 35 ~ 11 : 00)

4S7-02 Special Program Lecture Fingerprint of powder samples: Energy-resolved distribution of electron traps in metal oxides (Inst. for Cat., Hokkaido Univ.) ○OHTANI, Bunsho (09:35~10:05)

4S7-03 Special Program Lecture Visualization of buried interfaces in ultra thin films by X-rays (AMCP, NIMS) ○SAKURAI, Kenji (10:05~10:35)

4S7-04 Special Program Lecture Single-molecule near field spectroscopy using scanning tunneling microscopy (RIKEN CPR) ○IMADA, Hiroshi (10:35~11:00)

Chair: FUJIMURA, Takuya (11 : 05 ~ 12 : 30)

4S7-05 Special Program Lecture Structural characterization of mesoporous films (R&D Headquarters, Canon Inc.) ○MIYATA, Hirokatsu; KURODA, Kazuyuki (11:05~11:35)

4S7-06 Special Program Lecture Structural analysis of nanomaterials by X-ray pair distribution functions (MANA, NIMS) ○TOMINAKA, Satoshi (11:35~12:00)

4S7-07 Special Program Lecture Analyses of stacking sequences in phyllosilicates (Grad. Sch. Sci., The Univ. of Tokyo) ○KOGURE, Toshihiro (12:00~12:30)

Chiroptical Properties Based on Precisely Controlled Chiral Space: from Science to Technology

Wednesday, March 25, PM

(13 : 30 ~ 13 : 35)

4S7-08 Special Program Lecture Chiroptical Properties of structurally finely designed chiral molecules (Fac. Sci., TMU) ○SUGIURA, Kenichi (13:30~13:35)

Chair: NISHIKAWA, Hiroyuki (13 : 35 ~ 15 : 15)

4S7-09 Special Program Lecture Synthesis and Properties of Oligonaphthalenes with a Helical Arrangement of Fluorescent Fragments (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○TSUBAKI, Kazunori (13:35~14:00)

4S7-10 Special Program Lecture Chiroptical Properties of chiral molecules having D2 point group (Fac. Sci., TMU) ○SUGIURA, Kenichi (14:00~14:15)

4S7-11 Special Program Lecture Synthesis of Helical Conjugated Polymers in External Perturbation-Responsive Chiral Liquid Crystal Field and Their Circularly Polarized Luminescence (Res. Org. Sci. Tech., Ritsumeikan Univ.) ○AKAGI, Kazuo (14:15~14:45)

4S7-12 Special Program Lecture Constructions of Optically Active Second-ordered Structures and the Chiroptical Properties Based on Planar Chiral [2.2]Paracyclophanes (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MORISAKI, Yasuhiro (14:45~15:15)

Chair: HASEGAWA, Masashi (15 : 15 ~ 16 : 30)

4S7-13 Special Program Lecture Circularly polarized luminescence (CPL) and magnetic circularly polarized luminescence (MCPL) from solid-state luminophore (Fac. Sci. Eng., Kindai Univ.) ○IMAI, Yoshitane (15:15~15:30)

4S7-14 Special Program Lecture Innovative Circular Dichroism and Circularly Polarized Luminescence Measurement Methods (JASCO Co.) ○KONDO, Yoshiro (15:30~16:00)

4S7-15 Special Program Lecture Switching of the handedness of circularly polarized luminescence based on the helix inversion of polymer backbones (Grad. Sch. Eng., Kyoto Univ.) ○NAGATA, Yuuya (16:00~16:30)

Room S8

Lecture Hall Bldg. K705

Precise Organic Synthesis and Functional Materials Based on Molecular Space

Sunday, March 22, AM

(9 : 30 ~ 9 : 35)

1S8-01 Special Program Lecture Opening remarks (Syn. Org. Chem. Lab., RIKEN) ○SOHTOME, Yoshihiro (09:30~09:35)

Chair: MURASE, Takashi (9 : 35 ~ 11 : 15)

1S8-02 Special Program Lecture Formation of flexible nano-cavities by using peptide cyclic complexes towards developing functions based on their cooperativity (Fac. Core Res., Ochanomizu Univ.) ○MIYAKE, Ryosuke (09:35~10:05)

1S8-03 Special Program Lecture Making Unexplored Nano-topologies by Supramolecular Polymers (IGPR, Chiba Univ.) ○YAGAI, Shiki (10:05~10:40)

1S8-04 Special Program Lecture Chemistry of Organic Ion-Pair Catalysis (Grad. Sch. Eng., Nagoya Univ.) ○URAGUCHI, Daisuke (10:40~11:15)

Chair: SOHTOME, Yoshihiro (11 : 25 ~ 12 : 30)

1S8-05 Special Program Lecture An efficient screw-sense induction of achiral polymers based on the weak intermolecular interactions (Grad. Sch. Eng., Kyoto Univ.) ○NAGATA, Yuuya (11:25~11:55)

1S8-06 Special Program Lecture Artificially Created metallocatalysts using Protein Matrix as a Reaction Scaffold (Grad. Sch. Eng., Osaka Univ.) ○HAYASHI, Takashi (11:55~12:30)

Chemistry and Retinal Proteins Research

Wednesday, March 25, AM

(9 : 30 ~ 9 : 40)

4S8-01 Special Program Lecture Chemistry and Retinal Proteins Research, Introduction (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KANDORI, Hideki (09:30~09:40)

Chair: INOUE, Keiichi (9 : 40 ~ 10 : 10)

4S8-02 Special Program Lecture Physical Chemistry and Retinal Proteins Research (Molecular Spectroscopy Lab., RIKEN) ○TAHARA, Tahei (09:40~10:10)

Chair: FURUTANI, Yuji (10 : 10 ~ 10 : 40)

4S8-03 Special Program Lecture Bacteriorhodopsin in action (Grad. Sch. Med., Kyoto Univ.) ○IWATA, So (10:10~10:40)

Chair: YAGI, Kiyoshi (10 : 40 ~ 11 : 10)

4S8-04 Special Program Lecture Theoretical Chemistry and Retinal Proteins Research (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAI, Hiromi (10:40~11:10)

Chair: SUHARA, Yoshitomo (11 : 20 ~ 11 : 50)

4S8-05 Special Program Lecture Organic Chemistry and Retinal Proteins Research (Kobe Pharm. Univ.) ○WADA, Akimori (11:20~11:50)

Chair: KATAYAMA, Kota (11 : 50 ~ 12 : 20)

4S8-06 Special Program Lecture Function-related dynamics of GPCR by NMR (Grad. Sch. Pharm., The Univ. of Tokyo) ○SHIMADA, Ichio (11:50~12:20)

(12 : 20 ~ 12 : 30)

4S8-07 Special Program Lecture Chemistry and Retinal Proteins Research, Conclusion (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KANDORI, Hideki (12:20~12:30)

Development of Functional Dye Materials Contributing to SDGs

Wednesday, March 25, PM

(13 : 30 ~ 13 : 35)

4S8-08 Special Program Lecture Introduction (Grad. Sch. Eng., Osaka Pref. Univ.) ○YAGI, Shigeyuki (13:30~13:35)

Chair: OYAMA, Yousuke (13 : 35 ~ 14 : 25)

4S8-09 Special Program Lecture Synthesis of visible-to-near-infra-

red light absorbing dyes for efficient light-driven hydrogen production (Grad. Sch. Urban Envr. Sci., TMU) ○KUBO, Yuji (13:35~14:00)
4S8-10 Special Program Lecture Development of functional dyes using analyses and computational chemistry (KONICA MINOLTA, INC) ○KITA, Hiroshi (14:00~14:25)

Chair: HAYASHI, Hironobu (14 : 25~15 : 15)

4S8-11 Special Program Lecture Optical and Photoacoustic Tumor Imaging Utilizing Near-Infrared Dyes (Grad. Sch. Eng., Kyoto Univ.) ○MIKI, Koji (14:25~14:50)

4S8-12 Special Program Lecture Multi-Functional Organic Dye Materials Enabled by Synthetic Methods for Novel Dye Scaffolds (Grad. Sch. Eng., Osaka Univ.) ○TAKEDA, Youhei (14:50~15:15)

Chair: SHIMIZU, Soji (15 : 15~16 : 20)

4S8-13 Special Program Lecture Expectations for functional dyes of researchers belonging to enterprises (Mitsubishi Chemical Corp.) ○ISHIDA, Mio (15:15~15:40)

4S8-14 Special Program Lecture Donor-Acceptor Interactions for Energy and Biological Applications (Grad. Sch. Eng., Kyoto Univ.) ○IMAHORI, Hiroshi (15:40~16:20)

(16 : 20~16 : 25)

4S8-15 Special Program Lecture Summary (Mitsubishi Chemical Corp.) ○AKIYAMA, Seiji (16:20~16:25)

Room S9

Bldg. 7 Auditorium

CSJ Award Presentation

Sunday, March 22, AM

Chair: OHKUMA, Takeshi (10 : 30~11 : 30)

1S9-01# CSJ Award Presentation Development of New Synthetic Reactions Directing Towards Sustainability (Grad. Sch. Eng., Kyoto Univ.) ○MURAKAMI, Masahiro (10:30~11:30)

Sunday, March 22, PM

Chair: WATANABE, Yoshito (14 : 30~15 : 30)

1S9-02# CSJ Award Presentation Nano-Science of Advanced Metal Complexes Based on Nonlinearity and Quantum Effect: Who is the greatest among Nomo, Ichiro and Ohtani ? (AIMR, Tohoku Univ.) ○YAMASHITA, Masahiro (14:30~15:30)

Tuesday, March 24, AM

Chair: KATAYAMA, Yoshiki (10 : 30~11 : 30)

3S9-01# CSJ Award Presentation Creative Science for Array, Space, and Motion based on the Precise Design of Supramolecular Metal Complexes (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIONOYA, Mitsuhiro (10:30~11:30)

Tuesday, March 24, PM

Chair: MARUOKA, Keiji (14 : 30~15 : 30)

3S9-02# CSJ Award Presentation Development of Methods for Molecular Construction through Direct C-H Bond Transformation (Grad. Sch. Eng., Osaka Univ.) ○MIURA, Masahiro (14:30~15:30)

Wednesday, March 25, AM

Chair: NOMURA, Kotohiro (10 : 30~11 : 30)

4S9-01# CSJ Award Presentation Activation of Polar Small Molecules and Synthesis of Their Polymers based on Rational Design of Catalyst (Grad. Sch. Eng., The Univ. of Tokyo) ○NOZAKI, Kyoko (10:30~11:30)

Room SA

Bldg. 12 1211

Lesson from Nature -Koji Nakanishi Memorial Symposium-

Sunday, March 22, AM

(9 : 30 ~9 : 40)

1SA-01# Special Program Lecture Explanation of purpose (Grad. Fac. Life Sci., Hokkaido Univ.) ○MONDE, Kenji; KOSHOUBU, Jun (09:30~09:40)

Chair: KUSUMI, Takenori (9 : 40 ~10 : 05)

1SA-02# Special Program Lecture Structures and functions of natural product-type biomolecules (Grad. Sch. Sci., Osaka Univ.) ○MURATA, Mihcio (09:40~10:05)

Chair: HARADA, Nobuyuki (10 : 05~10 : 30)

1SA-03# Special Program Lecture Conformation and Configuration Studies of Bio-Molecules, -Exciton Chirality Method- (Grad. Fac. Life Sci., Hokkaido Univ.) ○MONDE, Kenji (10:05~10:30)

Chair: NISHIKAWA, Toshio (10 : 30~10 : 55)

1SA-04# Special Program Lecture Phytochemical natural products chemistry (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Life Sci., Tohoku Univ.) ○UEDA, Minoru (10:30~10:55)

Chair: KAWAGISHI, Hirokazu (10 : 55~11 : 20)

1SA-05# Special Program Lecture Wasp Venoms, Ecological Chemistry of Insects (Fac. Sci., Kanagawa Univ.) ○UEMURA, Daisuke (10:55~11:20)

Chair: SHIMAMOTO, Keiko (11 : 30~11 : 55)

1SA-06# Special Program Lecture Chemistry of Receptor-Lipid Ligands for Understanding of Immune System (Fac. Sci. Tech., Keio Univ.) ○FUJIMOTO, Yukari (11:30~11:55)

Chair: OJIKAWA, Makoto (11 : 55~12 : 20)

1SA-07# Special Program Lecture Therapeutic In Vivo Synthetic Chemistry: Acrolein-Based Cancer Diagnosis and Therapy (Sch. Mater. & Chem. Tech., Tokyo Tech.; RIKEN CPR) ○TANAKA, Katsunori (11:55~12:20)

CSJ Award Presentation

Monday, March 23, AM

Chair: SUGIYAMA, Hiroshi (10 : 30~11 : 30)

2SA-01# CSJ Award Presentation Chemistry of non-double helix nucleic acids in molecular crowding environments (FIBER, Konan Univ.; FIRST, Konan Univ.) ○SUGIMOTO, Naoki (10:30~11:30)

Artificial Photosynthesis: Target reactions and products

Monday, March 23, PM

(13 : 30~13 : 35)

2SA-02 Medium and Long-Term Program Lecture Opening Remarks (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (13:30~13:35)

Chair: ABE, Ryu (13 : 35~14 : 35)

2SA-03 Medium and Long-Term Program Lecture Direct utilization of low concentration of CO₂ (Sch. Sci., Tokyo Tech.) ○ISHITANI, Osamu (13:35~14:05)

2SA-04 Medium and Long-Term Program Lecture Electrocatalytic CO₂ conversion to formate near the theoretical potential (Toyota Central R&D Labs., Inc.) ○SATO, Shunsuke; ARAI, Takeo; SEKIZAWA, Keita; MORIKAWA, Takeshi (14:05~14:35)

Chair: INOUE, Haruo (14 : 50~15 : 50)

2SA-05 Medium and Long-Term Program Lecture Water splitting and CO₂ reduction using semiconductor photocatalysts (Fac. Sci., TUS) ○KUDO, Akihiko (14:50~15:20)

2SA-06 Medium and Long-Term Program Lecture Ammonia synthesis using localized plasmon with a wide resonance band in the visible wavelength range (RIES, Hokkaido Univ.) ○MISAWA, Hiroaki (15:20~15:50)

Chair: KUDO, Akihiko (16 : 05~17 : 05)

2SA-07 Medium and Long-Term Program Lecture Two-electron oxidation of water by molecular catalyst: Formation of hydrogen peroxide (Grad. Sch. Urban Envr. Sci., TMU) Kuttassery, Fazalurhaman; Mathew, Siby; TACHIBANA, Hiroshi; ○INOUE, Haruo (16:05~16:35)

2SA-08 Medium and Long-Term Program Lecture Power-to-X' technology for practical appreciation of artificial photosynthesis (AIST) ○SAYAMA, Kazuhiro (16:35~17:05)

(17 : 05~17 : 10)

2SA-09 Medium and Long-Term Program Lecture Closing Remarks (Grad. Sch. Eng., Kyoto Univ.) ○ABE, Ryu (17:05~17:10)

Room SB

Bldg. 13 1311

Design of the Molecular Residence by Creating New Functional Molecule

Sunday, March 22, AM

(9 : 30 ~9 : 35)

1SB-01 Special Program Lecture The aim of this symposium (Grad. Sch. Pharm., Hokkaido Univ.) ○CHIKAWA, Satoshi (09:30~09:35)

Chair: TAKAYAMA, Masami (9 : 35 ~10 : 05)

1SB-02 Special Program Lecture Medicinal chemistry based on Natural Products considering Residence (Grad. Sch. Pharm., Hokkaido Univ.) ○CHIKAWA, Satoshi (09:35~10:05)

Chair: ARISAWA, Mitushiro (10 : 05~11 : 05)

1SB-03 Special Program Lecture Peptidomimetics based on three-dimensional structural diversity (Grad. Sch. Pharm., Hokkaido Univ.) ○SHUTO, Satoshi (10:05~10:35)

1SB-04 Special Program Lecture Developments of Molecular Simulation Methods for Designing Functionalized Molecules (CCS, Univ. of Tsukuba) ○HARADA, Ryuhei (10:35~11:05)

Chair: CHIKAWA, Satoshi (11 : 05~12 : 05)

1SB-05 Special Program Lecture Research for the discovery of new anti-hyperuricemic agents with the capacity to suppress purine nucleoside absorption as a mode of action. (Kissei Pharmaceutical Co., Ltd.) ○TATANI, Kazuya; HIRATOCHI, Masahiro; KURAMOCHI, Yu; NONAKA, Yoshinori; KAMADA, Noboru; WATANABE, Shinjiro; ITOH, Fumiaki; ISAJI, Masayuki; SHUTO, Satoshi (11:05~11:35)

1SB-06 Special Program Lecture Development of Drug Discovery Platform Utilizing Oligonucleotide Therapeutics (Shionogi & Co., Ltd.) ○KUGIMIYA, Akira (11:35~12:05)

(12 : 05~12 : 10)

1SB-07 Special Program Lecture Summery (Shionogi & Co., Ltd.) ○TAKAYAMA, Masami (12:05~12:10)

CSJ Public Lecture

Sunday, March 22, PM

Chair: FUJIMOTO, Yukari (13 : 30~14 : 20)

1SB-08 CSJ Public Lecture Can we develop a new magic ball? (RIKEN) ○HIMENO, Ryutarō (13:30~14:20)

Chair: FUSE, Shinichiro (14 : 20~15 : 10)

1SB-09 CSJ Public Lecture Genomics for massive margin, Genome Project-LIGHT (Sch. Life Sci. Tech., Tokyo Tech.) ○AIZAWA, Yasunori (14:20~15:10)

Chair: YAMAGUCHI, Junichiro (15 : 20~16 : 10)

1SB-10 CSJ Public Lecture Crafting super molecules (WPI-ITbM, Nagoya Univ.) ○ITAMI, Kenichiro (15:20~16:10)

Chair: SATO, Moritoshi (16 : 10~17 : 00)

1SB-11 CSJ Public Lecture Toward the Mysteries of Sleep (WPI-III) ○YANAGISAWA, Masashi (16:10~17:00)

Special Lecture of the Nobel Prize in Chemistry

Tuesday, March 24, PM

Chair: IDEMOTO, Yasushi (15 : 30~16 : 30)

3SB-01 The Future Society Engendered by Lithium-ion Batteries (Asahi

Kasei Corp.) ○YOSHINO, Akira (15:30~16:30)

Room A1

Lecture Hall Bldg. K101

Chemistry for future energy

Sunday, March 22, AM

Scientific principle of green hydrogen production and utilization
(9 : 40 ~9 : 50)

1A1-05 Opening Remarks / Closing Remarks Explanation of purpose by organizer (RCPV, AIST) ○SAYAMA, Kazuhiro (09:40~09:50)

Chair: SUNADA, Yusuke (9 : 50 ~11 : 00)

1A1-06 ATP Special Invited Lecture Development of catalytic process for synthesis and decomposition of ammonia as an energy carrier (Grad. Sch. Eng., Nagoya Univ.) ○NAGAOKA, Katsutoshi (09:50~10:30)

1A1-10 ATP Invited Lecture Hydrogen generation of ammonia electrolysis with high efficiency at high current density (Sch. Advanced Sci. Eng., Waseda Univ.) ○HANADA, Nobuko (10:30~11:00)

(11 : 00~11 : 10)

1A1-13 ATP Incubation Time (11:00~11:10)

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

1A1-14 ATP Keynote Lecture Scope and expectation for "Hydrogen Society" (Coll. Sci. Tech., Nihon Univ.) ○NISHIMIYA, Nobuyuki (11:10~12:00)

Sunday, March 22, PM

Chair: IKEDA, Sigeru (13 : 10~14 : 20)

1A1-26 ATP Special Invited Lecture Development of High-pressure Hydrogen Production from Formic Acid (RCPT, AIST) ○KAWANAMI, Hajime (13:10~13:50)

1A1-30 ATP Invited Lecture Photocatalytic water splitting over non-oxide semiconductor materials under visible light (OCARINA) ○HIGASHI, Masanobu (13:50~14:20)

(14 : 20~14 : 30)

1A1-33 ATP Incubation Time (14:20~14:30)

Chair: AMAO, Yutaka (14 : 30~16 : 20)

1A1-34 ATP Special Invited Lecture Nano-engineering of metal catalysts for the interconversion of formic acid/CO₂ (Grad. Sch. Eng., Osaka Univ.; ESICB Kyoto Univ.) ○MORI, Kosuke (14:30~15:10)

1A1-38 ATP Invited Lecture Investigation and Design of CO Preferential Oxidation Catalyst for Fuel Cell System Based on Operando Spectroscopy (ESICB, Kyoto Univ.) ○SATO, Katsutoshi (15:10~15:40)

1A1-41 ATP Special Invited Lecture Highly efficient hydrogen production by supported alloy catalysts (Grad. Sch. Urban Envr. Sci., TMU) ○SHISHIDO, Tetsuya (15:40~16:20)

(16 : 20~16 : 30)

1A1-45 ATP Incubation Time (16:20~16:30)

Chair: AMAO, Yutaka (16 : 30~17 : 20)

1A1-46 ATP Keynote Lecture Recent trends on green hydrogen production, transportation/storage, and utilization (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○SEKINE, Yasushi (16:30~17:20)

(17 : 20~17 : 30)

1A1-51 Opening Remarks / Closing Remarks Closing Remarks (OCARINA) ○AMAO, Yutaka (17:20~17:30)

Monday, March 23, AM

Technologies for utilizing green hydrogen: Focusing on the Tokyo 2020 Games
(10 : 00~10 : 10)

2A1-07 Opening Remarks / Closing Remarks Introduction by organizer (GHRC, Yokohama Natl. Univ.) ○OTA, Ken-ichiro (10:00~10:10)

Chair: OTA, Ken-ichiro (10 : 10~11 : 00)

2A1-08 ATP Keynote Lecture Japan's actions toward hydrogen society (ANRE, METI) ○SHIRAI, Toshiyuki (10:10~11:00)

(11 : 00~11 : 10)

2A1-13 ATP Incubation Time (11:00~11:10)

Chair: OTA, Ken-ichiro (11 : 10~11 : 50)

2A1-14 ATP Special Invited Lecture Current status and issues on hydrogen energy and fuel cells (IRCHE, Kyushu Univ.) ○SASAKI, Kazunari (11:10~11:50)

(11 : 50~12 : 00)

2A1-18 ATP Incubation Time (11:50~12:00)

Monday, March 23, PM

Chair: SATOU, Junichi (13 : 00~14 : 10)

2A1-25 ATP Special Invited Lecture Activities of FREA for the future hydrogen society (RENRC, AIST) ○FURUTANI, Hirohide (13:00~13:40)

2A1-29 ATP Invited Lecture Green hydrogen production by alkaline water electrolysis system (Asahi Kasei Corp.) ○USUI, Taketoshi (13:40~14:10)

(14 : 10~14 : 20)

2A1-32 ATP Incubation Time (14:10~14:20)

Chair: FURUTANI, Hirohide (14 : 20~15 : 40)

2A1-33 ATP Special Invited Lecture Characteristics and Outlook of the Toyota Fuel Cell Bus (Toyota Motor Corp.) ○KAGAWA, Takuya (14:20~15:00)

2A1-37 ATP Special Invited Lecture Honda Fuel Cell vehicle Development and Toward the Hydrogen Society (Honda R&D Co.,Ltd.) ○MORIYA, Takashi (15:00~15:40)

(15 : 40~15 : 50)

2A1-41 ATP Incubation Time (15:40~15:50)

Chair: AMAO, Yutaka (15 : 50~16 : 50)

2A1-42 ATP Invited Lecture Fuel Cell (FC) Forklift Truck Development Status (Toyota Industries Corp.) ○YOSHIKAWA, Koji (15:50~16:20)

2A1-45 ATP Invited Lecture New Energy Systems Utilizing Hydrogen Derived from Renewable Energy (Toshiba Energy Systems & Solutions Corp.) ○SATOU, Junichi (16:20~16:50)

(16 : 50~17 : 00)

2A1-48 Opening Remarks / Closing Remarks Closing remark (GHRC, Yokohama Natl. Univ.) ○OTA, Ken-ichiro (16:50~17:00)

Room A2

Lecture Hall Bldg. K102

Chemistry for future energy

Sunday, March 22, AM

Perovskite photovoltaic technologies: challenges to practical uses

(9 : 20 ~9 : 30)

1A2-03 Opening Remarks / Closing Remarks Message from organizers (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (09:20~09:30)

Chair: MATSUO, Yutaka (9 : 30 ~10 : 10)

1A2-04 ATP Special Invited Lecture Material development of perovskite solar cells: current progress and perspectives (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (09:30~10:10)

(10 : 10~10 : 20)

1A2-08 ATP Incubation Time (10:10~10:20)

Chair: IKEDA, Sigeru (10 : 20~11 : 40)

1A2-09 ATP Special Invited Lecture Development of Perovskite Solar Cells for Practical Use (Panasonic Corp.) ○KANEKO, Yukihiro; HIGUCHI, Hiroshi; NISHIHARA, Takashi; UCHIDA, Ryusuke; YAMAMOTO, Teruaki; MATSUI, Taisuke; NEGAMI, Takayuki (10:20~11:00)

1A2-13 ATP Special Invited Lecture Development of Perovskite Solar Cells in Ricoh (RICOH Company, Ltd.) ○HORIUCHI, Tamotsu (11:00~11:40)

(11 : 40~11 : 50)

1A2-17 ATP Incubation Time (11:40~11:50)

Sunday, March 22, PM

Chair: MATSUO, Yutaka (13 : 00~14 : 30)

1A2-25 ATP Special Invited Lecture Toward Application of Perovskite Solar Cells to Space (JAXA) ○IMAIZUMI, Mitsuru; MALINKIEWICZ, Olga; OHSHIMA, Takeshi (13:00~13:40)

1A2-29 ATP Keynote Lecture State-of-the-art technology of organometal halide perovskite solar cells (Grad. Sch. Arts and Sci., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○SEGAWA, Hiroshi (13:40~14:30)

(14 : 30~14 : 40)

1A2-34 ATP Incubation Time (14:30~14:40)

Chair: IKEDA, Sigeru (14 : 40~15 : 50)

1A2-35 ATP Special Invited Lecture Our Approaches for the Revealed Issues in Practical Application of Perovskite Solar Cells (ICR, Kyoto Univ.) ○WAKAMIYA, Atsushi (14:40~15:20)

1A2-39 ATP Invited Lecture Highly sensitive photodetection by organic-inorganic perovskites hybridized with a metal complex (Grad. Sch. Eng., Toin Univ. of Yokohama) ○ISHII, Ayumi; MIYASAKA, Tsutomu (15:20~15:50)

(15 : 50~16 : 00)

1A2-42 ATP Incubation Time (15:50~16:00)

Chair: MIYASAKA, Tsutomu (16 : 00~17 : 20)

1A2-43 ATP Special Invited Lecture Phase Stable and Less-Defect Perovskite Quantum Dots: Optical Property, Photoexcited Carrier Dynamics, and Application to Solar Cells (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SHEN, Qing (16:00~16:40)

1A2-47# ATP Special Invited Lecture Saule's road Towards Commercialization of Inkjet printed Lightweight, Flexible and Durable Perovskite Solar Cell Modules (Saule Technologies) ○SENL, Oz (16:40~17:20)

(17 : 20~17 : 30)

1A2-51 Opening Remarks / Closing Remarks Closing remarks (Fac. Bio. Eng., Toin Univ. of Yokohama) ○MIYASAKA, Tsutomu (17:20~17:30)

Monday, March 23, AM

R&D for Realizing Society with energy storage

(10 : 30~10 : 40)

2A2-10 Opening Remarks / Closing Remarks opening remarks (Grad. Fac. Eng., Yokohama Natl. Univ.) ○YABUUCHI, Naoaki (10:30~10:40)

Chair: HOSONO, Eiji (10 : 40~11 : 50)

2A2-11 ATP Special Invited Lecture Oxygen redox as a key for large capacity cathodes of advanced batteries (Grad. Sch. Eng., The Univ. of Tokyo) ○OKUBO, Masashi; YAMADA, Atsuo (10:40~11:20)

2A2-15 ATP Invited Lecture Degradation Analysis of Lithium-ion Batteries for Electric Vehicles (JARI) ○ANDO, Keisuke; MATSUDA, Tomoyuki; MYOJIN, Masao; IMAMURA, Daichi (11:20~11:50)

(11 : 50~12 : 00)

2A2-18 ATP Incubation Time (11:50~12:00)

Monday, March 23, PM

Chair: YABUUCHI, Naoaki (13 : 30~14 : 50)

2A2-28 ATP Keynote Lecture Elements strategy for post lithium-ion batteries (IMCE, Kyushu Univ.; ESICB, Kyoto Univ.) ○OKADA, Shigetou; SAKAMOTO, Ryo; BAI, Junwen; NAKAMOTO, Kosuke (13:30~14:20)

2A2-33 ATP Invited Lecture Disordered Rocksalt Type Li-Rich Manganese Oxyfluoride as High-Capacity Cathode Material for Rechargeable Lithium Ion Batteries (Panasonic Corp.) ○NATSUI, Ryuichi; NAKURA, Kensuke; OHUCHI, Satoru; IKEUCHI, Issei (14:20~14:50)

(14 : 50~15 : 00)

2A2-36 ATP Incubation Time (14:50~15:00)

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

2A2-37 ATP Special Invited Lecture Liquid electrolyte materials search with first-principles simulation and materials informatics techniques (CMI², NIMS) ○SODEYAMA, Keitarou (15:00~15:40)

2A2-41 ATP Invited Lecture Introduction of advanced analysis technology for battery (NISSAN ARC, LTD.) ○ITO, Takanori (15:40~16:10)

2A2-44 ATP Special Invited Lecture New insights into less-noble metal electrode-electrolyte interphase (Grad. Sch. Eng., Kobe Univ.) ○MATSUI, Masaki (16:10~16:50)

(16:50~17:00)

2A2-48 Opening Remarks / Closing Remarks closing remarks
(Grad. Fac. Eng., Yokohama Natl. Univ.) ○YABUUCHI, Naoaki
(16:50~17:00)

Tuesday, March 24, AM

Future and issues for energy harvesting

(10:20~10:30)

3A2-09 Opening Remarks / Closing Remarks Introductory
(iECO, AIST) ○YAMAMOTO, Atsushi (10:20~10:30)

Chair: YAMAMOTO, Atsushi (10:30~11:20)

3A2-10 ATP Keynote Lecture Future of energy harvesting opened up by chemistry from the viewpoint of mechanical engineers (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Yuji; KIM, Seonwoo; SUZUKI, Kuniko; KITTIPAISALSILPA, Kasidis; MIYOSHI, Tomoya (10:30~11:20)

Chair: HOSONO, Eiji (11:20~12:00)

3A2-15 ATP Special Invited Lecture Market Trends of Energy Harvesting Technologies (NTT Data Institute of Management Consulting, Inc.) ○TAKEUCHI, Keiji (11:20~12:00)

(12:00~12:10)

3A2-19 ATP Incubation Time (12:00~12:10)

Tuesday, March 24, PM

Chair: YAMAMOTO, Atsushi (13:30~14:20)

3A2-28 ATP Keynote Lecture Development of novel principle high performance thermoelectric materials and devices for IoT energy harvesting (MANA, NIMS) ○MORI, Takao (13:30~14:20)

Chair: HOSONO, Eiji (14:20~15:00)

3A2-33 ATP Special Invited Lecture Material and device development to accelerate the spread of thermoelectric technology (GREEN NIMS; Fac. Sci. Eng., Waseda Univ.; Grad. Sch. Eng., The Univ. of Tokyo) ○GOTO, Masahiro; IWASE, Eiji; SHIOMI Junichiro (14:20~15:00)

(15:00~15:10)

3A2-37 ATP Incubation Time (15:00~15:10)

Chair: YAMAMOTO, Atsushi (15:10~16:30)

3A2-38 ATP Special Invited Lecture Chalcogenide-based thermoelectric materials and modules for high-performance power generation (iECO, AIST) ○OHTA, Michihiro (15:10~15:50)

3A2-42 ATP Special Invited Lecture A Novel Electric Power Generation by Controlling Band Structure (Grad. Sch. Eng., Kyushu Univ.) ○MUNETOH, Shinji (15:50~16:30)

(16:30~16:40)

3A2-46 Opening Remarks / Closing Remarks Closing remark (iECO, AIST) ○YAMAMOTO, Atsushi (16:30~16:40)

Seeds co-creation for innovation - honest talk for transformation of academia-industry collaboration -

Wednesday, March 25, AM

(9:00~9:10)

4A2-01 Opening Remarks / Closing Remarks Explanation of the objective from the organizer (Mitsubishi Chemical Holdings Corporation) ○URATA, Hisao (09:00~09:10)

Chair: ABE, Ryu (9:10~10:30)

4A2-02 ATP Special Invited Lecture Outline of JST's activities for the promotion of 'Science in/for Society' (JST) ○ARAKAWA, Atsushi (09:10~09:50)

4A2-06 ATP Special Invited Lecture Open Innovation and Dialogue Model ○KAWAKAMI, Tomoko (09:50~10:30)

Chair: TSUJI, Ryotaro (10:30~11:50)

4A2-10 ATP Special Invited Lecture Open Innovation Activities in Pharmaceutical Industries (Daiichi Sankyo Co., LTD.) ○FUJISAWA, Michio; KANAZAWA, Yoshito; ENDO, Atsushi (10:30~11:10)

4A2-14 ATP Special Invited Lecture From heretical effort to cutting edge -From Macrocyclic peptides to NeoBiologics- (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (11:10~11:50)

(11:50~12:20)

4A2-18 Concluding discussion (Mitsubishi Chemical Holdings Corporation) ○URATA, Hisao (11:50~12:20)

Room E1

Lecture Hall Bldg. K401

Material and Design Technology for supporting Future Society

Sunday, March 22, AM

Materials of the SDGs Era: Cellulose Nanofibers

(9:30~9:40)

E1-04 Opening Remarks / Closing Remarks The role of cellulose nano-fiber for achievement of the sustainable development goals (FFPRI) ○HAYASHI, Noriko (09:30~09:40)

Chair: ERIYAMA, Yuichi (9:40~11:50)

E1-05 ATP Keynote Lecture Characteristic evaluation for the effective use of the woody biomass for cellulose nano-fiber (FFPRI) ○HAYASHI, Noriko (09:40~10:30)

E1-10 ATP Special Invited Lecture Molecular mechanisms of CNF biosynthesis: from the perspective of biology (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Bio. Sci., NAIST) ○OHTANI, Misato; DEMURA, Taku (10:30~11:10)

E1-14 ATP Special Invited Lecture Life cycle thinking in nano-cellulose production (IFI, The Univ. of Tokyo) ○KIKUCHI, Yasunori; KIKUCHI, Dai; KANEMATSU, Yuichiro (11:10~11:50)

(11:50~12:00)

E1-18 ATP Incubation Time (11:50~12:00)

Sunday, March 22, PM

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

E1-25 ATP Keynote Lecture Taking nanocellulose to the next stage -from strength to function- (RISC, AIST) ○ENDO, Takashi (13:00~13:50)

E1-30 ATP Special Invited Lecture CNF/polymer composite materials synthesized by Pickering emulsion templating (Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○FUJISAWA, Shuji (13:50~14:30)

E1-34 ATP Special Invited Lecture Development of high-functional nonwoven air filters containing cellulose nanofibers (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MATSUMOTO, Hidetoshi (14:30~15:10)

(15:10~15:20)

E1-38 ATP Incubation Time (15:10~15:20)

Chair: KUBO, Nobuo (15:20~17:00)

E1-39 ATP Special Invited Lecture Characteristics and applications of cellulose nanofibers from Japanese orange peels (PIICE, Ehime Univ.) ○HIDENO, Akihiro (15:20~16:00)

E1-43 ATP Invited Lecture Development of cellulose fiber resin for home appliance application. (Panasonic Corp.) ○NAGINO, Toshifumi; HAMABE, Masashi; IMANISHI, Masayoshi (16:00~16:30)

E1-46 ATP Invited Lecture Development of CNF sheet material "ELLEX-M" (Daio Paper Corp.) ○OKAWA, Junya (16:30~17:00)

(17:00~17:10)

E1-49 Opening Remarks / Closing Remarks Closing (KONICA MINOLTA, INC) ○KUBO, Nobuo (17:00~17:10)

Monday, March 23, AM

Advances in Informatics-Driven Synthetic Chemistry (I Basic Theory and Applications)

(9:30~9:40)

E2-04 Opening Remarks / Closing Remarks Introduction (IRC3, AIST) ○SATO, Kazuhiko (09:30~09:40)

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

E2-05 ATP Keynote Lecture Introduction to Materials Informatics (ROIS) ○YOSHIDA, Ryo (09:40~10:30)

(10:30~10:40)

E2-10 ATP Incubation Time (10:30~10:40)

Chair: TAKAYA, Hikaru (10:50~11:30)

E2-12 ATP Special Invited Lecture Synthesis of Metal-Organic Frameworks Assisted by Machine Learning (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TANAKA, Daisuke (10:50~11:30)

Chair: MATSUMOTO, Kazuhiro (11 : 30~12 : 10)

- 2E1-16 ATP Special Invited Lecture** Computational materials design based on machine learning (RCACI, JAIST) ○HONGO, Kenta (11:30~12:10)

Monday, March 23, PM

Chair: MATSUMOTO, Kazuhiro (13 : 00~13 : 40)

- 2E1-25 ATP Special Invited Lecture** Machine Learning-Based Rapid Optimization of Flow Reaction Conditions by Synthetic Organic Chemist (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MASE, Nobuyuki; TAKEDA, Kazuhiro (13:00~13:40)

(13 : 40~13 : 50)

- 2E1-29 ATP Incubation Time** (13:40~13:50)

Chair: IYAMA, Hironobu (13 : 50~14 : 40)

- 2E1-30 ATP Keynote Lecture** Interplay between machine learning and theoretical chemistry: Development of density functional (Fac. Sci. Eng., Waseda Univ.) ○NAKAI, Hiromi (13:50~14:40)

(14 : 40~14 : 50)

- 2E1-35 ATP Incubation Time** (14:40~14:50)

Chair: IYAMA, Hironobu (15 : 00~15 : 40)

- 2E1-37 ATP Special Invited Lecture** Transition state search by global reaction route mapping and effective catalyst design by machine learning (IRI, NAIST) ○HATANAKA, Miho (15:00~15:40)

(15 : 40~15 : 50)

- 2E1-41 ATP Incubation Time** (15:40~15:50)

Chair: IYAMA, Hironobu (15 : 50~16 : 30)

- 2E1-42 ATP Special Invited Lecture** New Analysis Method of X-ray Absorption Spectra by Machine Learning (Grad. Sch. Eng., Osaka Pref. Univ.) ○IKENO, Hidekazu (15:50~16:30)

(16 : 30~16 : 40)

- 2E1-46 Opening Remarks / Closing Remarks** Closing remarks (IRC3, AIST) ○SATO, Kazuhiko (16:30~16:40)

Tuesday, March 24, AM

Advances in Informatics-Driven Synthetic Chemistry (II Functional Materials)

(9 : 30 ~9 : 40)

- 3E1-04 Opening Remarks / Closing Remarks** Opening Remarks (RISM, Shinshu Univ.; GREEN, NIMS) ○KOYAMA, Michihisa (09:30~09:40)

Chair: ZETTSU, Nobuyuki (9 : 40 ~10 : 20)

- 3E1-05 ATP Special Invited Lecture** Physics-centered informatics for the real-system alloy nanoparticles (GREEN, NIMS; RISM, Shinshu Univ.) ○KOYAMA, Michihisa (09:40~10:20)

(10 : 20~10 : 30)

- 3E1-09 ATP Incubation Time** (10:20~10:30)

Chair: ZETTSU, Nobuyuki (10 : 30~11 : 10)

- 3E1-10 ATP Special Invited Lecture** Development of diagnosis technology for current distribution of ultra high energy density battery (CMDs, Kobe Univ.) ○KIMURA, Kenjiro; MATSUDA, Seiju; SUZUKI, Shogo; YABUMOTO, Kai; MIMA, Yuki; KIMURA, Noriaki (10:30~11:10)

(11 : 10~11 : 20)

- 3E1-14 ATP Incubation Time** (11:10~11:20)

Tuesday, March 24, PM

Chair: HARA, Kenji (13 : 00~13 : 30)

- 3E1-25 ATP Invited Lecture** The First Machine-Generated Research Book (Springer Japan K.K.) ○KOIZUMI, Shin'ichi (13:00~13:30)

(13 : 30~13 : 40)

- 3E1-28 ATP Incubation Time** (13:30~13:40)

Chair: HARA, Kenji (13 : 40~14 : 30)

- 3E1-29 ATP Keynote Lecture** Strategy for polymer materials design considering with process (Grad. Sch. Eng., The Univ. of Tokyo) ○FUNATSU, Kimito (13:40~14:30)

(14 : 30~14 : 40)

- 3E1-34 ATP Incubation Time** (14:30~14:40)

Chair: HARA, Kenji (14 : 40~15 : 20)

- 3E1-35 ATP Special Invited Lecture** Systematic prediction of fundamental properties of semiconductors and data-driven materials exploration (IIR, Tokyo Tech.) ○OBA, Fumiyasu (14:40~15:20)

(15 : 20~15 : 30)

- 3E1-39 ATP Incubation Time** (15:20~15:30)

Chair: TANIGUCHI, Tadashi (15 : 30~16 : 10)

- 3E1-40 ATP Special Invited Lecture** Consortium activities for fractography by using deep learning (Kobe Material Testing Laboratory Co., Ltd.) ○TSURUI, Nobuhito; YAMAGIWA, Kenta; SHIBUTANI, Tadashi; SAKAI, Shinsuke (15:30~16:10)

(16 : 10~16 : 20)

- 3E1-44 ATP Incubation Time** (16:10~16:20)

Chair: TANIGUCHI, Tadashi (16 : 20~17 : 00)

- 3E1-45 ATP Special Invited Lecture** Materials discovery by using Materials Informatics technique in all solid state battery (Toyota Motor Corp.) ○YAMASAKI, Hisatsugu (16:20~17:00)

(17 : 00~17 : 10)

- 3E1-49 Opening Remarks / Closing Remarks** Closing Remarks (Sch. Eng., Tokyo Univ. of Tech.) ○HARA, Kenji (17:00~17:10)

Wednesday, March 25, AM

Devices and Materials for Society 5.0

(9 : 10 ~9 : 20)

- 4E1-02 Opening Remarks / Closing Remarks** opening remarks (KONICA MINOLTA, INC) ○KASHIWAGI, Tsuneo (09:10~09:20)

Chair: IINO, Hiroaki (9 : 20 ~10 : 40)

- 4E1-03 ATP Special Invited Lecture** Development of Magnetic Fluid Hand for Next-generation Industrial Robots (Grad. Sch. Eng., KIT) ○NISHIDA, Takeshi (09:20~10:00)

- 4E1-07 ATP Special Invited Lecture** Electrostatic Film Actuators for Novel Information Displays (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAMOTO, Akio (10:00~10:40)

(10 : 40~10 : 50)

- 4E1-11 ATP Incubation Time** (10:40~10:50)

Chair: IINO, Hiroaki (10 : 50~12 : 00)

- 4E1-12 ATP Special Invited Lecture** Device and material design for conviviality -Wireless power transmission and soft robotics- (Grad. Sch. Eng., The Univ. of Tokyo) ○KAWAHARA, Yoshihiro (10:50~11:30)

- 4E1-16 ATP Invited Lecture** About METI's policies to realize Society 5.0 (METI) ○TOHYAMA, Tsuyoshi (11:30~12:00)

Wednesday, March 25, PM

Chair: KASHIWAGI, Tsuneo (13 : 00~14 : 50)

- 4E1-25 ATP Special Invited Lecture** Human information measurement by wearable devices (Fac. Human Life Env., Nara Women's Univ.) ○SAIWAKI, Naoki (13:00~13:40)

- 4E1-29 ATP Special Invited Lecture** Intelligent Group Behavior by Unintelligent Individuals: -Fusional study of experiments and theories for exquisite task allocation in ant colonies- (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○NISHIMORI, Hiraku (13:40~14:20)

- 4E1-33 ATP Invited Lecture** The Challenge of Kashiwa-no-ha Smart City (MITSUI FUDOSAN) ○TANITSU, Kuniaki (14:20~14:50)

(14 : 50~15 : 00)

- 4E1-36 ATP Incubation Time** (14:50~15:00)

Chair: KOGA, Ryo (15 : 00~16 : 30)

- 4E1-37 ATP Invited Lecture** Secure Society: Knowing and Connecting Through Technology (SECOM) ○MESAKI, Yuji (15:00~15:30)

- 4E1-40[#] ATP Invited Lecture** Next-Generation Smart Apparel e-skin - New System for Creating New Business from R&D - (Xenoma) ○AMIMORI, Ichiro (15:30~16:00)

- 4E1-43 ATP Invited Lecture** Smart Impedance: introduction of technologies invented by POSH WELLNESS LABORATORY Inc. (POSH WELLNESS LABORATORY Inc.; FLEC, AIST) ○NEBUYA, Satoru (16:00~16:30)

(16 : 30~16 : 40)

- 4E1-46 Opening Remarks / Closing Remarks** opening remarks (KONICA MINOLTA, INC) ○KASHIWAGI, Tsuneo (16:30~16:40)

Room E5

Lecture Hall Bldg. K405

Innovative technologies for Healthcare in the Reiwa era

Sunday, March 22, AM

Advanced materials for future medical devices and lifescience

(9:30~9:40)

1E5-04 Opening Remarks / Closing Remarks Opening Remarks (IMCE, Kyushu Univ.) ○TANAKA, Masaru (09:30~09:40)

Chair: NAGASAKI, Takeshi (9:40~10:50)

1E5-05 ATP Special Invited Lecture Chemically-defined culture enables massive expansion of functional hematopoietic stem cells (IMS, The Univ. of Tokyo) ○YAMAZAKI, Satoshi (09:40~10:20)

1E5-09 ATP Invited Lecture Development and Practical Realization of Blood Compatible Material (TOYOBO CO., LTD.) ○KAJII, Fumihiko (10:20~10:50)

(10:50~11:00)

1E5-12 ATP Incubation Time (10:50~11:00)

Chair: TANAKA, Masaru (11:00~11:50)

1E5-13 ATP Keynote Lecture Transdermal vaccine which brings medical innovation and ionic liquids as novel drug materials (Grad. Sch. Eng., Kyushu Univ.) ○GOTO, Masahiro (11:00~11:50)

Sunday, March 22, PM

Chair: OHASHI, Hidekazu (13:00~15:00)

1E5-25 ATP Special Invited Lecture Functional adhesive materials developed based on biomimetics (Fac. Eng., OIT) ○FUJII, Syuji (13:00~13:40)

1E5-29 ATP Special Invited Lecture Polysaccharide/DNA Complexes to Deliver Therapeutic Oligonucleotides:bench-to-bedside (Fac. Env. Eng., The Univ. of Kitakyushu) ○SAKURAI, Kazuo (13:40~14:20)

1E5-33 ATP Special Invited Lecture Polymer Nanosheets as 2D Biomaterials -Design, Characterization, and Biomedical Applications- (Sch. Eng., Tokai Univ.) ○OKAMURA, Yosuke (14:20~15:00)

(15:00~15:10)

1E5-37 ATP Incubation Time (15:00~15:10)

Chair: OHSUMI, Koji (15:10~16:40)

1E5-38 ATP Invited Lecture Development of functional polymer materials for biocompatibility (FUJIFILM Corp.) ○SUGASAKI, Atsushi (15:10~15:40)

1E5-41 ATP Invited Lecture Utilize unique chemical properties for research and practical application of dental adhesive materials. (Sun Medical Co., Ltd.) ○YAMAMOTO, Takashi (15:40~16:10)

1E5-44 ATP Invited Lecture New developments in biocompatible polymers (Nippon Shokubai Co., Ltd.) ○NAKATA, Yoshitomo (16:10~16:40)

(16:40~16:50)

1E5-47 Opening Remarks / Closing Remarks Closing Remarks (IMCE, Kyushu Univ.) ○TANAKA, Masaru (16:40~16:50)

Monday, March 23, PM

Diagnostic and Preventive Chemistry for Future Healthcare

(13:00~13:10)

2E5-25 Opening Remarks / Closing Remarks Opening Remarks (Grad. Sch. Sci., The Univ. of Tokyo) ○OZAWA, Takeaki (13:00~13:10)

Chair: OZAWA, Takeaki (13:10~15:30)

2E5-26 ATP Keynote Lecture Analysis of bacterial single-cell genomics using microfluidic devices and its applications (Fac. Sci. Eng., Waseda Univ.) ○TAKEYAMA, Haruko; HOSOKAWA, Masahito; NISHIKAWA, Yohei; KOGAWA, Masato (13:10~14:00)

2E5-31 ATP Special Invited Lecture Gut environment-based stratified healthcare creates a new field of preventive medicine (IAB, Keio Univ.; KISTEC; Univ. of Tsukuba; Metabologenomics, Inc.) ○FUKUDA, Shinji (14:00~14:40)

2E5-35 ATP Keynote Lecture Development of liquid biopsy for detection of presymptomatic diseases (IMS, Tokyo Med. Univ.) ○OCHIYA,

Takahiro (14:40~15:30)

(15:30~15:40)

2E5-40 ATP Incubation Time (15:30~15:40)

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

2E5-41 ATP Invited Lecture Early life gut microbiota development and the property of infant predominant bifidobacteria (Yakult Central Institute) ○MATSUKI, Takahiro (15:40~16:10)

2E5-44 ATP Invited Lecture Development of functional food to prevent atherosclerosis using fecal metablomics (Kyodo Milk Industry Co. Ltd.) ○MATSUMOTO, Mitsuharu (16:10~16:40)

Tuesday, March 24, PM

Bio-ventures to establish a new era of modalities

(13:00~13:10)

3E5-25 Opening Remarks / Closing Remarks Organizer's statement (Grad. Sch. Sci., The Univ. of Tokyo) ○SUGA, Hiroaki (13:00~13:10)

Chair: OHNO, Osamu (13:10~14:30)

3E5-26 ATP Special Invited Lecture SanBio: Becoming the Global Leader in Regenerative Medicine (SanBio) ○MORI, Keita (13:10~13:50)

3E5-30 ATP Special Invited Lecture Develop cell therapy treatments toward the practical application ○TANI, Masaharu (13:50~14:30)

(14:30~14:40)

3E5-34 ATP Incubation Time (14:30~14:40)

Chair: YUNOMURA, Shuichi (14:40~16:00)

3E5-35 ATP Special Invited Lecture NapaJen's solution to create new oligonucleotide drugs (NapaJen Pharma, Inc.) ○ARIMA, Kenji (14:40~15:20)

3E5-39 ATP Special Invited Lecture An innovative new modality provided by MiraBiologics Inc. (MiraBiologics Inc.) ○KATO, Masuhiro (15:20~16:00)

(16:00~16:10)

3E5-43 ATP Incubation Time (16:00~16:10)

Chair: YUNOMURA, Shuichi (16:10~16:50)

3E5-44 ATP Special Invited Lecture Challenges of Japanese biotechs - From a global perspective of industry, government and academia - (Deloitte Tohmatsu Consulting) ○MASUI, Keita (16:10~16:50)

(16:50~17:00)

3E5-48 ATP Incubation Time (16:50~17:00)

Room P

Morito Memorial Gymnasium Arena

Sunday, March 22, PM

(15:00~16:30)

Energy

1PC-001[#] Extended Viologen Derivatives as Anode Materials for Molecular Ion Battery (RIECEN, AIST) ○KATO, Minami; SANO, Hikaru; YAO, Masaru

1PC-002[#] Crystallographic Change of 2,5-Dimethoxy-1,4-benzoquinone as Active Material during Charge and Discharge (RIECEN, AIST) ○SANO, Hikaru; KATO, Minami; TAKEICHI, Nobuhiko; YAO, Masaru; SHIKANO, Masahiro; KIYOBAYASHI, Tetsu; KUWABATA, Susumu; MATSUMOTO, Hajime

1PC-003[#] Development of supramolecular photocatalysts by self-assembly of water-soluble organic dyes (Grad. Sch. Eng., Osaka Univ.) ○SHIGEMITSU, Hajime; TANI, Yohei; TAMEMOTO, Tomoe; KIDA, Toshiyuki

1PC-004[#] Titanium Boride (TiB₂) based exfoliated 2D-nanosheets as an active anodic material for energy storage in Li-ion Battery (Sch. Mat. Sci., JAIST) ○VARMA, Akash; BADAM, Rajashekar; JASUJA, Kabeer; MATSUMI, Noriyoshi

1PC-005 Thermal Analysis of Cold Crystallization in Heat Storage Using Small Pigment and Dye Molecules (NMIJ, AIST) ○HONDA, Akinori; MIYAMURA, Kazuo; ITOH, Hiroshi

1PC-006[#] Voltage-Applied In-Situ Analysis of Metal Current Collector / Na₃Zr₂Si₂PO₁₂ Interface (Grad. Sch. Eng., Nagoya Univ.)

- MITSUKUCHI, Naohiro; YAMAMOTO, Takayuki; SUZUKI, Yasuhiro; YASUNO, Satoshi; MOTOYAMA, Munekazu; IRIYAMA, Yasutoshi
- 1PC-007[#]** Development of Next-Generation Lithium-Sulfur Battery with Long Life and High Energy Density (ADEKA Corp.) ○KAKIAGE, Kenji; KIMIJIMA, Kouichi
- 1PC-008[#]** Fabrication of p-type inorganic semiconductor thin film using solution process (Fac. Sci., Yamagata Univ.) ○ISHIZAKI, Manabu; KOYA, Naoki; GOTOH, Yoshitomo; SATOH, Daiki; KURIHARA, Masato
- 1PC-009** Designing of SrTiO₃:Ir,Sb photocatalyst with response to visible light up to 800 nm aiming at overall water splitting under visible light irradiation (Fac. Sci., TUS) ○KAIYA, Kyohei; YOSHINO, Shunya; YAMAGUCHI, Yuichi; KUDO, Akihiko
- 1PC-010[#]** Fabrication and Thermoelectric Properties of a Solution-Processed Film of π -Conjugated Nickel Complex with Core-Shell Particles (Grad. Sch. Eng., OIT; Fac. Eng., OIT; PRESTO, JST) ○YAMADA, Yuto; OYAMA, Keigo; HIRAI, Tomoyasu; FUJII, Syuji; MURAOKA, Masahiro; MURATA, Michihisa
- 1PC-011** Reaction distribution analysis of a positive electrode of Lead acid battery by the color imaging method (Hitachi Chemical Company, Ltd.) ○KODATO, Katsunori; HIRANO, Hiroki; HARADA, Motoko; SUMIYA, Keiji
- 1PC-012** Precise Separation and Optical Properties of Cadmium Chalcogenide Clusters (ICR, Kyoto Univ.) ○TAKAHATA, Ryo; SARUYA, Masaki; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 1PC-013[#]** First-Principles Study of the Electrochemical Sodiation of Rutile-Type Vanadium Dioxide (Centre EMT, Institut National de la Recherche Scientifique) KOCH, Daniel; ○MANZHOS, Sergei
- 1PC-014** Single wall carbon nano tubes for Solid-state battery and improvement of the performance (Kusumoto Chemicals, Ltd.) ○SHIMIZU, Daisuke
- 1PC-015** Electrochemical evaluation of the layered MnO₂ intercalated with metal complexes and ionic lipid (Coll. Sci. Eng., Kanto Gakuin Univ.) ○TOMONO, Kazuaki; OU, Itsuou; ITAKURA, Makoto; SUMIMOTO, Michinori
- 1PC-016** Photoelectrochemical water splitting using WO₃ electrodes with metal ions treatment (Hiroo Gakuen High School) ○YASUDA, Nanami
- 1PC-017** Development of Functionalized Membrane Electrode Assembly Components by Using Chemical Methods (KRI, Inc.) ○ASAKURA, Noriaki; KAITO, Takamasa; JYOZUKA, Tetsuya; NOINE, Keiji; SEKI, Shota; MATSUDA, Toshihiko
- (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○SONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa
- 1PC-031[#]** Sustainable Organic Synthesis with Sodium Dispersion: Cross-Coupling Reaction and Birch Reduction (RIKEN CSRS) ○ASAKO, Sobi; TAKAHASHI, Ikko; NAKAJIMA, Hirotaka; TSUBOUCHI, Gen; KATAYAMA, Yumiko; MURAKAMI, Yoshiaki; ILIES, Laurean; TAKAI, Kazuhiko
- 1PC-032** Optimization of cocatalyst for water splitting under visible light irradiation using SrTiO₃:Rh,Sb photocatalyst (Fac. Sci., TUS) ○KIKUCHI, Erika; YOSHINO, Shunya; MASHIYAMA, Takahiro; YAMAGUCHI, Yuichi; KATO, Hideki; KUDO, Akihiko
- 1PC-033** Synthesis and Catalysis of a Metal Oxide Molecule with an Active Site Structure of Haloperoxidase (Inst. Sci. Eng., Kanazawa Univ.) ○KIKUKAWA, Yuji; KURIMOTO, Yushi; HAYASHI, Yoshihito
- 1PC-034[#]** Selective Adsorption of Trace Amount of Sulfur Containing Molecules Using Nanoporous Metal Complexes with Open Metal Sites (Grad. Sch. Eng., Nagoya Univ.; Panasonic Corp.) ○YONEZU, Akira; MORITA, Masashi; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 1PC-035** Dehydrative Amination of Phenols Using Integrated Continuous-flow Reactors (IRC3, AIST) ○ICHTSUKA, Tomohiro; TAKAHASHI, Ikko; KOURUMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu
- 1PC-036** Elemental Composition Control of Gold-Titania Photocatalysts by Mineralization Using Two Artificial Peptides and DNAs (FIRST, Konan Univ.) ○OZAKI, Makoto; TSURUOKA, Takaaki; TOMIZAKI, Kin-ya; USUI, Kenji
- 1PC-037[#]** Bubble Size Dependence of Contact Angle of CO₂/Brine/Mineral Systems (GSJ, AIST) ○SHIGA, Masashige; AICHI, Masatsugu; SORAI, Masao; HONDA, Hiromi
- 1PC-038** Z-Scheme Systems for Water Splitting under Visible Light Using H₂-Evolving Metal Sulfide Photocatalyst, O₂-Evolving Photocatalysts With Response to Long Wavelength Light, and RGO (Sch. Sci. Eng., Meiji Univ.) ○MORIYA, Misa; AOYAGI, Ryosuke; MISEKI, Yugo; KATO, Hideki; SAYAMA, Kazuhiro; KUDO, Akihiko; IWASE, Akihiko
- 1PC-039** Examination of fine bubble cleaning technology for effluent regulations (Tokyo Metropolitan Ind. Tech. Res. Inst.) ○MORIKUBO, Satoshi; NISHIDA, Aoi; KOSAKA, Yukio; ENOMOTO, Daisuke; TAKUMA, Yasuhiko
- 1PC-040** Evaluation of oils on the metal surface after cleaning by fine bubbles (Eng. Valid. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.) ○NISHIDA, Aoi; MORIKUBO, Satoshi; TAKUMA, Yasuhiko
- 1PC-041[#]** Donor-acceptor Type Conjugated Porous Polymers for Visible-light-driven Photocatalytic Hydrogen Evolution (Sch. of Chem. Sci. and Eng., Tongji Univ. of China.) ○YU, Jie; ZHANG, Chi
- 1PC-042[#]** Chiral Phosphoric Acid-Catalyzed Enantioselective Direct Arylation of Iminoquinones: A Case Study of the Model Selectivity (Fac. of Chem., Northeast East Normal Univ.) ○YUAN, Haiyan
- 1PC-043[#]** A stable multifunctional cadmium-organic framework based on 2D stacked layers: effective gas adsorption, and excellent detection of Cr³⁺, CrO₄²⁻, and Cr₂O₇²⁻ (Fac. of Chem., NENU) ○ZHANG, Xiaoying
- 1PC-044** Adsorption properties of boron on hydrogels of gluconamide derivatives (Nagoya Municipal Industrial Research Institute) ○MATSUMURA, Daiki; NAKANO, Kazunori
- 1PC-045[#]** Porous Organic Polymers Based on Multi Carbonyl Group via Zincke Reaction (scut, China) ○TANG, Xiaohui; GU, Cheng
- 1PC-046** "Making general reactions continuous-flow" using microscale CSTR (RigakuKobo, LLC; MAK Engineering Co.; Ind. Res. Center of Shiga Pref.) ○NAKAYAMA, Nobuyuki; KOTANI, Isao; KOTANI, Kentaro; SHIRAI, Nobuaki; NAKAI, Naohiro
- 1PC-047** Investigation on the quick extraction of hexavalent chromium from chromium plated products with blind holes (Tokyo Metropolitan Ind. Tech. Res. Inst.) ○ANDO, Eri; ONOZAWA, Akiyoshi; KUWAHARA, Satoshi; NAKAZAWA, Ryoji
- 1PC-048[#]** Synthesis of Dicarboxylic Acids by Iridium-Catalyzed Dehydrogenation of Aqueous Solution of Diols (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○FUJITA, Ken-ichi; TOYOOKA, Genki
- 1PC-049** Catalytic Performance of Silyl Group-Substituted *N*-Heterocyclic Carbene Complexes (IRC3, AIST) ○SEO, Yuto; MIZUSAKI, Tomoteru; TAKAGI, Yukio; HATAKEYAMA, Kohei; LEE, Vladimir Ya.; CHOE, Yoong-kee; MATSUMOTO, Kazuhiro; CHOI, Jun-chul; FUKAYA, Norihisa
- 1PC-050** Concentration of trace components using freezing and melting process of eutectics of salt and water -Magnetic field effect- (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○ARAI, Masaru; NISHIMOTO, Yuko
- 1PC-051** Study on using of painting waste as oxide (Tokyo Metropolitan Ind. Tech. Res. Inst.) ○TAKUMA, Yasuhiko; ENOMOTO, Daisuke; MORIKUBO, Satoshi; KOSAKA, Yukio
- 1PC-052** Test Method for Air-purification Performance of Photocatalytic Filter Materials -Decomposition of Various Contaminants and Mock-up Test for Practical Air-cleaner - (KISTEC; Seiva Environmental Engineering Co., Ltd.) ○OCHIAI, Tsuyoshi; UCHIDA, Yoshitsugu; KURIYANO, Nobuki; AOKI, Daisuke; AKUTSU, Yasuhisa
- 1PC-053** Experimental investigation of CO₂ catalytic conversion under conditions of CO₂ geological storage for the development of CCS technology (GSJ, AIST) ○FUJII, Takashi; ASAHINA, Kenta; NISHIOKA, Masateru
- 1PC-054** Purification of actual environmental water by photocatalysis

Resources/Environment/Green sustainable chemistry

- 1PC-018[#]** Enhanced electrochemical CO₂ reduction selectivity by biomimetic surface based self-assembled polymer microparticles to electrode (Toyota Central R&D Labs., Inc.) ○SAKAMOTO, Naonari; ARAI, Takeo
- 1PC-019[#]** Extremely Efficient Synthesis of Acrylates by Catalytic Transesterification (Grad. Sch. Eng., Nagoya Univ.) ○NG, Jie Qi; ARIMA, Hiro; MOCHIZUKI, Takuya; TOH, Kohei; HATANO, Manabu; ISHIIHARA, Kazuaki
- 1PC-020[#]** Permanganate-Induced Complete Decomposition of Fluororubbers in Low temperature Subcritical water (Grad. Sch. Fac. Sci., Kanagawa Univ.; Institut Charles Gerhardt, Montpellier, CNRS) ○HONMA, Ryo; HORI, Hisao; HORIIKE, Naoki; REIS DA CUNHA, Fernando; AMEDURI, Bruno
- 1PC-021[#]** Towards Sustainable Ester Reductions (Univ. of Strathclyde) ○SHAALAN, Youssef; BOULTON, Lee; JAMIESON, Craig
- 1PC-022[#]** Direct One-Step Synthesis of Fully Bio-based Resin from Polysaccharide and Natural Aldehyde (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HIROSE, Daisuke; SAMUEL, Kusuma; INA, Daiki; WADA, Naoki; TAKAHASHI, Kenji
- 1PC-023[#]** Synthesis of platinum alloy sub-nanoparticles using metal inclusion complexes as precursors (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○AKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 1PC-024** Finely controlled synthesis and functionalization of non-noble metal clusters (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○MORIAI, Tatsuya; TSUKAMOTO, Takamasa; KAMBE, Tetsuya; YAMAMOTO, Kimihisa; IMAOKA, Takane
- 1PC-025[#]** Efficient decomposition of new PVDF-related materials in subcritical water in the presence of hydrogen peroxide (Fac. Sci., Kanagawa Univ.; Institut Charles Gerhardt, Montpellier, CNRS) ○IGARASHI, Kazuma; HORI, Hisao; BANERJEE, Sanjib; AMEDURI, Bruno
- 1PC-026[#]** Molecular Modeling of Nano-Structured Ionic Liquid Crystal: Structural and Water Adsorption Properties (Grad. Sim. Studies, Univ. of Hyogo) ○ISHII, Yoshiki; WATANABE, Go; MATUBAYASI, Nobuyuki; KATO, Takashi; WASHIZU, Hitoshi
- 1PC-027** Functionalization of Biomass Plastics using Photo-activated Chlorine Dioxide (Sch. Pharm., Osaka Univ.) ○ASAHARA, Haruyasu
- 1PC-028[#]** High-yield direct synthesis of adipic acid from cyclohexane oxidation reaction using trimetallic subnanocatalyst (JST-ERATO, IIR Tokyo Tech.) ○MIFTAKHUL, Huda; TANABE, Makoto; YAMAMOTO, Kimihisa
- 1PC-029** Facile Synthesis of Non-symmetric Pincer Ligands and Application in Highly Active Iron Catalysts (Sch. Sci., Kitasato Univ.) ○KAMITANI, Masahiro; KUSAKA, Haruki; YUJIRI, Kouta; YUGE, Hidetaka
- 1PC-030** Reactivity and structural analysis of subnano copper oxide catalysts

- (RIEMT, AIST) ○NEGISHI, Nobuaki; MIYAZAKI, Yukari; ISHII, Genki; KOURA, Setsuko; YANG, Yingnan
1PC-055[#] Selective C-P Bond Cleavage of Phosphine Oxides by Sodium (IRC3, AIST; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○ZHANG, Jian-qiu; HAN, Li-biao
1PC-056 Science Literacy for Liberal Arts Education in Universities - Focusing Chemistry Education- (University) ○UCHIYAMA, Hiromi; SUGIMOTO, Kosaku

New materials

- 1PC-057[#]** Membraneless polyester microdroplets as primordial compartments at the origins of life (Earth-Life Science Institute, Tokyo Tech.) ○JIA, Tony Z; CHANDRU, Kuhan; HONGO, Yayoi; AFRIN, Rehana; USUI, Tomohiro; MYOJO, Kunihiko; CLEAVES, H. James
1PC-058[#] Development of U-shape heteroatoms containing heavy chalcogen atoms toward high-performance organic semiconductors (Grad. Sch. Eng., Kyushu Univ.; IFRC, Kyushu Univ.) ○MORI, Tatsuya; YASUDA, Takuma
1PC-059 Capture and Separation of Volatile Organic Compounds by a Bis (benzimidazole)-coordinated Nickel Dichloride Complex (Grad. Sch. Sci. Tech., Hirosaki Univ.; Fac. Sci., Yamagata Univ.; Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○OHTA, Shun; MUKAI, Ryota; IWABUCHI, Yurika; ISHIZAKI, Manabu; TODA, Tomoyuki; KURIHARA, Masato; OKAZAKI, Masaaki
1PC-060 Elastomers that show on/off switching of fluorescence upon deformation (RIES, Hokkaido Univ.; PRESTO, JST) ○SAGARA, Yoshimitsu
1PC-061[#] Design Integrin-targeted Molecular Self-assembling Peptides for Cancer Migration Inhibition (OIST) ○ROY, Sonja; ZHANG, Ye
1PC-062[#] Visualization of defect patterns in Langmuir-Blodgett films by X-ray reflectivity imaging (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ZHAO, Wenyang; SAKURAI, Kenji
1PC-063 Correlation between geometry of ligands and energy transfer mechanism of Eu(III) complex using antenna effect (Grad. Sch. Sci., Kyushu Univ.) ○MIYAZAKI, Shiori; SAKAMOTO, Haruna; MIYATA, Kiyoshi; SUZUE, Fumiya; KITAGAWA, Yuichi; HASEGAWA, Yasuchika; ONDA, Ken
1PC-064 Increasing molecular weight of the polymer resulting from precision oxidative polymerization of 2-phenylphenol. (Fac. of Sci., Okayama Univ. of Sci.) ○NAKANO, Akiyuki; TAMAKI, Hoshito; HIGASHIMURA, Hideyuki
1PC-065 Aqueous two-phase extraction of semiconducting single-wall carbon nanotubes with isomaltodextrin and thin-film transistor applications (RCMS, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; IMaSS, Nagoya Univ.; Hayashibara Co., Ltd.) ○OMACHI, Haruka; KOMURO, Tomohiko; MATSUMOTO, Kaieji; NAKAJIMA, Minako; WATANABE, Hikaru; HIROTANI, Jun; OHNO, Yutaka; SHINOHARA, Hisanori
1PC-066 Development of photo- and thermo-responsive mechanical crystals for smart actuators (Ctr. for Data Sci., Waseda Univ.) ○TANIGUCHI, Takuya; HAGIWARA, Yuki; HASEBE, Shodai; ISHIZAKI, Kazuki; ASAHI, Toru; KOSHIMA, Hideko
1PC-067 Development of transparent and tough plastics with nanophase separated structures by using bottlebrush polymers (ICYS, NIMS) ○YAMAUCHI, Yoshihiro; SAMITSU, Sadaki
1PC-068 Precise synthesis of copolymers of acrylonitrile and acrylamide by transfer (de)hydration catalysis (Grad. Sch. Sci., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; RCMS, Nagoya Univ.) ○NARAOKA, Asuka; ARITSU, Taku; UCHIYAMA, Mineto; ASAI, Toshiki; NOYORI, Ryoji; KAMIGAITO, Masami; NAKA, Hiroshi
1PC-069 Control of Helical-Axis Orientation in Cholesteric Liquid Crystals and Applications for Optical Materials-Colorants, Diffractors, and Strain Visualizers (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHIGEYAMA, Tomoki; KU, Kyosun; SUGIYAMA, Shohei; YANAGIHARA, Maki; HISANO, Kyohei; TSUTSUMI, Osamu
1PC-070 Mechanical properties of biomass hybrid materials composed of polysaccharide and hydroxyapatite (Grad. Sch. Eng., Doshisha Univ.) ○OKUDA, Kohei; MIZUTANI, Tadashi
1PC-071[#] Development of Janus porphyrin protected gold cluster (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OKAMOTO, Yasuo; SAKAMOTO, Masanori; TERANISHI, Toshiharu
1PC-072 Control of Ionic Conductivity of Ionic Liquids Containing Ruthenium by Light and Heat (Grad. Sch. Sci., Kobe Univ.) ○SUMITANI, Ryo; MOCHIDA, Tomoyuki
1PC-073[#] Organic mechanophore based on polymorphic pyrene derivatives (ENS Paris-Saclay; CNRS) ○HIRAI, Yuichi; WRONA-PIOTROWICZ, Anna; ZAKRZEWSKI, Janusz; MÉTIVIER, Rémi; CLÉMENCE, Allain
1PC-074 Synthesis and Host Abilities of a V-shaped Amphiphilic Molecule Bearing Carbazole Panels (NIT, Tokyo College) ○KUDOU, Kouichi; KISHIDA, Natsuki; YOSHIZAWA, Michito; IDE, Tomohito
1PC-075[#] Multicolor Plasmonic Nanotags for Anti-counterfeit in Supply Chain Security (Grad. Sch. Eng., Kyoto Univ.; Archilys; LASTI, Univ. of Hyogo; Fac. Sci. Eng., Doshisha Univ.) ○TAKAO, Fukuoka; HISHOSHI, Nakanishi; YASUSHIGE, Mori; AKINOBU, Yamaguchi
1PC-076 Properties of low-molecular-weight gelators produced from natural

- sugar 1,5-anhydro-D-glucitol as a raw material (NARO) KAJIKI, Takahito; KOMBA, Shiro; ○IWAURA, Rika
1PC-077[#] Tuning the electrochemical performance of Ti3C2 and Hf3C2 monolayer by functional groups for metal-ion batteries application (NENU, China) ○LI, Wenliang
1PC-078 Cylindrical Carbon with Helically Aligned Pores (ORIST; Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Osaka Univ.) ○MARUYAMA, Jun; SHINAGAWA, Tsutomu; WATANABE, Mitsuru; KASHIWAGI, Yukiyasu; MARUYAMA, Shohei; NAGAOKA, Toru; MATSUDA, Wakana; TSUTSUI, Yusuke; SEKI, Shu; UYAMA, Hiroshi
1PC-079[#] Study on the Optoelectronic Properties of 2D Organic Single Crystals (SCUT, China) ○WAN, Yuejuan; GU, Cheng
1PC-080[#] Withdrawn
1PC-081[#] Fine Modulation of the Higher-Order Excitonic States toward More Efficient Conversion from Upper-Level Triplet to Singlet (SKLLMD, SCUT) ○XU, Yuwei; MA, Yuguang
1PC-082 The metal adsorption property of alkyl phosphate salts (GIC, Kyushu Univ.) ○OSHIUMI, Naoyuki; MIZOGUCHI, Makoto
1PC-083 Analysis of mechanical properties of epoxy resin through coarse-grained models (Nippon Steel Chemical & Material Co., Ltd.) ○SHOJI, Naoyuki; YMASHITA, Takefumi
1PC-084 Fabrication of luminescent thin film with self-assembly lanthanide complexes and luminescent properties for functional thin film materials. (Grad. Sch. Sci., Osaka City Univ.) ○UENO, Mako; MIEDA, Eiko; MIYAKE, Hiroyuki; SHINODA, Satoshi

Electro-communications/Electronics

- 1PC-085** Innovative Molecular Recognition Sensing by Nanowires with Robust Molecular Fingerprint (IMCE, Kyushu Univ.) ○NAGASHIMA, Kazuki; LIU, Jiangyang; HOSOMI, Takuro; SHUNORI, Atsushi; NAKAO, Atsuo; TAKAHASHI, Tsunaki; KANAI, Masaki; YANAGIDA, Takeshi
1PC-086[#] Single-molecule conductance study of organometallic molecular wires with long-legged ligands (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Yuya; BAE, Yeana; FUJII, Shintaro; AKITA, Munetaka
1PC-087 π -Extension of electron-accepting dithiarubicene with a cyano-substituted electron-withdrawing group and application in air-stable n-channel organic field effect transistors (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TSUKAMOTO, Kenji; TAKAGI, Koji; IE, Yutaka; NAGANO, Takesaku; HARA, Mitsuo; OSAKADA, Kohtaro; TAKEUCHI, Daisuke
1PC-088 Synthesis of a new redox-active silane coupling reagent and modification of gate insulators for organic transistors (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○TAHARA, Keishiro; IKEDA, Takashi; KADOYA, Tomofumi; OZAWA, Yoshiki; ABE, Masaaki
1PC-089 Development of Liquid Crystalline Squaraine Dye and their Optical Property (Grad. Sch. Eng., Osaka Pref. Univ.; Sch. Sci. Eng., CIST) ○TAKANO, Masashi; MAEDA, Takeshi; SHIMA, Yuushiro; YAGI, Shigeyuki; OKOSHI, Kento
1PC-090 Molecular dynamics simulation study of plastic/ferroelectric crystal quinuclidinium perchlerate (EPRI, AIST; Grad. Sch. Sci., Hokkaido Univ.) ○YONEYA, Makoto; HARADA, Jun
1PC-091 AC Impedance analysis of copper etching process by formic acid type roughening solution under various conditions. (Fac. Eng., Utsunomiya Univ.) ○YOSHIIHARA, Sachio; OKUYAMA, Rio; NOJIRI, Naokatsu; ISHIDOU, Shinji; KIKUCHI, Yoshihiro
1PC-092[#] Effects of microwave on human beings; theoretical analysis of microwave heating in polar solvent enhancing chemical kinetics (Makoto Koike Microwave Research Institute) ○KOIKE, Makoto

Medical care/Health care/Biotechnology

- 1PC-093** Development of quantitative method for cystine and cysteine in hair. (Hoyu co.,Ltd.) ○KOZU, Yuriko; NAWA, Teppei
1PC-094 Study on care method for hair damage by bleaching with carbonate (Hoyu Co.,Ltd.) ○HIRAI, Rina; NAWA, Teppei
1PC-095[#] Development of multifunctional bio-nano cellulose composite scaffold and their characterization (Sch. Mat. Sci., JAIST) ○SONI, Saurabh; MISRA, Superb; MATSUMURA, Kazuaki
1PC-096[#] Solid materials that release a physiologically active gas, H₂S and NO, in response to air (MANA, NIMS) ○ISHIHARA, Shinsuke; IYI, Nobuo
1PC-097[#] Hyperpolarization of biomolecules by dynamic nuclear polarization using photo-excited triplet electrons (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○HAMACHI, Tomoyuki; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiro
1PC-098[#] Development of Cellular Imaging Probes Based on A-D-A-Type Fluorescent Dyes (Grad. Sch. Eng., Osaka Pref. Univ.) ○MORIMOTO, Ami; HAYASHI, Yuichiro; MAEDA, Takeshi; HARADA, Atsushi; YAGI, Shigeyuki
1PC-099[#] Suppression of Cancer Migration by synthetic Extracellular matrix (OIST) ROY, Sonja; ○YUKAWA, Sachie; CORTES, William; ZHANG, Jiahao; KANNO, Ryo; ZHANG, Ye
1PC-100[#] Integrating information technology (IT) and off-the-shelf consumer electronics into paper-based analytical devices (PADs) (Fac. Sci. Tech., Keio

- Univ.) ○MAEJIMA, Kento; KATOH, Aya; HIRUTA, Yuki; CITTERIO, Daniel
- 1PC-101[#]** Development of new photoactivatable fluorophores for in vivo/ex vivo cell labeling (Grad. Sch. Med., The Univ. of Tokyo) ○KASHIMA, Hiroki; KAMIYA, Makoto; URANO, Yasuteru
- 1PC-102[#]** Kirigami-inspired patch device for electromyographic analysis of the palm muscle during baseball pitching (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MIHARA, Sho; YAMAGISHI, Kento; NAKANISHI, Takenori; AZUMA, Masaru; TAKEOKA, Shinji; KANOSUE, Kazuyuki; NAGAMI, Tomoyuki; FUJIE, Toshinori
- 1PC-103** Evaluation of basic properties of alkaline stable reversed phase packing material based on calcium carbonate (Fac. Sci. Tech., Keio Univ.) ○KAIZU, Kogi; MOCHIDA, Mai; CITTERIO, Daniel; IMAI, Hiroaki; HIRUTA, Yuki
- 1PC-104[#]** Cellophane-Based Analytical Devices for Colorimetric Analysis of Multiple Urine Components (Grad. Sch. Sci. Tech., Keio Univ.) ○SHIGEMORI, Hiroki; MAEJIMA, Kento; SHIBATA, Hiroyuki; HIRUTA, Yuki; CITTERIO, Daniel
- 1PC-105** Microfluidic Paper-Based Analytical Devices Relying on a QR Code Array Readout (Fac. Sci. Tech., Keio Univ.) ○KATOH, Aya; MAEJIMA, Kento; HIRUTA, Yuki; CITTERIO, Daniel
- 1PC-106** A study on the synthesis of an α -ribofuranoside produced by *Streptomyces* species (Fac. Eng., Gifu Univ.) ○TOICHI, Yuto; OKA, Natsuhisa; JINDO, Yuka; ANDO, Kaori
- 1PC-107** Peptide drug screening using cyclic β -amino acids-containing helix peptide libraries (Grad. Sch. Sci., The Univ. of Tokyo) ○KAWAI, Marina; KATOH, Takayuki; SUGA, Hiroaki
- 1PC-108** Photoinduced cytotoxicity of photochromic diarylethene derivatives: The relation between the thiazole ring in the molecule and the cytotoxicity (Grad. Sch. Sci. Tech., Ryukoku Univ.; BRD, AIST) ○NAKAGAWA, Yuma; SUMARU, Kimio; MORISHITA, Kana; KANAMORI, Toshiyuki; HYODO, Kengo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 1PC-109** Skin-on-a-chip for evaluation of anti-inflammatory drugs (2): application to trichothecenes (Grad. Sch. Sci. Eng., Toyo Univ.) ○SUGIMOTO, Marika; TAKAHASHI-ANDO, Naoko; SASAKI, Naoki
- 1PC-110[#]** Concentration-induced Auto-catalysis; General Method for Discovery of Proliferating Drugs (NINS) ○MATSUO, Muneyuki; KURIHARA, Kensuke
- 1PC-111[#]** Identification of bioactive compound-protein interactions using a ribosome display system (Grad. Sch. Med. Life Sci., Yokohama City Univ.; RIKEN BDR) ○TAGUCHI, Kenjiro; WADA, Akira
- 1PC-112** High-speed AFM observation of light drive a DNA origami Molecular. (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NISHIKAWA, Tomoki; MORITAKA, Yuto; ISHIKAWA, Shumpei; OHYA, Yuichi; KUZUYA, Akinori
- 1PC-113** Development of RNA visible light crosslinker toward for photochemical RNA editing in cell (Sch. Mat. Sci., JAIST) ○MATSUNAGA, Takahiko; MIHARA, Junichi; SASAGO, Shinobu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 1PC-114** Development of Enzyme-Responsive Fluorescence Probes Bearing Carboxylate as Fluorescence-Enhancing Activator (Grad. Sch. Eng., Kyoto Univ.) ○OE, Masahiro; MIKI, Koji; OHE, Kouichi
- 1PC-115[#]** Development of Micro Device for the Simple and Rapid Measurement of Progesterone Using the Paper Substrate (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○KOMATSU, Takeshi; MAEKI, Masatoshi; ISHIDA, Akihiko; TANI, Hirofumi; TOKESHI, Manabu
- 1PC-116[#]** Structure affinity relationship-based ligand optimization of selective FKBP51 inhibitors towards treatment of widespread diseases (Inst. of Chem. and Biochem., TU Darmstadt) ○VOLL, Andreas; HAUSCH, Felix
- 1PC-117** Search for a cognitive function marker by chiral amino acid metabolomics (Kao Corp.; TMIG) ○KIMURA, Ren; TSUJIMURA, Hisashi; TSUCHIYA, Masaru; TANAKA, Atsushi; SOGA, Satoko; SUZUKI, Junko; OTA, Noriyasu; KIM, Hunkyung
- 1PC-118[#]** High-performance superparamagnetic Co-Mn-Zn ferrite nanoparticles for magnetic hyperthermia therapy of cancer (Sch. of Chem. Sci. and Eng., Tongji Univ.) ○PAN, Jiong; WU, Qingsheng
- 1PC-119** Artificial Antimicrobial Oligosaccharaides Inspired by Native Peptides (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YAMAMURA, Hatsuo; MIYAGAWA, Atsushi
- 1PC-120** Label-free in situ Monitoring of DNA Hybridization Chain Reaction using Sequence-selective Interaction of Groove Binders with Double-stranded DNAs (Grad. Sch. Sys. Eng., Wakayama Univ.) ○SAKAMOTO, Takashi; YAMADA, Rikuto
- 1PC-121[#]** Library construction of nonstandard peptides containing cyclic γ -amino acids and drug candidate screening by using RAPID system (Grad. Sch. Sci., The Univ. of Tokyo) ○MIURA, Takashi; KATOH, Takayuki; SUGA, Hiroaki
- 1PC-122[#]** Enzyme-Mediated dual-targeted molecular assembly Achieves Synergistic Combination Therapy (Bioinspired Soft Matter Unit, OIST) ○WU, Xia; ZHANG, Ye
- 1PC-123[#]** Site-selective N-terminal modification of proteins for biomedical applications (Grad. Sch. Eng., Osaka Univ.) ○ONODA, Akira; SUMIYOSHI, Eigo; INOUE, Nozomu; HAYASHI, Takashi
- 1PC-124[#]** Synthesis, in silico screening through molecular docking and DFT studies of new Spiro Indole-Coumarin Hybrids (Acharya Narendra Dev College, Univ. of Delhi, India; Dep. of Chem., Univ. of Delhi) ○KHANNA, Pankaj; KHANNA, Leena; SINGHAL, Sugandha; JAIN, Subhash C
- 1PC-125** Estimation of Molecular Chain Length of Synthetic Polymers using DNA Origami Molecular Machine (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HASHIMOTO, Yuki; ITO, Ryota; ISHIKAWA, Shumpei; OHYA, Yuichi; KUZUYA, Akinori
- 1PC-126** Effect of Hydroxy Group on Solution Properties of Mixture of Amino Acid-Type Anionic Surfactant and Zwitterionic Surfactant (Grad. Sch. Human Sci., Nara Women's Univ.; NOF CORPORATION; Kracie Home Products, Ltd.) ○YADA, Shiho; KAGEYAMA, Asako; SHIMOSEGAWA, Hiroshi; FUJITA, Hiroya; MATSUE, Yukako; YOSHIMURA, Tomokazu

Featured topic: New developments in organic chemistry

- 1PC-127[#]** Emission Mechanism of Pyridinium-Cyclic Enolate Betaine Fluorophores (Grad. Sch. Eng., Osaka Pref. Univ.) ○HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-128[#]** Emission Color Tuning in 4-(2-Thienyl)pyridinium-Cyclic Enolate Betaine Dyes (Grad. Sch. Eng., Osaka Pref. Univ.) ○SAIKUSA, Mao; HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-129[#]** Fluorescence Properties of Cyclic Enolate-Modified 4-(*N,N*-Diphenylamino)styryl)pyridinium Betaine Dyes (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○SHIMIZU, Kei; HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 1PC-130** Soft Crystal Exhibiting Multicolor Photoluminescence in Response to External Stimuli (Grad. Sch. Eng., Osaka Univ.; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Sch. Med., Jichi Med. Univ.; KEK; MPRC, Kobe Univ.; UNISOKU Co., Ltd.; Sch. Eng., Nihon Univ.) ○ARAHORI, Ikuya; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; TOHNAI, Norimitsu; KASAI, Hidetaka; NISHIBORI, Eiji; ICHIYANAGI, Kohei; SATOH-TOMITA, Ayana; NOZAWA, Syunsuke; TACHIKAWA, Takashi; NAKAGAWA, Tatsuo; KATOH, Ryuzi
- 1PC-131** OFF-ON Type Softcrystal for Optical Recording Exhibiting the Enhancement of Photoluminescence via Structural Phase Transition under Photoirradiation (Grad. Sch. Eng., Osaka Univ.; Sch. Med., Jichi Med. Univ.; KEK; MPRC, Kobe Univ.; Fac. Sci., Hokkaido Univ.) ○MOROTO, Yoshiki; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; SEI, Hiro; TOHNAI, Norimitsu; ICHIYANAGI, Kouhei; SAYOH-TOMITA, Ayana; NOZAWA, Shunsuke; TACHIKAWA, Takashi; IWASA, Takeshi
- 1PC-132[#]** Development of New Catalytic Synthetic Methods of *N*-Unprotected Ketimines (Grad. Sch. Pharm., Kyushu Univ.) ○MORIMOTO, Hiroyuki; KONDO, Yuta; KADOTA, Tetsuya; HIRAZAWA, Yoshinobu; MORISAKI, Kazuhiro; OHSHIMA, Takashi
- 1PC-133[#]** Fluoradene: Curved π -System and Its Structural Conversion via Anionization (Dept. Appl. Chem., Nat. Def. Acad.) ○SHOTARO, Hayashi
- 1PC-134** Novel Synthetic Method of 2,2-Dimethylolbutyric Acid [2,2-Bis (Hydroxymethyl) Butyric Acid] Utilizing Acetal Protection (Konishi Co., Ltd. Research & Development, Production Division) ○MAEDA, Shinya; INUI, Jun; OKAWARA, Yoshiaki; ENDO, Takeshi
- 1PC-135[#]** Structural diversification of glycolipid-type supramolecular hydrogels showing color change depending on aggregation states (Fac. Sci., Kochi Univ.; Fac. Eng., Gifu Univ.; Fac. Sci. Tech., Kochi Univ.) ○OOSUMI, Ryoya; IKEDA, Masato; IZUMI, Masayuki; ○OCHI, Rika
- 1PC-136[#]** Development of Dinuclear Organoplatinum(II) Complexes Towards Control of Excimer Photoluminescence (Grad. Sch. Eng., Osaka Pref. Univ.; Dept. of Tech. Syst., Osaka Pref. Univ. Coll. Tech.) ○HOTEI, Junichi; KAKEMIZU, Kairi; MAEDA, Takeshi; TSUJIMOTO, Hidetaka; YAGI, Shigeyuki
- 1PC-137** Polarized radical formation based on the orientation-controlled assembly of acene derivatives in metal-organic frameworks (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○ORIHASHI, Kana; FUJIWARA, Saiya; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiro
- 1PC-138** Helicity Control of Amphiphilic Chiral Tetranuclear Complexes at the Air-Water Interface (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.; RCFM, NIMS; MANA, NIMS; Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○TAKAHASHI, Mizuho; SAKATA, Yoko; NAKANISHI, Waka; MORI, Taizo; ARIGA, Katsuhiko; AKINE, Shigehisa
- 1PC-139** Synthesis of Polynuclear Palladium Complexes Having Chiral Salicylideneimine-type Cryptophane Lignand and Their Chiral Self-sorting Behavior (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○KANAMORI, Akihiro; SAKATA, Yoko; AKINE, Shigehisa
- 1PC-140** Selective Synthesis of [3]Rotaxanes Containing Rigid Diphenylviologen Derivative as an Axle Component Based on Cooperative Effect (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○OGURA, Takaya; SAKATA, Yoko; AKINE, Shigehisa
- 1PC-141[#]** Synthesis of Optically Active Poly(diphenylacetylene)s Bearing Anilide Groups in the Side Chain and Their Application to Chiral Stationary

Room B1

Lecture Hall Bldg. K201

Catalysts and Catalysis

Monday, March 23, AM

Photocatalysis

Chair: HISATOMI, Takashi (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(2B1-04, 2B1-05, 2B1-07, 2B1-08)

2B1-04 Effects of Co-catalyst on Production of Hydrogen Peroxide with Bismuth Vanadate Photocatalyst (Fac. Env. Urban Eng., Kansai Univ.)
○TAKIOKA, Ryosuke; IWAMURA, Kazushi; FUKU, Kojiro; SAYAMA, Kazuhiro; IKENAGA, Naoki

2B1-05* Synthesis and Photocatalytic Properties of Iron Disilicide/TiO₂ Composite Powder (KISTEC) ○AKIYAMA, Kensuke; TAKAHASHI, Ryo; MOTOIZUMI, Yu; FUNAKUBO, Hiroshi; IRIE, Hiroshi

2B1-07 Fabrication of black titanium dioxide nanowires by the corrosion approach and evaluation of the photocatalytic activity (Grad. Sch. Sci. Technol., Shinshu Univ.) ○TSUCHIYA, Yosuke; KARASAWA, Norikazu; MORIOKA, Yuta; ASAO, Naoki

2B1-08 Sensitization of Metal Oxide Photocatalysts with Wide Band Gaps to Visible Light by Mn Doping (Fac. Sci., TUS) ○KAWAMOTO, Hiromasa; YAMAGUCHI, Yuichi; KUDO, Akihiko

Chair: FUKU, Kojiro (10 : 30 ~ 11 : 10)

* 10:20-10:30: interval for laptop PC connection.(2B1-10, 2B1-11, 2B1-12, 2B1-13)

2B1-10 Photocatalytic Properties of Ir-doped Tantalate and Niobate Photocatalysts (Fac. Sci., TUS) ○UCHIDA, Haruki; YAMAGUCHI, Yuichi; KUDO, Akihiko

2B1-11 Photocatalytic Water Splitting over Various Cocatalysts-loaded Na_{0.5}Ln_{0.5}TiO₃ (Ln = lanthanoids) (Fac. Sci., TUS) ○TO, Charo; NAKAGAWA, Keita; YAMAGUCHI, Yuichi; KUDO, Akihiko

2B1-12 Physical properties and photocatalytic activity Ta₂N₅ synthesized from ZnTa oxides (Fac. Eng., Shinshu Univ.) ○ARUGA, Kodai; HISATOMI, Takashi; DOMEN, Kazunari

2B1-13 Visible-Light-Driven Photocatalysts Consisting of MoSe₂/C₆₀ Nanohybrids for Water Splitting (Grad. Sch. Env. Life Sci., Okayama Univ.)
○MATSUURA, Tomoki; OKABE, Shogo; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

Chair: YAMAGUCHI, Yuichi (11 : 20 ~ 12 : 10)

* 11:10-11:20: interval for laptop PC connection.(2B1-15, 2B1-16, 2B1-17, 2B1-18, 2B1-19)

2B1-15 Visible-light-driven photocatalysts consisting of s-SWCNT/TiO₂ nanohybrids for water splitting (Grad. Sch. Env. Life Sci., Okayama Univ.) ○YAMANE, Kosuke; YAMAGAMI, Masahiro; CHANMIYA, Sheikh; TAJIMA, Tomoyuki; TAKAGUCHI, Yutaka

2B1-16 Platform for Dye-sensitized Overall Water Splitting Using Semiconducting Carbon Nanotubes (Grad. Sch. Env. Life Sci., Okayama Univ.)
○SAGAWA, Ryohei; TAJIMA, Tomoyuki; YANO, Kotone; TAKAGUCHI, Yutaka

2B1-17 H₂ Evolution from Aqueous NH₃ Using Dye-Encapsulated CNT Photocatalysts (Grad. Sch. Env. Life Sci., Okayama Univ.) ○YANO, Kotone; TAJIMA, Tomoyuki; SAGAWA, Ryohei; TAKAGUCHI, Yutaka

2B1-18 Fabrication of a water splitting photocatalyst composed of dye-multilayered nanoparticle and hexacyanoferrate electron mediator (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YOSHIMURA, Nobutaka; KOBAYASHI, Atsushi; YOSHIDA, Masaki; KATO, Masako

2B1-19 Photoelectrochemical properties of Ru(II)-dye-multilayered NiO photocathode for solar hydrogen production (Sch. Sci., Hokkaido Univ.)
○SHIMAMURA, Taku; KOBAYASHI, Atsushi; YOSHIDA, Masaki; KATO, Masako

Tuesday, March 24, AM

Chair: MAEDA, Kazuhiko (10 : 00 ~ 10 : 50)

* 9:50-10:00: interval for laptop PC connection.(3B1-07, 3B1-08, 3B1-09, 3B1-10, 3B1-11)

3B1-07 Photoacoustic spectroscopic analysis of defect generation in titanium dioxide photocatalyst powder treated by ball milling (Grad. Sch. Life Sci. Sys. Eng., KIT; Fac. Sci., TUS) ○SHINODA, Tatsuki; MURAKAMI, Naoya; WATANABE, Kenta; YAMAGUCHI, Yuichi; KUDO, Akihiko

3B1-08 Calcium zirconate photocatalysts for reduction of carbon dioxide to carbon monoxide with water (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ISHII, Tomoko; ANZAI, Akihiko; YAMAMOTO, Akira; YOSHIDA, Hisao

3B1-09 Study on the role for Ca species of Ag-Cr(CaO)/Ca₂O₃:Ca in

Phases for HPLC (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.)

○NOZAKI, Mai; HIROSE, Daisuke; NISHIMURA, Tatsuya; MAEDA, Katsuhiko

1PC-142[#] Selective synthesis of cyclic monomer with dynamic nature and its application to polymer and supramolecular chemistry (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○AOKI, Daisuke; OTSUKA, Hideyuki

1PC-143[#] Exploration for inhibitors of lipopolysaccharide from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○SANO, Takuya; HITOMI, Yuki; MIYAMOTO, Junichiro; MATSUNO, Kenji; OHNO, Osamu

1PC-144[#] Macromolecular Helicity Induction and Memory in Poly(biphenylene-lactylene)s Accompanied by Time-Dependent Helicity Inversion (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○FUKUDA, Mayu; HIROSE, Daisuke; TANIGUCHI, Tsuyoshi; NISHIMURA, Tatsuya; YASHIMA, Eiji; MAEDA, Katsuhiko

1PC-145[#] Structural analysis and biological activity of novel kynurenine-production inhibitor isolated from the marine cyanobacterium (Sch. Adv. Eng., Kogakuin Univ.) ○HITOMI, Yuki; SASAKI, Tomomi; NAKAKAZE, Nanae; ASAI, Akira; TAKIKAWA, Osamu; OHNO, Osamu; MATSUNO, Kenji

1PC-146[#] Binding Behavior of Perylene-dimide Derivatives on Chiral Self-Assembled Nanofibers (Grad. Sch. Mat. Sci., NAIST) ○YONEZAWA, Shumpei; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

1PC-147[#] Regiodivergent Click Reaction of Bromo(phosphoryl)ethyne with Azides: Synthesis and Transformation of Bromotriazoles (Fac. of Eng., Okayama Univ. of Sci.) ○OKUDA, Yasuhiro; TSUCHIDA, Yoshiyuki; IMAFUKU, Kazuto; NISHIGAMI, Satoshi; ISHIHARA, Naoya; ORITA, Akihiro

1PC-148 Structural Conversion of Rotaxanes Having a Dinuclear Cobalt(III) Macrocycle by Addition of Amines (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○YAMAMOTO, Misato; SAKATA, Yoko; AKINE, Shigehisa

1PC-149[#] Iridium Catalyzed Allylation of Hydroxylamine: Access to Chiral Allyl Amine and α -Amino Acid (Sch. of Che. Sci. and Eng., Tongji Univ.)
○CHEN, Jiteng; ZHAO, Xiaoming

1PC-150[#] Deep Learning Analysis of Protein Molecules Using the Codification Techniques of Conformations (AIST) ○OIZUMI, Hiroshi

1PC-151[#] 127-Iodine NMR spectrometry used for structural analysis of organic compounds (Chiba Univ. FC) ○KAGAWA, Natsuko; HOSONO, Kazumi

1PC-152[#] Supramolecular properties of reduction-responsible water-soluble cyclophanes (Grad. Sch. Sci., Fukuoka Univ.) ○HAYASHIDA, Osamu; SHIBATA, Kana; NISHINO, Kana

1PC-153[#] Electrochemistry of (β -Diketonato)Ruthenium Complex/Cyclodextrin-Modified Gold Nanoparticle Inclusion Complex (Fac. Sci. Tec., Sophia Univ.) ○SHINONO, Hiromichi; CASULLI, Maria Antonietta; ENDO, Akira; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-154[#] Design and Evaluation of Ultrasmall Cyclodextrin Nanogels Using New Crosslinker (Fac. Sci. Tec., Sophia Univ.) ○KASHIDAIRA, Atsutoshi; TAKEUCHI, Satomi; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-155[#] Response Function of Ditopic Azo probe Possessing Phenylboronic Acid and Dipicolylamine (Fac. Sci. Tec., Sophia Univ.) ○ASHINO, Tomotake; TAKEMOTO, Yoshiki; ISHIKAWA, Shun; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-156[#] Design of Nitro / Fluoro Phenylboronic Acid Fluorophore/Vesicle Complexes and Their Sugar Recognition Function (Fac. Sci. Tec., Sophia Univ.) ○HAYAKAWA, Akihiro; EBISAWA, Yuu; ENDOU, Miwa; HASHIMOTO, Takeshi; HAYAKASHITA, Takashi

1PC-157[#] Design of Dipicolylamine/Quaternary Amine Dendrimer Complexes and Their Bacteria Discrimination Function (Fac. Sci. Tec., Sophia Univ.)
○MANITA, Koichi; YOYASU, Asuka; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-158[#] Evaluation of Recognition Function for Bacteria and Chemical Modification of Ultrasmall Nanogels (Fac. Sci. Tec., Sophia Univ.)
○SAGEHASHI, Kouta; KOMATSUZAKI, Maika; TAKEUCHI, Satomi; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-159[#] Selective synthesis of Hetero-multinuclear metallic complexes by using symmetrical and unsymmetrical porphyrin ligands (Grad. Sch. Sci., The Univ. of Tokyo; Rigaku Corp.) ○UBE, Hitoshi; IIZUKA, Fumiya; ENDO, Kenichi; SATO, Hiroyasu; SHIONOYA, Mitsuhiro

1PC-160[#] Electrochemical Phosphate Derivatives Anion Recognition of Cyclodextrin Modified with (β -Diketonato)Ruthenium Complex (Fac. Sci. Tec., Sophia Univ.) ○NAKAJO, Hitomi; CASULLI, Maria Antonietta; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-161[#] Synthesis and Evaluation for Sugar Recognition Fluorescent Probes Having Anthracene Fluorophore with Alkyl Spacer (Fac. Sci. Tec., Sophia Univ.) ○HIRAHARA, Yuya; KASAHARA, Chisato; HASHIMOTO, Takeshi; HAYASHITA, Takashi

1PC-162 Perylene photoredox catalyst-promoted desulfonation of ethenyl sulfones (Fac. of Eng., Okayama Univ. of Sci.) ○ORITA, Akihiro; WATANABE, Hikaru; ADACHI, Kazumasa; AKAGI, Yuta; OKUDA, Yasuhiro; WAKAMATSU, Kan

1PC-163[#] Cyclopropanation of aliphatic esters and alcohols extended to one-step catalytic linear sulfone synthesis (OIST) ○KHASKIN, Eugene; VOJKOVSKY, Tomas; DEOLKA, Shubham

photocatalytic CO₂ reduction by H₂O (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○MORISHITA, Masashige; TERAMURA, Kentaro; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TANAKA, Tsunehiro

3B1-10[#] Methylation of Benzene by Acetic Acid with Metal-loaded Titanium Oxide Photocatalysts (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○ZOU, Kexin; NANIWA, Shimpei; SAITO, Yuta; YAMAMOTO, Akira; YOSHIDA, Hisao

3B1-11 Effect of second component metallic elements with Ag nanoparticles on photocatalytic conversion of CO₂ by H₂O (Grad. Sch. Eng., Kyoto Univ.) ○HONDA, Sotaro; MORISHITA, Masashige; TERAMURA, Kentaro; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TANAKA, Tsunehiro

Chair: YOSHIDA, Hisao (11 : 00~11 : 40)

* 10:50-11:00: interval for laptop PC connection.(3B1-13, 3B1-14, 3B1-15)

3B1-13 Co-Al₂O₃ mixed oxide as a cocatalyst for photocatalytic water oxidation (Sch. Sci., Tokyo Tech.) ○KANAZAWA, Tomoki; UCHIYAMA, Tomoki; UCHIMOTO, Yoshiharu; NOZAWA, Shunsuke; YAMAKATA, Akira; MAEDA, Kazuhiko

3B1-14 Properties and evaluation of high voltage-type solar cell using vertically aligned TiO₂ nanorods by the controls of bulk density, film impedance, and photocatalytic reactivity (Fac. Sci., TUS; Grad. Sch. Sci., Chiba Univ.) ○HARA, Keisuke; KOJIMA, Takashi; URUSHIDATE, Kazuki; IZUMI, Yasuo

3B1-15[#] Spatiotemporal control of amide radicals under photocatalysis (Grad. Sch. Sci., Nagoya Univ.) ○MORI, Shogo; AOKI, Takahiro; KALIYAMOORTHY, Selvam; JUNG, Jieun; SAITO, Susumu

Tuesday, March 24, PM

Chair: KUMAGAI, Hiromu (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(3B1-25, 3B1-27, 3B1-28, 3B1-29, 3B1-30)

3B1-25[#] Ammonia photosynthesis from dinitrogen under modal strong coupling conditions (RIES, Hokkaido Univ.) ○OSHIKIRI, Tomoya; SHI, Xu; MISAWA, Hiroaki

3B1-27 EXAFS monitoring of LSPR effects due to Au and Ag metal nanoparticle photocatalysts and their proposed reaction mechanism (Grad. Sch. Sci., Chiba Univ.) ○FUKUHARA, Daiki; ZHANG, Hongwei; IZUMI, Yasuo

3B1-28 Improvement and the reaction mechanism of ¹³CO₂ photoreduction using metal nanoparticles to exhibit localized surface plasmon resonance (Grad. Sch. Sci., Chiba Univ.) ○ZHANG, Hongwei; IZUMI, Yasuo

3B1-29 Photocatalysis for Carbon Dioxide Reduction using Rhenium Tricarbonyl Complex Immobilized on Organosilica Nanotube (Toyota Central R&D Labs., Inc.) ○WAKI, Minoru; IKAI, Masamichi; GOTO, Yasutomi; INAGAKI, Shinji

3B1-30 Visible Light-Induced Reduction of CO₂ by Molecular Catalysts/Li-doped Nickel Oxide complex (Grad. Sch. Urban Envr. Sci., TMU) ○NAKAZATO, Ryosuke; YAMAMOTO, Daisuke; MUNAKATA, Hirokazu; KANAMURA, Kiyoshi; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo

Chair: TOMITA, Osamu (14 : 10~15 : 00)

* 14:00-14:10: interval for laptop PC connection.(3B1-32, 3B1-33, 3B1-34, 3B1-35)

3B1-32 Development of molecular photocathodes using Cu^I M^{III} O₂ (M = Al, Cr, Ga) p-type semiconductors for CO₂ reduction (Sch. Sci., Tokyo Tech.; IMRAM, Tohoku Univ.) ○EBATO, Yosuke; KUMAGAI, Hiromu; ISHITANI, Osamu

3B1-33 Effect of the modification with metal oxides for RuRe/C₃N₄ hybrid photocatalyst for CO₂ reduction (Sch. Sci., Tokyo Tech.) ○SHIZUNO, Mitsuhiko; WADA, Keisuke; ISHITANI, Osamu; MAEDA, Kazuhiko

3B1-34 Proton and CO₂ reduction using C₃N₄ photocatalyst and reversible electron donor (Sch. Sci., Tokyo Tech.) ○SHIBATA, Kengo; ISHITANI, Osamu; MAEDA, Kazuhiko

3B1-35[#] Design of Novel Mn(I) Catalysts for High Performance Photocatalytic CO₂ Reduction (Sch. Sci., Tokyo Tech.) ○FABRY, David C.; OHASHI, Kenji; OZEKI, Tomoji; ISHITANI, Osamu

Chair: HIGASHI, Tomohiro (15 : 10~15 : 50)

* 15:00-15:10: interval for laptop PC connection.(3B1-38, 3B1-40)

3B1-38[#] Efficient Photocatalytic Activation of C-H Bonds by Control of Atom Spatial Distribution on the Layered Silicate (Grad. Sch. Eng., Hiroshima Univ.) ○TSUNOJI, Nao; SADAKANE, Masahiro

3B1-40[#] Z-schematic water splitting and CO₂ reduction using water as an electron donor over metal sulfides and RGO-(CoO_x/BiVO₄) under visible light irradiation (Fac. Sci., TUS) ○YOSHINO, Shunya; YAMAGUCHI, Yuichi; IWASE, Akihide; KUDO, Akihiko

Wednesday, March 25, AM

Chair: IWASE, Akihide (9 : 30 ~10 : 30)

* 9:20-9:30: interval for laptop PC connection.(4B1-04, 4B1-05, 4B1-06, 4B1-07, 4B1-08, 4B1-09)

4B1-04[#] Visible-Light-Induced H₂/H₂O₂ Water Splitting Using Metalloporphyrin Incorporated Molecular Catalyst Sensitized System (Grad. Sch. Urban Envr. Sci., TMU) ○SEBASTIAN, Abin; KUTTASSERY, Fazalurahman; OHSAKI, Yutaka; SANO, Keito; TACHIBANA, Hiroshi; INOUE, Haruo

4B1-05 Dependence of amount of Fe(III) adsorbed on the photocatalytic activity over Cs-modified WO₃ (RCPV, AIST; Grad. Sch. Fac. Sci. Technol., TUS) ○HOSHINA, Kazuhiro; OKUNAKA, Sayuri; MISEKI, Yugo; GUNJI, Takahiro; SAYAMA, Kazuhiro

4B1-06 Photocatalytic hydrogen evolution by visible to near-infrared light responsive triazine-based conjugated polymers (RCSEC, Osaka Univ.; Sch. Eng. Sci., Osaka Univ.) ○HARADA, Takashi; UEDA, Mao; KIMURA, Kousuke; KAMIYA, Kazuhide; NAKANISHI, Shuji

4B1-07 Di-Transition-Metal-Incorporating Polyoxometalates as Shuttle Redox Mediators for Two-step Water Splitting under Visible Light (Sch. Eng., Kyoto Univ.) ○TACHIZAWA, Kento; TOMITA, Osamu; NAITO, Hiroki; SUZUKI, Hajime; SAKAMOTO, Ryota; ABE, Ryu

4B1-08 Charge-Carrier Dynamics of a Layered Oxyhalide Photocatalyst Revealed by Observation of Surface Reaction on a Single-Particle and Microwave Conductivity Measurement (Sch. Eng., Kyoto Univ.) ○OGAWA, Kanta; SUZUKI, Hajime; TOMITA, Osamu; TACHIKAWA, Takashi; SAEKI, Akinori; KAGEYAMA, Hiroshi; ABE, Ryu

4B1-09 Significant improvement in H₂ evolution on Bi₄NbO₈Cl photocatalyst by simultaneous photodeposition of Rh and Cr species (Sch. Eng., Kyoto Univ.) ○KOTANI, Tetsu; OGAWA, Kanta; SUZUKI, Hajime; TOMITA, Osamu; SAKAMOTO, Ryota; ABE, Ryu

Chair: HARADA, Takashi (10 : 40~11 : 30)

* 10:30-10:40: interval for laptop PC connection.(4B1-11, 4B1-12, 4B1-13, 4B1-14)

4B1-11 Elucidation of mechanism of Fe/Ru cocatalyst to improve water oxidation on Bi-based oxyhalide photocatalysts (Sch. Eng., Kyoto Univ.) ○MUROFUSHI, Katsuya; OGAWA, Kanta; SUZUKI, Hajime; TOMITA, Osamu; SAKAMOTO, Ryota; ABE, Ryu

4B1-12 Sequential modification of Pt and metal cyanoferrates on metal sulfide photocatalyst for improving H₂ evolution with [Fe(CN)₆]⁴⁻ electron donor (Sch. Eng., Kyoto Univ.) ○YAMADA, Hiroki; MATSUOKA, Hikaru; SUZUKI, Hajime; TOMITA, Osamu; SAKAMOTO, Ryota; ABE, Ryu

4B1-13 LIGHT ABSORPTION PROPERTIES AND ELECTRONIC BAND STRUCTURES OF LEAD-VANADIUM OXYHALIDE APATITES Pb₅(VO₄)₃X (X = F, Cl, Br, I) (Sch. Sci., Tokyo Tech.) ○NAKAMURA, Masashi; OQMHULA, Kenji; EGUCHI, Miharuru; OKA, Kengo; HONGO, Kenta; MAEZONO, Ryo; MAEDA, Kazuhiko

4B1-14[#] Introduction of phosphoric group on particulate photocatalyst surface by silane coupling treatment and contribution to mass transfer during hydrogen evolution reaction (Fac. Eng., Shinshu Univ.) ○KAGESHIMA, Yosuke; KAWANISHI, Toshiki; TESHIMA, Katsuya; DOMEN, Kazunari; NISHIKIORI, Hiromasa

Wednesday, March 25, PM

Chair: KAGESHIMA, Yosuke (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(4B1-25, 4B1-26, 4B1-27, 4B1-29, 4B1-30)

4B1-25 Effect of alkaline metal salts treatment for Pb₂Ti₂O_{5.4}F_{1.2} on the photocatalytic activity (Sch. Sci., Tokyo Tech.) ○WAKAYAMA, Haruki; HIRAYAMA, Naoki; NAKATA, Hiroko; KATO, Kosaku; YAMAKATA, Akira; OKA, Kengo; MAEDA, Kazuhiko

4B1-26 Photoelectrochemical Production of Hydrogen Peroxide from Molecular Oxygen using Bismuth Oxyhalide Photocathode (Grad. Sch. Eng., Kyoto Univ.) ○TOMITA, Osamu; ENDO, Noriaki; SUZUKI, Hajime; SAKAMOTO, Ryota; ABE, Ryu

4B1-27^{*} Synthesis and Photocatalytic Properties of rod-shaped ZnSe-AgInSe₂ Nanoparticles (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Osaka Univ.) ○KAMEYAMA, Tatsuya; MASUOKA, Ko; KUWABATA, Susumu; TORIMOTO, Tsukasa

4B1-29 Photoelectrochemical Water Splitting Using an Oxyfluoride Pb₂Ti₂O_{5.4}F_{1.2} as an Anode (Sch. Sci., Tokyo Tech.) ○MAEDA, Kazuhiko; HIRAYAMA, Naoki; KUMAGAI, Hiromu; OKA, Kengo

4B1-30 Photoelectrochemical Water Oxidation over a Lead-Iron Oxyfluoride Anode (Sch. Sci., Tokyo Tech.) ○MIZUOCHI, Ryusuke; OKA, Kengo; INAGUMA, Yoshiyuki; MAEDA, Kazuhiko

Chair: KAMEYAMA, Tatsuya (14 : 10~15 : 00)

* 14:00-14:10: interval for laptop PC connection.(4B1-32, 4B1-34, 4B1-35)

4B1-32^{*} Evaluation of particle size dependence for photoelectrochemical properties of near-infrared responsive particulate photocathode. (Grad. Sch. Sci. Technol., Shinshu Univ.) ○TAKAGI, Fumiaki; KAGESHIMA, Yosuke; TESHIMA, Katsuya; DOMEN, Kazunari; NISHIKIORI, Hiromasa

4B1-34 Study on hydrogen peroxide production using photoanodes prepared by particle transfer method (RISM, Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○HISATOMI, Takashi; KATO, Seito; DOMEN, Kazunari

4B1-35[#] Visible light Z-scheme water splitting using nitrogen/fluorine codoped rutile TiO₂ as O₂ evolution photocatalyst (Sch. Sci., Tokyo Tech.) ○MIYOSHI, Akinobu; VEQUIZO, Junie Jhon M; NISHIOKA, Shunta; YAMASHITA, Shunsuke; NOZAWA, Shunsuke; KUWABARA, Akihide;

Room B2

Lecture Hall Bldg. K202

Physical Chemistry -Structure-

Sunday, March 22, PM

Gas-phase spectroscopy

Chair: KUMA, Susumu (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1B2-25, 1B2-27, 1B2-29)
- 1B2-25[#]** Development of high-resolution molecular spectroscopy using frequency comb (SOKENDAI) ○HIROTA, Eiji; NISHIYAMA, Akiko
- 1B2-27[#]** Jet spectroscopy of metal containing free radical: dynamics of complex vibrational levels (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○FUKUSHIMA, Masaru; ISHIWATA, Takashi
- 1B2-29[#]** Spin-orbit splitting of Ar⁺ and Kr⁺ determined by strong-field ultrahigh-resolution Fourier transform spectroscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○ANDO, Toshiaki; LIU, Alex; NEGISHI, Naoki; IWASAKI, Atsushi; YAMANOUCHI, Kaoru

Chair: YASUIKE, Tomokazu (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1B2-32, 1B2-34, 1B2-35, 1B2-36, 1B2-37)
- 1B2-32[#]** Control of the stimulated emission dynamics between the ion-pair states of molecular iodine (Fac. Sci., TUS) ○HOSHINO, Shoma; ABE, Rin; TSUKIYAMA, Koichi
- 1B2-34[#]** Towards production of ultracold aniline cations in superfluid helium nano droplets (RIKEN) ○IGUCHI, Arisa; KUMA, Susumu; TANUMA, Hajime; AZUMA, Toshiyuki
- 1B2-35** Gas Phase IR Multiphoton Dissociation Spectroscopy of Guanine Nucleotide Based on IR-Laser Ablation of Droplet Beam (Fac. Sci., Gakushuin Univ.) ○ASAMI, Hiroya; SUZUKI, Seiya; KOHNO, Jun-ya
- 1B2-36** Deep UV CD Spectroscopy of Albumin Ions in the Gas Phase (Grad. Sch. Sci. and Technol., Gakushuin Univ.) ○KITAZAKI, Akihiro; ASAMI, Hiroya; KOHNO, Jun-ya
- 1B2-37** Study on dihydrogen bond of methanol-tert-butyl dimethylsilane cluster by IR spectroscopy (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○KAMIMURA, Ryoya; MATSUMOTO, Yoshiteru; ISHIKAWA, Haruki

Electronic Spectroscopy/Electronic State

Chair: MATSUMOTO, Yoshiteru (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(1B2-39, 1B2-41, 1B2-42, 1B2-43)
- 1B2-39[#]** Application of ATR - FUV spectroscopy for the analysis of the coordinate structure in concentrated solutions about alkali metal complexes (Grad. Sch. Sci. Eng., Kindai Univ.) ○UENO, Nami; SATO, Harumi; WAKABAYASHI, Tomonori; MORISAWA, Yusuke
- 1B2-41** Investigation of changes in electronic states of σ -electron due to methylation of cyclohexane by Attenuated Total Reflection (ATR) spectroscopy in Far-UV region (Fac. Sci. Eng., Kindai Univ.) ○HIGAKI, Yugo; MORISAWA, Yusuke
- 1B2-42** Investigation of electronic states of water in highly concentrated aqueous solutions of lithium salts (Fac. Sci. Eng., Kindai Univ.) ○MORISAWA, Yusuke; TAKAGOSHI, Masato; ZAITCEVA, Anna
- 1B2-43** Characteristic Feature in Far-Ultraviolet Spectra of Esters (Grad. Sch. Eng., Osaka Electro-Comm. Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) ○NAKAJIMA, Yurika; UENO, Nami; MORISAWA, Yusuke; MORITA, Shigeaki

Chair: MORISAWA, Yusuke (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(1B2-45, 1B2-47, 1B2-48)
- 1B2-45[#]** Electronic structure analysis of NixP films on Fe2P(10-10) (Coll. Sci., Rikkyo Univ.; Res. Ctr. for Smart Molecules, Rikkyo Univ.) ○MAEJIMA, Naoyuki; YOSHIDA, Tomoya; SHIMATO, Yuki; EDAMOTO, Kazuyuki
- 1B2-47[#]** Photoelectron spectroscopic and theoretical study of metallaborocycles (Dept. of Chem, Brown Univ.) ○CHEUNG, Ling Fung; KOCHERIL, George; CZEKNER, Joseph; WANG, Lai-sheng
- 1B2-48** Substituent Effect on the Two-Photon Absorption of Diphenylacetylene Derivatives with Electron Donating/Withdrawing Groups (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○ISHII, Tetsuro; ISOZAKI, Tasuku; KASHIHARA, Wataru; SUZUKI, Tadashi

Monday, March 23, AM

Magnetic Resonance

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

- * 8:50-9:00: interval for laptop PC connection.(2B2-01, 2B2-03, 2B2-05, 2B2-06)
- 2B2-01^{*}** ESR Study of NN or IN radical in porous crystalline Zn complex (Facul. Arts Sci. FY, Showa Univ.) ○KOBAYASHI, Hirokazu; AKINIWA, Kento; IWAHORI, Fumiyasu
- 2B2-03^{*}** Spin manipulation of weakly exchange coupled biradicals by arbitrary waveform pulsed ESR technique (Grad. Sch. Sci., Osaka City Univ.; NIOCH SB RAS) ○SATO, Kazunobu; HIRAO, Rei; SUGISAKI, Kenji; MATSUOKA, Hideto; TOYOTA, Kazuo; SHIOMI, Daisuke; ZAYTSEVA, Elena; TORMYSHEV, Victor M.; BAGRYANSKAYA, Elena; TAKUI, Takeji
- 2B2-05** Valence tautomerism in a tetranuclear Co₄ complex as studied by temperature dependent ESR spectroscopy (Grad. Sch. Sci., Osaka City Univ.; Department of Chemistry, Brock University; University of British Columbia) ○SHIBANO, Yuki; SUGISAKI, Kenji; MATSUOKA, Hideto; SHIOMI, Daisuke; BONANNO, Nico; PATRICK, Brian; LEMAIRE, Martin T.; SATO, Kazunobu; TAKUI, Takeji
- 2B2-06** Local structure and proton conductivity of Alginate acid-2-ethylimidazole composite (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○KAJIMOTO, Sho; SHIGETA, Yasuhiro; AMEMORI, Shogo; IDA, Tomonori; MIZUNO, Motohiro

Surface/Interface, others

Chair: JUDAI, Ken (10 : 10~10 : 50)

- * 10:00-10:10: interval for laptop PC connection.(2B2-08, 2B2-09, 2B2-10)
- 2B2-08** Atomic resolution observation and dynamic structure analysis of platinum clusters by electron microscope (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TOYONAGA, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2B2-09** Observation of heterometallic bond using transmission electron microscopy (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○INAZU, Minoru; TOYONAGA, Tetsuya; MORITA, Mari; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2B2-10^{*}** Effect of graphite electrode steps with several layers depth on the local structure of ionic liquid electrolyte (Grad. Sch. Eng. Sci., Osaka Univ.) YONEKAWA, Masaki; TANABE, Ichiro; NAMBA, Ryotaro; SASAHARA, Akira; ONISHI, Hiroshi; MORIKAWA, Yoshitada; ○FUKUI, Ken-ichi

IR/Raman Spectroscopy

Chair: SAKAMOTO, Akira (11 : 00~11 : 40)

- * 10:50-11:00: interval for laptop PC connection.(2B2-13, 2B2-14, 2B2-15, 2B2-16)
- 2B2-13** Anti-Stokes Raman intensity of molecule has nonequilibrium energy distribution: comparison among amino acid residues (Grad. Sch. Sci., Osaka Univ.) ○YAMASHITA, Satoshi; MIZUTANI, Yasuhisa
- 2B2-14** Chromophore structure of a long-lived photoreaction intermediate of heliorhodopsin (Sch. Sci., Osaka Univ.) ○URUI, Taito; OTOMO, Akihiro; MIZUNO, Misao; KANDORI, Hideki; MIZUTANI, Yasuhisa
- 2B2-15** Unique hydrogen bond network of the chromophore in outward sodium ion pump KR2 (Sch. Sci., Osaka Univ.) ○SHINOZAKI, Yuka; OTOMO, Akihiro; MIZUNO, Misao; ABE-YOSHIZUMI, Rei; KANDORI, Hideki; MIZUTANI, Yasuhisa
- 2B2-16** Retinal chromophore structure of new light-driven inward proton pumps SzRs (Grad. Sch. Sci., Osaka Univ.) ○SHIONOYA, Tomomi; SINGH, Manish; MIZUNO, Misao; KANDORI, Hideki; MIZUTANI, Yasuhisa

Monday, March 23, PM

Chair: HASEGAWA, Takeshi (13 : 00~13 : 40)

- * 12:50-13:00: interval for laptop PC connection.(2B2-25, 2B2-26, 2B2-27, 2B2-28)
- 2B2-25** Synthesis of [3,3](4,4') biphenylophane and its vibrational spectroscopic studies (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○SHIRAIISHI, Shunya; OKAJIMA, Hajime; SAKAMOTO, Akira
- 2B2-26** Simple measurements of vibrational circular dichroism spectra of some solid amino acids by the pellet method (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○NAKAGAWA, Hiroki; OKAJIMA, Hajime; SAKAMOTO, Akira
- 2B2-27** Infrared study of the Ca²⁺-coordination structures of EF-hand motif proteins: Effect on Glu at the 12th position by an amino acid substitution (Tokyo Med. and Dental Univ. Coll. Lib. Arts Sci.) ○NARA, Masayuki; MORII, Hisayuki; SAKAMOTO, Akira; MIYAKAWA, Takuya; TANOKURA, Masaru
- 2B2-28** Polarization of cavity enhanced Raman scattered light emerging from pendant drop (Grad. Sch. Sci. and Technol., Gakushuin Univ.) ○INOUE, Tomonao; KOHNO, Jun-ya

Chair: MIZUTANI, Yasuhisa (13 : 50~14 : 40)

* 13:40-13:50: interval for laptop PC connection.(2B2-30, 2B2-32, 2B2-34)

2B2-30[#] Controlling Technique of Molecular Arrangement of Porphyrin Derivatives in a Thin Film Using Intermolecular Interaction Studied by the pMAIRS and GIXD Techniques (ICR, Kyoto Univ.) ○TOMITA, Kazutaka; SHIOYA, Nobutaka; SHIMOAKA, Takafumi; HASEGAWA, Takeshi**2B2-32**^{*} Dependence of Low-Frequency Spectrum of Polystyrene Solution on Concentration and Molecular Weight (Chiba Univ.) ○SHIROTA, Hideaki; MORIYAMA, Katsuhiko**2B2-34** In-Situ Molecular Orientation Analysis of a π -Gelator at Air-Water Interface by Using Infrared Spectroscopy (ICR, Kyoto Univ.) ○YAMAGUCHI, Yuta; SHIMOAKA, Takafumi; SHIOYA, Nobutaka; AJAYAGHOSH, Ayyappanpillai; MORI, Taizou; ARIGA, Katsuhiko; HASEGAWA, Takeshi

**International Symposium on Molecular
Science - Physical Chemistry / Theoretical
Chemistry, Chemoinformatics, Computa-
tional Chemistry - Cosponsored by Japan
Society for Molecular Science**

Tuesday, March 24, AM

(9 : 00 ~ 9 : 10)

3B2-01[#] Opening Remarks / Closing Remarks Opening Address (RIKEN) ○Tahara, Tahei (09:00~09:10)

Chair: Shigeta, Yasuteru (9 : 10 ~ 10 : 30)

3B2-02[#] Keynote Lecture Quantum chemistry calculation and machine learning prediction of electric dipole in complex system (Univ. of Science and Technology of China) ○Jiang, Jun (09:10~09:50)**3B2-06**[#] Invited Lecture Machine learning and DFT simulation for core-loss spectroscopy (The Univ. of Tokyo) ○Mizoguchi, Teruyasu (09:50~10:10)**3B2-08**[#] Invited Lecture Computational materials design using materials simulations and informatics (Japan Advanced Inst. of Science and Technology) ○Hongo, Kenta (10:10~10:30)

Chair: Yamamoto, Hiroshi (10 : 40~11 : 20)

3B2-11[#] Asia Special Lecture Photo-driven molecular dipole reordering in halide perovskites (National Taiwan Univ.) ○Chiu, Ya-Ping (10:40~11:20)

Chair: Akutagawa, Tomoyuki (11 : 20~11 : 40)

3B2-15[#] Invited Lecture Exploration of exotic physical properties of π electrons: From superconductivity to quantum spin liquids and charge glasses (The Univ. of Tokyo) ○Hashimoto, Kenichiro (11:20~11:40)

Tuesday, March 24, PM

Chair: Nakazawa, Yasuhiro (12 : 40~13 : 40)

3B2-23[#] Invited Lecture Generation and Manipulation of Spin-polarized Current by Chiral Molecules (Inst. for Molecular Science) ○Suda, Masayuki (12:40~13:00)**3B2-25**[#] Invited Lecture Nonvolatile phase control of electronic/magnetic/superconducting states by an electric/optical pulse (The Univ. of Tokyo) ○Kagawa, Fumitaka (13:00~13:20)**3B2-27**[#] Invited Lecture Optical SHG and spontaneous polarization in organic conductors induced by an electron-type ferroelectric transition (Okayama Univ. of Science) ○Yamamoto, Kaoru (13:20~13:40)

Chair: Onda, Ken (13 : 50~15 : 50)

3B2-30[#] Keynote Lecture Photoexcitation Self-trapping in Molecular-like Semiconductors with Low-Dimensional Crystal Structures (Zhejiang Univ.) ○Zhu, Haiming (13:50~14:30)**3B2-34**[#] Asia Special Lecture Ab initio Nonadiabatic Molecular Dynamics Investigations on the Excited Carriers in Condensed Matter Systems (Univ. of Science and Technology of China) ○Zhao, Jin (14:30~15:10)**3B2-38**[#] Invited Lecture Electrode/Electrolyte Interface in Rechargeable Battery (Kyoto Univ.) ○Minato, Taketoshi (15:10~15:30)**3B2-40**[#] Invited Lecture Ultrafast time-resolved electron diffraction revealing the reduction mechanism of graphene oxide through the photon and thermal modes (Univ. of Tsukuba) ○Hada, Masaki (15:30~15:50)

Chair: Tachikawa, Masanori (16 : 00~17 : 20)

3B2-43[#] Keynote Lecture Accelerated discovery of Functional Materials using Machine Learning Combined with High Throughput Screening (Indian Inst. of Science, Bangalore) ○Singh, Abhishek K. (16:00~16:40)**3B2-47**[#] Invited Lecture Theoretical Design of Molecular Functional Materials Based on Symmetry and Periodicity (Kyoto Univ.) ○Haruta, Naoki (16:40~17:00)**3B2-49**[#] Invited Lecture Transcorrelated method: solid-state calculation based on the Jastrow-Slater ansatz (Osaka Univ.) ○Ochi, Masayuki (17:00~17:20)

(17 : 20~17 : 30)

3B2-51[#] Opening Remarks / Closing Remarks Closing Address (Kyushu Univ.) ○Terasaki, Akira (17:20~17:30)

Room B3
Lecture Hall Bldg. K203

**Organic Chemistry -Reaction and Synthesis-
Organic Photochemistry**

Monday, March 23, AM

Chair: MURANAKA, Atsuya (9 : 50 ~ 10 : 50)

* 9:40-9:50: interval for laptop PC connection.(2B3-06, 2B3-07, 2B3-08, 2B3-09, 2B3-10, 2B3-11)

2B3-06 Substitution effect on the photochemical behavior of a coumarin urea derivative. (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○KOIKE, Masato; NISHIMURA, Yoshinobu**2B3-07** Perylene-Benzocrown Ether Linked Molecules as Fluorescence Sensors for Recognition of Metal Ions (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HASHIMOTO, Haruna; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime**2B3-08** Fluorescence and Photoreactions of Compounds That Connect Pyrene and Alkenes with Oligoethylene Glycol Tethers (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MATSUBARA, Ryotaro; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime**2B3-09** Intramolecular photocycloaddition reactions of 3-alkenyl-2-cyanonaphthalenes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○YANAGIMOTO, Masaya; FURUYAMA, Taniyuki; SEGI, Masahito; MAEDA, Hajime**2B3-10** Study on the firefly bioluminescence reaction mechanism with structurally modified luciferins (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ITO, Shinichi; MAKI, Shojiro; HIRANO, Takashi**2B3-11** Control of the firefly bioluminescence with aminoluciferins having an additional substituent (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SUZUKI, Yudai; MAKI, Shojiro; HIRANO, Takashi

Chair: ARAKI, Yasuyuki (11 : 00~12 : 00)

* 10:50-11:00: interval for laptop PC connection.(2B3-13, 2B3-14, 2B3-15, 2B3-16, 2B3-18)

2B3-13 Crystalline-dependent chemiluminescence property of 1,2-dioxetanes with a phenacene side chain (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ISHITANI, Kaoru; MATSUHASHI, Chihiro; YAMAJI, Minoru; UEKUSA, Hidehiro; MAKI, Shojiro; HIRANO, Takashi**2B3-14** Remarkable Solvent Dependency of Thermally-Activated Delayed Fluorescence Materials Possessing Arylsulfonyl Groups (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○TOMINAGA, Takuya; YOKOYAMA, Yudai; ISHIGARAGUCHI, Kenta; MATSUI, Yasunori; OHTA, Eisuke; NAITO, Hiroyoshi; IKEDA, Hiroshi**2B3-15** Withdrawn**2B3-16**[#] Investigation of Interactions between Electron Beam and Organic Molecules toward Crystallographic Analysis by Electron Diffraction (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAMURO, Takayuki; LIU, Dongxin; YAMASHITA, Keitaro; YANAGISAWA, Haruaki; HARANO, Koji; NAKAMURA, Eiichi**2B3-18**[#] Selective Electronic Excitation of C60 Molecules by Carbon-nanotube-mediated Energy Transfer (Grad. Sch. Sci., The Univ. of Tokyo) ○LIU, Dongxin; LUNGERICH, Dominik; KOWASHI, Satori; NAKAMURO, Takayuki; YAMANOUCI, Kaoru; HARANO, Koji; NAKAMURA, Eiichi

Monday, March 23, PM

Chair: YAMAGUCHI, Eiji (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(2B3-26, 2B3-27, 2B3-28, 2B3-29, 2B3-30, 2B3-31)

2B3-26 Construction of catalytic asymmetric photoreaction system of anthracene derivatives mediated by human serum albumin (IMRAM, Tohoku Univ.) ○KAWAI, Misaki; TOYOOKA, Sota; FUJISHIRO, Yuya; NISHIJIMA, Masaki; ARAKI, Yasuyuki; WADA, Takehiko**2B3-27** Photo/thermal-domino reaction: the continuous photo-oxidation and aldol addition of aromatic olefins in the presence of 9, 10-dicyanoanthracene and proline as dual catalysts (IMRAM, Tohoku Univ.) ○NISHIJIMA, Masaki; UNABARA, Daisuke; ARAKI, Yasuyuki; WADA, Takehiko**2B3-28** Di- π -methane rearrangement of benzobarrelenes which possess oxygen functional groups at bridgeheads (Sch. Sci., Tokyo Tech.) ○TANAKA, Masato; NISHII, Arata; OHMORI, Ken; SUZUKI, Keisuke**2B3-29** Addition to alkene and borylation of aryl radicals via photoinduced decarboxylation of benzoic acids (Grad. Sch. Eng., Univ. of Fukui) ○TAKEUCHI, Haruka; YOSHIMI, Yasuharu**2B3-30** Photoinduced decarboxylative radical reactions using anthracene derivatives as visible light photoredox catalyst (Grad. Sch. Eng., Univ. of

Fukui) ○TAJIMI, Yuka; YOSHIMI, Yasuharu

2B3-31 Effects of substituent on Photochemical Carboxylation of Aromatic Amines Using CO₂ (Fac. Sci. Eng., Chuo Univ.) ○ABE, Kanae; NAKADA, Akinobu; MORI, Hirotochi; CHANG, Ho-chol

Chair: NAKAMURO, Takayuki (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(2B3-33, 2B3-35, 2B3-37, 2B3-38)

2B3-33** Site-selective tyrosine bioconjugation via photoredox catalysis: One chemical step from native to bioorthogonal proteins (Chem. Dept., Princeton Univ.) ○LI, Beryl; KIM, Daniel; BLOOM, Steven; MACMILLAN, David

2B3-35** Retroactive Stereodesign via the Merger of Photoredox Catalysis and Biocatalysis (Chem. Dept., Princeton Univ.) ○KAUTZKY, Jacob; YAO LOH, Yong; DEHOVITZ, Jacob; NAGAO, Kazunori; YAMAUCHI, Motoshi; HYSTER, Todd; MACMILLAN, David

2B3-37 Photo-induced decarboxylative dimerization of carboxylic acids catalyzed by a dicationic imidazolium salt (Grad. Sch. Eng., Osaka Univ.) ○SHINJI, Wataru; KUBO, Maiko; KODAMA, Takuya; OHKUBO, Kei; TOBISU, Mamoru

2B3-38 Michael addition to α , β -unsaturated carboxylic acids using visible light redox catalysts (Yokohama Coll. of Pharmacy) ○UMEZAWA, Misaki; HIRAHAMA, Toshiya; SHOJI, Mitsuru

Chair: KODAMA, Takuya (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(2B3-40, 2B3-41, 2B3-42, 2B3-43, 2B3-44, 2B3-45)

2B3-40 Nucleophilic dearomatization of indole derivatives by photoinduced electron transfer (Grad. Sch. Eng., Univ. of Fukui) ○MIZUNO, Taisei; YOSHIMI, Yasuharu

2B3-41 Radical addition to alkene via activation of C-H bond adjacent to amide by photoinduced electron transfer (Grad. Sch. Eng., Univ. of Fukui) ○MIYAGAWA, Hibiki; YOSHIMI, Yasuharu

2B3-42 Development of regioselective lactonization of diene compounds using visible light and iodine (Gifu Pharm. Univ.) ○TAKEDA, Mitsumi; MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

2B3-43 Development of iminolactonization through three-components reaction using molecular iodine and visible light (Gifu Pharm. Univ.) ○MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

2B3-44 Development of diastereoselective intermolecular lactonization reaction using visible light with molecular iodine (Gifu Pharm. Univ.) ○OE, Karin; MAEJIMA, Saki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

2B3-45 Selective C-H Arylation Enabled by Dual Action of Thiobenzoic Acid under Photoirradiation (Sch. Pharm. Sci., Univ. Shizuoka) ○KOBAYASHI, Fumihisa; FUJITA, Masashi; IDE, Takafumi; ITO, Yuta; EGAMI, Hiromichi; HAMASHIMA, Yoshitaka

Chair: FURUYAMA, Taniyuki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(2B3-47, 2B3-49, 2B3-50, 2B3-51, 2B3-52)

2B3-47** Development of photocatalytic ATRA reaction of olefins and carbon tetrabromide using Ph-pyridine as photo catalyst (Gifu Pharm. Univ.) ○MATSUO, Kazuki; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

2B3-49 Metal-Free Oxidative Amidation of Amine and Aromatic Aldehydes using an Anthraquinone-based Organophotocatalyst (Gifu Pharm. Univ.) ○UCHIDA, Seiichi; YAMAGUCHI, Eiji; TADA, Norihiro; ITOH, Akichika

2B3-50 Mechanistic study on intramolecular photocyclization of 1,4-naphthoquinone with alkene (Sch. Eng., Osaka Univ.) ○SHIMIZU, Nao; MORI, Tadashi

2B3-51 Large scale synthesis of 2-sulfanylhydroquinone dye and its convenient selective derivatization (Fac. Eng., Yamaguchi Univ.) ○ABE, Kohki; KAWAMOTO, Takuji; KAMIMURA, Akio

2B3-52 Derivatization of 2-sulfanylhydroquinone dimer dye aiming at acquiring water-soluble properties. (Fac. Eng., Yamaguchi Univ.; Fac. Med., Yamaguchi Univ.) UMEMOTO, Haruka; KAWAMOTO, Takuji; HONDA, Takeshi; ○KAMIMURA, Akio

Asian International Symposium - Photochemistry -

Tuesday, March 24, PM

(14 : 00~14 : 10)

3B3-31# Opening Remarks / Closing Remarks Opening Adress (Osaka Univ.) ○Mori, Tadashi (14:00~14:10)

Chair: Tobisu, Mamoru (14 : 10~15 : 00)

3B3-32# Invited Lecture Photochemical C-H oxygenation of polyolefin surface using chlorine dioxide (Osaka Univ.) ○Asahara, Haruyasu (14:10~14:30)

3B3-34# Keynote Lecture [6 π] Photocyclization to cis-Hexahydrocarbazol-4-ones: Substrate modification, mechanism and scope (Uka Tarsadia Univ.) ○Modha, Sachinkumar (14:30~15:00)

Chair: Ohkubo, Kei (15 : 10~16 : 10)

3B3-38# Invited Lecture Carbazole-based photocatalysts bearing high reducing ability (Kobe Univ.) ○Matsubara, Ryosuke (15:10~15:30)

3B3-40# Invited Lecture Flow Photochemical Synthesis of Thiophene-fused Organic Semiconductors (Osaka Prefecture Univ.) ○Matsui, Yasunori (15:30~15:50)

3B3-42# Invited Lecture Synthesis of unnatural α -amino acids by photo-induced decarboxylative radical addition to dehydroamino acids (Univ. of Fukui) ○Yamawaki, Mugen (15:50~16:10)

Chair: Yoshimi, Yasuharu (16 : 30~17 : 20)

3B3-46# Invited Lecture Unique reactor-dependent photoreduction of nitrobenzene derivatives (Industrial Technology Center of Wakayama Prefecture) ○Nishiyama, Yasuhiro (16:30~16:50)

3B3-48# Keynote Lecture Application of continuous-flow technology in photo chemical transformation and automated API synthesis (National Univ. of Singapore) ○Jie, Wu (16:50~17:20)

(17 : 20~17 : 30)

3B3-51# Opening Remarks / Closing Remarks Closing Comments (Ritsumeikan Univ.) ○Tamiaki, Hitoshi (17:20~17:30)

Room B4

Lecture Hall Bldg. K204

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 22, AM

Chair: SHIBATOMI, Kazutaka (9 : 30 ~10 : 30)

* 9:20-9:30: interval for laptop PC connection.(1B4-04, 1B4-05, 1B4-06, 1B4-07, 1B4-08, 1B4-09)

1B4-04 Silver Complex-Catalyzed Stereoselective Addition Reaction of Pyrroline Esters to Nitro Allylic Acetates (Fac. Sci. Eng., Chuo Univ.) ○OHNO, Itsuki; SUZUKI, Yuko; KATO, Shuma; KANEMOTO, Kazuya; FUKUZAWA, Shin-ichi

1B4-05 Ag-catalyzed stereoselective addition reaction of pyrroline esters to Morita-Baylis-Hillman adducts (Grad. Sch. Sci. Eng., Chuo Univ.) ○SUZUKI, Yuko; OHNO, Itsuki; KANEMOTO, Kazuya; FUKUZAWA, Shin-ichi

1B4-06 Stereoselective Construction of Vicinal Tetrasubstituted Stereocenters by Ag-Catalyzed Michael Addition Reaction of Trisubstituted Alkenes to Pyrroline Esters (Grad. Sch. Sci. Eng., Chuo Univ.) ○KATO, Shuma; SUZUKI, Yuko; KANEMOTO, Kazuya; FUKUZAWA, Shin-ichi

1B4-07# Application of Chiral Lewis Acids Integrated with Single-Walled Carbon Nanotubes in Water (Grad. Sch. Sci., The Univ. of Tokyo) ○KITANOSONO, Taku; KOBAYASHI, Shu

1B4-08 Development of Highly Active and Water-Stable Chiral Palladium(II) Catalysts in Water (Grad. Sch. Sci., The Univ. of Tokyo) ○HISADA, Tomoya; KITANOSONO, Taku; KOBAYASHI, Shu

1B4-09 Development of Asymmetric Direct Aldol Reaction in Water toward Application to Carbohydrates (Grad. Sch. Sci., The Univ. of Tokyo) KITANOSONO, Taku; ○KAWASE, Tomoya; HISADA, Tomoya; KOBAYASHI, Shu

Sunday, March 22, PM

Chair: KITANOSONO, Taku (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1B4-23, 1B4-24, 1B4-25, 1B4-26, 1B4-27, 1B4-28)

1B4-23 Favorskii rearrangement of chiral α -chloro- β -ketoesters (Toyouhashi Univ. of Tech.) ○KURATA, Yuri; SHIBATOMI, Kazutaka

1B4-24 Synthetic studies on polypropylenes using tandem non-aldol-aldol/aldol reaction (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKANISHI, Keisuke; HOSOKAWA, Seijiro

1B4-25 Synthesis of Difluoromethylenes via Selective Chlorination of Trifluoromethyl Group (Tokyo Med. and Dental Univ.) ○IDOGAWA, Rika; KIM, Youngchan; SHIMOMORI, Ken; HOSOYA, Takamitsu; YOSHIDA, Suguru

1B4-26 A new synthetic method for conjugated enynes by using Pd-pyridine complex. (Grad. Sch. Sci. Eng., Univ. of Toyama) MIYAZAWA, Masahiro; ○TERUTA, Misato; YOKOYAMA, Hajime

1B4-27 Indium-Catalyzed Coupling Reaction of Electron Deficient Alkenyl Ethers with Organosilicon Nucleophiles (Grad. Sch. Eng., Osaka Univ.) NAKAO, Shuichi; ○SAIKAI, Miki; NISHIMOTO, Yoshihiro; YASUDA, Makoto

1B4-28 Decarboxylative 1,2-Rearrangement of Cyclic Carbonates Using Lewis Acid (Fac. Sci. Tech., Keio Univ.) ○DOKAI, Yoichi; SAITO, Kodai; YAMADA, Tohru

Chair: SAITO, Kodai (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1B4-30, 1B4-31, 1B4-32, 1B4-33, 1B4-34, 1B4-35)
- 1B4-30** Synthesis and their complexation of crown ethers containing perfluorocyclopentene framework (Grad. Sch. Sci. Eng., Ibaraki Univ.)
○SHIRAI, Toshinari; NAKASHIMA, Shinnosuke; FUKUMOTO, Hiroki; AGOU, Tomohiro; KUBOTA, Toshio
- 1B4-31** Activation of inert C(sp³)-F bond of gem-difluoroalkene by aluminum-based Lewis acid (Grad. Sch. Eng., Nagoya Inst. of Tech.)
○OGAWA, Yuta; WANG, Jiandong; SHIBATA, Norio
- 1B4-32** Control of polyene cyclization through conformation fixing by inclusion in a hollow complex (Grad. Sch. Eng., The Univ. of Tokyo)
○HAYAKAWA, Harumi; KANDA, Tomoya; TAKEZAWA, Hiroki; FUJITA, Makoto
- 1B4-33** Thermal cyclization reactions of linear terpenoids through conformational control in a coordination cage (Grad. Sch. Eng., The Univ. of Tokyo)
○KANDA, Tomoya; TAKEZAWA, Hiroki; FUJITA, Makoto
- 1B4-34** Facile construction of C₃-symmetric macrocyclic tri-imines by non-template method (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○MORIYA, Yu; MORI, Keiji
- 1B4-35** Preparation of Chiral Cubanes (Grad. Sch. Eng., Kyoto Univ.)
○YOSHINO, Nana; MATSUBARA, Seijiro

Chair: TAKEZAWA, Hiroki (15 : 00~15 : 50)

- * 14:50-15:00: interval for laptop PC connection.(1B4-37, 1B4-38, 1B4-39, 1B4-40, 1B4-41)
- 1B4-37** Transformation of α -iodo alkyltrifluoroborate to α -acyloxy alkyl-difluoroborane (Grad. Sch. Sci., Osaka Pref. Univ.)
○TANIGUCHI, Naoya; UEDA, Mitsuhiro; MICHIGAMI, Kenichi; OHASHI, Masato
- 1B4-38** Synthesis of α -Xanthate Alkyltrifluoroborates via Group-Transfer Reaction (Grad. Sch. Sci., Osaka Pref. Univ.)
○KATO, Yuri; UEDA, Mitsuhiro; MICHIGAMI, Kenichi; OHASHI, Masato
- 1B4-39** Trapping of Short-Lived β -Furyllithium by In Situ Transmetalation (Grad. Sch. Eng., Kobe Univ.)
○HIRAI, Suguru; MARI, Daichi; INOUE, Kengo; OKANO, Kentaro; MORI, Atsunori
- 1B4-40** Trapping of Short-Lived Nitrogen-Containing Aryllithium by In Situ Transmetalation (Grad. Sch. Eng., Kobe Univ.)
○INOUE, Kengo; HIRAI, Suguru; OKANO, Kentaro; MORI, Atsunori
- 1B4-41[#]** Modular synthesis of aliphatic polyketones via site-selective monosilylation of 3,3-disubstituted pentane-2,4-diones (WPI-ICReDD, Hokkaido Univ.)
○SARKAR, Parantap; INOKUMA, Yasuhide; YONEDA, Tomoki

Chair: SHIMIZU, Yohei (16 : 00~17 : 10)

- * 15:50-16:00: interval for laptop PC connection.(1B4-43, 1B4-45, 1B4-46, 1B4-47, 1B4-48)
- 1B4-43*** Development of Catalytic Asymmetric Direct Mannish-Type Reactions of Weakly Acidic Compounds Using Chiral Alkaline Metal Salts as Chiral Sources (Grad. Sch. Sci., The Univ. of Tokyo)
○YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1B4-45** Diastereoselective synthesis of hetero-polycycles based on sequential hydride shift triggered double C(sp³)-H bond functionalization. (Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○SAKAI, Dan; MORI, Keiji; YOKOO, Kazuma
- 1B4-46** Synthesis of CF₃-substituted isobenzofurans via internal redox reaction/intermolecular nucleophilic addition reaction sequence. (Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○HOSHINO, Daiki; MORI, Keiji
- 1B4-47** Synthesis of 3-substituted quolinones by C-N bond cleavage induced ring recombination strategy (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
○YOKOO, Kazuma; MORI, Keiji
- 1B4-48[#]** Preparation of Enantioenriched Chiral Organic Molecules by Dynamic Asymmetric Induction: Stereocontrol of Planar Chiral Medium-sized Heterocyclic Molecules (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.)
○HAYASHI, Jun-ichi; KAWASAKI, Yuuya; ANO, Yusuke; KASHIWAGI, Takeru; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Chair: IGAWA, Kazunobu (17 : 20~18 : 10)

- * 17:10-17:20: interval for laptop PC connection.(1B4-51, 1B4-52, 1B4-53, 1B4-54, 1B4-55)
- 1B4-51** Asymmetric synthesis of multi-substituted cyclopropanes and their central-to-central chiraltransfer and central-to-axial chirality exchange in the ring-opening cyclization (Grad. Sch. Sci. Technol., Shinshu Univ.)
○SAITO, Taichi; YAMADA, Satoshi; NISHII, Yoshinori
- 1B4-52** Stereoselective construction of highly substituted cyclopropylboronic esters enabled by 1,2-metallate rearrangement of boron-ate complex (Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○SERIU, Masaya; MIZOGUCHI, Haruki; SAKAKURA, Akira
- 1B4-53** Development of a conjunctive-cross coupling of alkenylboronic ester-ate-complex enabled by an aryne-triggered strain-release 1,2-metallate rearrangement (Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○MIZOGUCHI, Haruki; MORIMOTO, Kazuki; TOYOTA, Kohei; NAKASONE, Reiko; SAKAKURA, Akira
- 1B4-54** Hydroboration and BH₃-mediated reduction using the phase-vanishing method (Grad. Sch. Sci., Osaka Pref. Univ.)
○SOGA, Nene; YOSHIKI, Tomo; MATSUBARA, Hiroshi
- 1B4-55** Boron-Catalyzed α -Amination of Carboxylic Acids (Fac. Sci.,

Hokkaido Univ.)
○MORISAWA, Takuto; SHIMIZU, Yohei; SAWAMURA, Masaya

Monday, March 23, AM

Chair: KITANOSONO, Taku (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(2B4-04, 2B4-05, 2B4-06, 2B4-07, 2B4-08, 2B4-09)
- 2B4-04** Synthesis of Aminovinylloxazolidinone via Silver-Catalyzed Carbon Dioxide Incorporation (Fac. Sci. Tech., Keio Univ.)
○SADAMITSU, Yuta; SAITO, Kodai; YAMADA, Tohru
- 2B4-05** N-Heterocyclic Carbene-Catalyzed Radical Relay Enabling Vicinal Alkylacylation of Alkenes (Grad. Sch. Med. Sci., Kanazawa Univ.; PRESTO, JST)
○OTA, Kenji; ISHII, Takuya; NAGAO, Kazunori; OHMIYA, Hirohisa
- 2B4-06** N-Heterocyclic Carbene-Mediated Radical Relay Enabling Vicinal Arylacylation of Alkenes (Grad. Sch. Med. Sci., Kanazawa Univ.; PRESTO, JST)
○MATSUKI, Yuki; TAKEMOTO, Shunsuke; NAGAO, Kazunori; OHMIYA, Hirohisa
- 2B4-07** Radical Alkylation and Acylation to Electron Deficient Alkenes by Use of Benzothiazoline under Heating Conditions (Fac. Sci., Gakushuin Univ.)
○TODA, Mitsuhiro; UCHIKURA, Tatsuhiro; MORIYAMA, Kaworuko; MOURI, Toshiki; AKIYAMA, Takahiko
- 2B4-08** Brønsted Acid-Catalyzed C-H Functionalization of Toluene Derivatives Utilizing Benzopyrylium Cation Intermediate as a Strong Oxidant under Light Irradiation (Grad. Sch. Sci., Tohoku Univ.)
○KIKUCHI, Jun; KODAMA, Shota; TERADA, Masahiro
- 2B4-09** 4-Methyltetrahydropyran as an Organic Reaction Solvent: Scope and Limitation (Fac. Eng., OIT; Fac. Eng., OIT)
○KOBAYASHI, Shoji; TAMURA, Tomoki

Chair: UCHIKURA, Tatsuhiro (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(2B4-11, 2B4-12, 2B4-13, 2B4-14, 2B4-15, 2B4-16)
- 2B4-11[#]** Development of Pyrene-based Chiral Lewis Acid Catalysts for Non-Covalent Immobilization (Sch. Sci., The Univ. of Tokyo)
○BAHRI, Janet; IDE, Akihiro; KITANOSONO, Taku; KOBAYASHI, Shu
- 2B4-12[#]** Development of Anion-Containing Chiral Ligands for Catalytic Reactions in Water (Grad. Sch. Sci., The Univ. of Tokyo)
○LU, Fangqiu; KITANOSONO, Taku; KOBAYASHI, Shu
- 2B4-13[#]** Synthesis of Biocompatible Chiral Lewis Acid Complexes (Sch. Sci., The Univ. of Tokyo)
○KIM, Woogyum; KITANOSONO, Taku; KOBAYASHI, Shu
- 2B4-14** Synthesis of Sultone-fused Pyrrolidine Compounds using Asymmetric 1,3-Dipolar Cycloaddition Reaction (Grad. Sch. Sci. Eng., Chuo Univ.)
○FURUYA, Shohei; KATO, Shuma; KANEMOTO, Kazuya; FUKUZAWA, Shin-ichi
- 2B4-15** Stereoselective Cyclization of β -Silyl- γ -alkylidene- γ -butyrolactones with Aldehydes and Ketones (Grad. Sch. Sci., Osaka City Univ.)
○ARIYOSHI, Shoma; SAKAGUCHI, Kazuhiko; NISHIMURA, Takahiro
- 2B4-16** Synthesis of Salen Ligand having Functional Groups for Cycloaddition Reaction (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.)
○NAKAI, Yota; SUNAGA, Shuto; HOSHINO, Yujiro; HONDA, Kiyoshi

Monday, March 23, PM

Chair: KANEMOTO, Kazuya (12 : 50~13 : 50)

- * 12:40-12:50: interval for laptop PC connection.(2B4-24, 2B4-26, 2B4-27, 2B4-28)
- 2B4-24[#]** Development of New Catalytic Synthetic Methods of N-Unprotected Ketimines and Application to One-Pot Reactions (Grad. Sch. Pharm., Kyushu Univ.)
○MORIMOTO, Hiroyuki; KONDO, Yuta; KADOTA, Tetsuya; HIRAZAWA, Yoshinobu; MORISAKI, Kazuhiro; OHSHIMA, Takashi
- 2B4-26** Development of Chiral Iron(III)-silver(I) Cooperative Catalysts for Enantioselective Conia-ene Reaction (Grad. Sch. Eng., Nagoya Univ.)
○HIRAMATSU, Rin; SAKAKIBARA, Masato; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 2B4-27** Chiral Diphosphine Oxide-Iron(II) Catalysts for Enantioselective Oxidative Coupling Reaction of 2-Naphtol Derivatives (Sch. Eng., Nagoya Univ.)
○TAKEDA, Kazuki; HAZEYAMA, Takashi; NAKAGAWA, Keita; HORIBE, Takahiro; ISHIHARA, Kazuaki
- 2B4-28[#]** Enantioselective [4+2]-Cycloaddition Reaction of Monofluoroalkenes with Imines Catalyzed by Chiral Phosphoric Acid (Grad. Sch. Sci., Tohoku Univ.)
○YE, Haiting; KIKUCHI, Jun; TERADA, Masahiro

Chair: HATANO, Manabu (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(2B4-31, 2B4-32, 2B4-33, 2B4-34, 2B4-35, 2B4-36)
- 2B4-31** Enantioselective Friedel-Crafts alkylation of heterocyclic compounds to tertiary indolyl alcohols by means of chiral phosphoric acid (Fac. Sci., Gakushuin Univ.)
○OSAKABE, Hiroto; UCHIKURA, Tatsuhiro; AKIYAMA, Takahiko
- 2B4-32** 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
- 2B4-33** Chiral Strong Brønsted Acid-Catalyzed Enantioselective Reactions of Simple Olefins with Glyoxylate (Grad. Sch. Sci., Tohoku Univ.) ○AIZAWA, Yuki; KIKUCHI, Jun; TERADA, Masahiro
- 2B4-34** Synthesis of a Novel Electron-Deficient Chiral Biphenol and Its Applications in Catalytic Asymmetric Reactions (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YASUMOTO, Kento; KANO, Taichi; MARUOKA, Keiji
- 2B4-35** Development of Novel Brominating Agents and Their Application to Asymmetric Bromination of Aldehydes (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKESHIMA, Aika; SHIMOGAKI, Mio; KANO, Taichi; MARUOKA, Keiji
- 2B4-36** Diastereocontrol in enantioselective Mannich Reaction of Aldehydes with Z-Ketimines by Secondary Amine Catalysts (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HOMMA, Chihiro; TAKESHIMA, Aika; KANO, Taichi; MARUOKA, Keiji

Chair: KIKUCHI, Jun (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(2B4-38, 2B4-39, 2B4-40, 2B4-41, 2B4-43)
- 2B4-38** Enantioselective Friedel-Crafts alkylation reaction of heterocyclic compounds with α -trifluoromethylated β -nitrostyrenes catalyzed by chiral metal phosphate (Fac. Sci., Gakushuin Univ.) ○YOKOHAMA, Sosuke; KANEKO, Mio; UCHIKURA, Tatsuhiko; AKIYAMA, Takahiko
- 2B4-39[#]** Catalytic Phosphonation Reactions of Alcohols (Grad. Sch. Sci., The Univ. of Tokyo) ○CHO, Soomin; SAITO, Yuki; KOBAYASHI, Shu
- 2B4-40[#]** Catalytic Phosphonation of Alcohols towards Synthesizing Bioinspired Phosphates (Grad. Sch. Sci., The Univ. of Tokyo) ○DANIELI, Luca; SAITO, Yuki; CHO, Soomin; KOBAYASHI, Shu
- 2B4-41^{**}** Chiral Macrocyclic Lithium Binaphtholate Catalysts for Enantioselective Alkynyl Addition to Ketones (Grad. Sch. Eng., Nagoya Univ.) ○MOCHIZUKI, Takuya; YAMASHITA, Kenji; HATANNO, Manabu; ISHIIHARA, Kazuaki
- 2B4-43[#]** Extremely Efficient Transesterification by Using Metal Phenoxide Catalysts (Grad. Sch. Eng., Nagoya Univ.) ○NG, Jie Qi; ARIMA, Hiro; MOCHIZUKI, Takuya; TOH, Kohei; HATANNO, Manabu; ISHIIHARA, Kazuaki

Chair: SAITO, Yuki (16 : 20~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(2B4-45, 2B4-47, 2B4-48, 2B4-49, 2B4-50)
- 2B4-45^{**}** Designer Quaternary Ammonium Hypoiodite Catalysis for Oxidative α -Aldolization of Carbonyl Compounds (Grad. Sch. Eng., Nagoya Univ.) ○SAHARA, Naoto; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 2B4-47** Hypoiodite-Catalyzed Chemoselective Oxidative Generation of Quinone Methides and Tandem Reactions (Grad. Sch. Eng., Nagoya Univ.) ○KONDO, Ryutarō; NISHIOKA, Kohei; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 2B4-48** Synthesis of sp³-carbon rich azatricyclododecene framework (Lab. Chem. Life Sci., Tokyo Tech.) ○UMEDERA, Kohei; MORITA, Taiki; NAKAMURA, Hiroyuki
- 2B4-49** Investigation of Stereoselective Construction of α, α -Disubstituted β -Hydroxy- α -Amino Acid Structure Using Chiral Lewis Acid Catalysts (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HANADA, Masato; ARAKI, Yuya; MIZOGUCHI, Haruki; SAKAKURA, Akira
- 2B4-50** Chatacteristic Conjugation Reactivity of α -Azido Amides (Grad. Sch. Mat. Sci., NAIST) ○MAEGAWA, Koshiro; ONISHI, Seiji; TANIMOTO, Hiroki; KAKIUCHI, Kiyomi

Tuesday, March 24, AM

Chair: HASHIMOTO, Takuya (9 : 10 ~ 10 : 10)

- * 9:00-9:10: interval for laptop PC connection.(3B4-02, 3B4-03, 3B4-04, 3B4-05, 3B4-06, 3B4-07)
- 3B4-02** Organophotoredox-Catalyzed Synthesis of Sterically Hindered Dialkyl Ethers (Grad. Sch. Med. Sci., Kanazawa Univ.; Takeda Pharmaceutical Co., Ltd.; PRESTO, JST) ○SHIBUTANI, Shotaro; KODO, Taiga; TAKEDA, Mitsutaka; NAGAO, Kazunori; TOKUNAGA, Norihito; SASAKI, Yusuke; OHMIYA, Hirohisa
- 3B4-03** Organophotoredox-Catalyzed Decarboxylative C(sp³)-Heteroatom Bond Formation (Grad. Sch. Med. Sci., Kanazawa Univ.; Takeda Pharmaceutical Co., Ltd.; PRESTO, JST) ○KODO, Taiga; SHIBUTANI, Shotaro; TAKEDA, Mitsutaka; NAGAO, Kazunori; TOKUNAGA, Norihito; SASAKI, Yusuke; OHMIYA, Hirohisa
- 3B4-04[#]** Desulfonylative Alkylation of Electron-Deficient Olefins via Photoredox Catalysis (WPI-ITbM, Nagoya Univ.) ○YIM, Jacky C.-h.; TAHARA, Yasuyo; NAMBO, Masakazu; CRUDDEN, Cathleen
- 3B4-05** C(sp³)-H Allylation of Amines by the Merger of Cobalt Catalysis and Photoredox Catalysis (Fac. Pharm., Hokkaido Univ.) ○SATO, Shunta; YOSHINO, Tatsuhiko; KOJIMA, Masahiro; MATSUNAGA, Shigeki
- 3B4-06** Synthesis of *N*-arylidole by use of intramolecular reaction under photoredox conditions (Fac. Sci., Gakushuin Univ.) ○SHIMURA, Kosuke; UCHIKURA, Tatsuhiko; AKIYAMA, Takahiko
- 3B4-07** Hydroalkylation of alkenes via photoexcitation using benzothiazoline as alkylating agent. (Fac. Sci., Gakushuin Univ.) ○FUJII, Tatsuya;

MORIYAMA, Kaworuko; FUJII, Tatsuya; AKIYAMA, Takahiko

Chair: OHMIYA, Hirohisa (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(3B4-09, 3B4-10, 3B4-11, 3B4-12, 3B4-13)
- 3B4-09** High-Performance Hypoiodite Catalysis for Enantioselective Oxidative Dearomatization of Arenols (Grad. Sch. Eng., Nagoya Univ.) ○KATO, Takehiro; SAHARA, Naoto; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 3B4-10** High-Performance Chiral Quaternary Ammonium Salt-Catalyzed Enantioselective Dearomative Chlorination of Arenols (Sch. Eng., Nagoya Univ.) ○KUMAGAI, Sachiko; SAHARA, Naoto; KATADE, Outa; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 3B4-11** Chiral Quaternary Ammonium Hypobromite Catalysis for Enantioselective Dearomative Azidation of Arenols (Sch. Eng., Nagoya Univ.) ○TSUKIMORI, Yasuo; UYANIK, Muhammet; ISHIIHARA, Kazuaki
- 3B4-12** Aliphatic C-H Amination of *N*-Alkylsulfamides Using Monovalent Iodine Reagents (Grad. Sch. Eng., Osaka Univ.) ○JOU, Keisuke; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 3B4-13^{**}** *p*-Methylbenzyl Group: Oxidative Removal and Orthogonal Alcohol Deprotection (Fac. Sci., Hokkaido Univ.; Sch. Sci. Tech., Kwansei Gakuin Univ.) ○IKEUCHI, Kazutada; MURASAWA, Kentaro; OHARA, Kenya; YAMADA, Hidetoshi

Chair: KIYOKAWA, Kensuke (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(3B4-16, 3B4-17, 3B4-19, 3B4-20, 3B4-21)
- 3B4-16** Iron-catalyzed Radical Reactions of Sugar-derived Alkylsilyl Peroxides (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SHIOZAKI, Yoko; SAKURAI, Shunya; SAKAMOTO, Ryu; MATSUMOTO, Akira; MARUOKA, Keiji
- 3B4-17^{**}** Design of Novel Organoradicals based on *N*-Hydroxybenzimidazoles for Direct C-H Functionalization Reactions (Grad. Sch. Pharm. Sci., Kyoto Univ.) ○MATSUMOTO, Akira; YOSHII, Tomomi; TSUZUKI, Saori; SAKURAI, Shunya; SAKAMOTO, Ryu; MARUOKA, Keiji
- 3B4-19** Radical Cation-induced [4 + 2] Cycloaddition Initiated by Divalent Iron Salts (Sch. Eng., Nagoya Univ.) ○KATO, Haruna; KATAGIRI, Kei; HORIBE, Takahiro; ISHIIHARA, Kazuaki
- 3B4-20[#]** Development of Chiral Iron(III) Salts for Enantioselective Radical Cation-induced [4 + 2] Cycloaddition (Grad. Sch. Eng., Nagoya Univ.) ○OHMURA, Shuhei; HORIBE, Takahiro; ISHIIHARA, Kazuaki
- 3B4-21** Synthesis of amide through visible-light photoredox-catalyzed radical carbonylation of organosilicates (Grad. Sch. Sci., Osaka Pref. Univ.) ○FUKUYAMA, Takahide; CARTIER, Alex; LEVERNIER, Etienne; CORCÉ, Vincent; DHIMANE, Anne-lise; OLLIVIER, Cyril; RYU, Ilhyong; FENSTERBANK, Louis

Tuesday, March 24, PM

Chair: YAMASHITA, Kenji (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3B4-29, 3B4-30, 3B4-31, 3B4-32, 3B4-33, 3B4-34)
- 3B4-29** Organoiodine(III)-mediated Intermolecular syn-Aminoxygenation of Alkenes (Grad. Sch. Sci., Chiba Univ.) ○WATA, Chisato; HASHIMOTO, Takuya
- 3B4-30** Selenium-catalyzed Enantioselective Allylic Amination (Grad. Sch. Sci., Chiba Univ.) ○OTSUKA, Yuta; HASHIMOTO, Takuya
- 3B4-31** Nazarov-Type Cyclization via C-F Bond Activation of 3,3-Difluoropenta-1,4-dienes: Synthesis of fluorine-substituted cyclopentadienes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○HIDA, Gentaro; MORIOKA, Ryutarō; FUJITA, Takeshi; ICHIKAWA, Junji
- 3B4-32** Synthesis of 2-Cyclohexenones based on Decarboxylative Homo-Nazarov Cyclization (Fac. Sci. Tech., Keio Univ.) ○KIMARU, Natsuki; KOMATSUKI, Keiichi; SAITO, Kodai; YAMADA, Tohru
- 3B4-33** Developments of Intramolecular Cyclization based on Decarboxylation of Cyclic Enol Carbonates: Synthetic Method of Seven-Membered Ketone (Fac. Sci. Tech., Keio Univ.) ○KOZUMA, Akane; KOMATSUKI, Keiichi; SAITO, Kodai; YAMADA, Tohru
- 3B4-34** Practical Synthesis of Click Reaction Device DACN and its Application (IMCE, Kyushu Univ.; Fac. Eng., Kyushu Univ.) KAWASAKI, Yuuya; ○TANIGUCHI, Yutarō; SETO, Yuki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Room B5

Lecture Hall Bldg. K205

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

Sunday, March 22, AM

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

* 9:20-9:30: interval for laptop PC connection.(1B5-04, 1B5-05, 1B5-06, 1B5-07, 1B5-08)

- 1B5-04** Enantioselective Michael Addition to β -Nitrostyrenes using Custom-made Chiral Pyrrolidyl Anthranilic Acid Catalyst (Grad. Sch. Sci., Chiba Univ.) ○OKA, Yukari; MORIYAMA, Katsuhiko
- 1B5-05**[#] Homologation of Alkyl Acetates or Acetals by Formal Insertion of Diazo Esters into a Carbon-Carbon Bond (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○WANG, Fei; YI, Junyi; YASUDA, Makoto
- 1B5-06** Asymmetric Michael addition with an N-terminal guanidylated peptide catalyst (IIS, The Univ. of Tokyo) ○TAMARIBUCHI, Kenya; AKAGAWA, Kengo; KUDO, Kazuaki
- 1B5-07**[#] Chiral Bis(guanidino)iminophosphorane Catalyzed Asymmetric Hydrophosphinylation of 1,1-Vinyl Azaheterocycle N-Oxides via Enantioselective Protonation (Grad. Sch. Sci., Tohoku Univ.) ○DAS, Saikat; HU, Qiupeng; KONDOH, Azusa; TERADA, Masahiro
- 1B5-08**^{*} Bronsted Base-Catalyzed Reductive Cyclization of α -Iminocarbonyl Compounds (Grad. Sch. Sci., Tohoku Univ.) ○KONDOH, Azusa; TERADA, Masahiro

Sunday, March 22, PM

Chair: MORIYAMA, Katsuhiko (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1B5-23, 1B5-24, 1B5-25, 1B5-26, 1B5-27, 1B5-28)

- 1B5-23** Parallel Kinetic Resolution of Racemic Unsymmetrical Bisallylic Amides via Asymmetric Bromocyclization (Sch. Pharm. Sci., Univ. Shizuoka) ○ICHIKAWA, Mamoru; HIROKAWA, Ryo; HISANAGA, Tatsunari; YAMASHITA, Kenji; KAWATO, Yuji; HAMASHIMA, Yoshitaka
- 1B5-24** Asymmetric Mannich-Type Reactions Using Chiral Metal Salt/Strong Base Hybrid Catalyst Systems (Grad. Sch. Sci., The Univ. of Tokyo) ○NOGUCHI, Aika; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1B5-25**[#] Development of Asymmetric Addition Reactions of Alkylazarenes with Imines Using Chiral Metal Salt-Strong Base Hybrid Catalyst Systems (Grad. Sch. Sci., The Univ. of Tokyo) ○CHO, Hyemin; NOGUCHI, Aika; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1B5-26**[#] Development of Polymer-Immobilized Chiral Macrocyclic Crown Ethers and Application to Strong Base-Catalyzed Asymmetric 1,4-Addition Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○KO, Jin Ho; HIRATA, Tsubasa; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1B5-27** Development of Chiral Secondary Amine-Aryl Boronic Acid Cooperative Catalysts for Enantioselective 1,4-Addition of α , β -Unsaturated Carboxylic Acids with Ketones (Grad. Sch. Eng., Nagoya Univ.) ○HAZEYAMA, Takashi; HORIBE, Takahiro; ISHIIHARA, Kazuaki
- 1B5-28** Bronsted Acid-promoted Dehydrative Condensation between Carboxylic Acids and Amines Directed towards the Peptide Synthesis (Grad. Sch. Eng., Nagoya Univ.) ○ISHIKAWA, Tatsuya; HORIBE, Takahiro; ISHIIHARA, Kazuaki

Chair: KONDOH, Azusa (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(1B5-30, 1B5-31, 1B5-32, 1B5-33, 1B5-35)

- 1B5-30**[#] Highly Enantioselective Acyl Rearrangement of Oxindole Derivatives Using Helically Chiral Poly(quinioxaline-2,3-diyl)s Bearing DMAP-Type Pendants (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Takuya; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1B5-31** Decarboxylative aldol reaction of tertiary β -keto-carboxylic acids with trifluoropyruvates as the aldol acceptor (Toyohashi Univ. of Tech.) ○KAWANISHI, Ryouta; HATTORI, Shinya; SHIBATOMI, Kazutaka
- 1B5-32** Enantioselective decarboxylative protonation and deuteration of β -keto-carboxylic acids with chiral amine catalyst (Toyohashi Univ. of Tech.) ○MIZUTANI, Haruna; SHIBATOMI, Kazutaka
- 1B5-33**[#] Development of Catalytic Asymmetric Addition Reactions of Unactivated Alkylarenes with Imines Enabled by Chiral Potassium Bases (Grad. Sch. Sci., The Univ. of Tokyo) ○HIRATA, Tsubasa; SATO, Io; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 1B5-35** Synthesis of Carboxylic Acid Derivatives Using Carbon Dioxide (Grad. Sch. Sci., The Univ. of Tokyo) ○KONDO, Junpei; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Chair: SHIBATOMI, Kazutaka (15 : 00~15 : 50)

* 14:50-15:00: interval for laptop PC connection.(1B5-37, 1B5-39, 1B5-40,

1B5-41)

- 1B5-37**[#] Synthesis of Lactones and Lactams via Sequential trans-Hydroalumination/Carboxylation/Condensation Reactions of Propargyl Alcohols and Amines (Grad. Sch. Sci., The Univ. of Tokyo) ○CHEN, Wenlong; YOO, Woo-jin; KOBAYASHI, Shu
- 1B5-39** Development and Application of Chiral 1,2,3-Triazolium Salts with Halogen Atom (Grad. Sch. Eng., Chiba Univ.) ○FUJIMURA, Tappei; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 1B5-40**[#] Development of Organocatalyzed Umpolung C-C Bond Forming Reactions of Alkynyl Esters (ISIR, Osaka Univ.) ○FURUKAWA, Tomohiro; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 1B5-41** Enantioselective α -oxylation of γ -enolizable α , β -unsaturated aldehydes (Fac. Sci., Univ. of Ryukyus) ○GIMA, Emi; ARIMITSU, Satoru

Chair: TAKIZAWA, Shinobu (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(1B5-43, 1B5-45, 1B5-46, 1B5-47)

- 1B5-43**[#] Reaction of H₂ with mitochondria-relevant metabolites using single-metal-site Ir catalyst (Grad. Sch. Sci., Nagoya Univ.) ○YOSHIOKA, Shota; NIMURA, Sota; NARUTO, Masayuki; SAITO, Susumu
- 1B5-45**[#] Catalytic hydrogenation of mono-carboxylic acid using iridium complexes and its application to di-carboxylic acids (Grad. Sch. Sci., Nagoya Univ.) ○GROEMER, Bendik; YOSHIOKA, Shota; NARUTO, Masayuki; SAITO, Susumu
- 1B5-46** Non-Heme Type Bis(2-pyridylmethyl)glycinamide-Ruthenium-Catalyzed Regio-Selective C-H Hydroxylation (Grad. Sch. Sci., Kyushu Univ.; Fac. Arts and Sci., Kyushu Univ.; I²CNER, Kyushu Univ.) ○DOIUCHI, Daiki; NAKAMURA, Tatsuya; HAYASHI, Hiroki; UCHIDA, Tatsuya
- 1B5-47**[#] Ascorbic Acid Mediated Hydrogen Atom Transfer Hydrogenation of Alkenes by Dual Metal and Photoredox Catalysis (Grad. Sch. Pharm., Hokkaido Univ.) ○KOJIMA, Masahiro; KAMEI, Yuji; SEINO, Yusuke; YAMAGUCHI, Yuto; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeaki

Chair: YOSHINO, Tatsuhiko (17 : 10~18 : 10)

* 17:00-17:10: interval for laptop PC connection.(1B5-50, 1B5-51, 1B5-52, 1B5-53, 1B5-54, 1B5-55)

- 1B5-50** New One-pot Synthesis of α -Alkynyl- α -Trifluoromethyl Alcohols Using the Dual Reactions of Turbo Grignard Reagent (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○KANI, Ryunosuke; INUZUKA, Toshiyasu; KUBOTA, Yasuhiro; FUNABIKI, Kazumasa
- 1B5-51** Asymmetric synthesis of chiral fluoroalkenes with stereospecific nucleophilic substitution of 3-chloro-3-fluoropropenes (Toyohashi Univ. of Tech.) ○KITAHARA, Kazumasa; KAINUMA, Kensei; SHIBATOMI, Kazutaka
- 1B5-52** Visible-light Hydroxyperfluoroalkylation of Styrenes using Enamine as a Catalyst (Grad. Sch. of Humanities & Sci., Ochanomizu Univ.) ○OFUJI, Yu; YAJIMA, Tomoko
- 1B5-53** Synthesis of multiply-substituted epoxides bearing a trifluoromethyl group by taking advantage of Al-F interactions (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○FUJIMORI, Yuji; KASHIKURA, Wataru; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio
- 1B5-54** Asymmetric fluorination of β -ynone esters using phase-transfer catalyst (Fac. Sci., Univ. of Ryukyus) ○IWASA, Satsuki; ARIMITSU, Satoru
- 1B5-55** diastereoselective synthesis of γ , γ -disubstituted α , α -difluoro- γ -butyrolactones (Grad. Sch. Eng. Sci., Univ. of Ryukyus) ○ISHIKAWA, Tatsuro; ARIMITSU, Satoru

Monday, March 23, AM

Chair: ASANO, Keisuke (9 : 30 ~10 : 30)

* 9:20-9:30: interval for laptop PC connection.(2B5-04, 2B5-06, 2B5-07, 2B5-08)

- 2B5-04**^{*} Stereochemistry of Etherification of Tertiary α -Haloamides with Tertiary Alcohols (Yamaguchi Univ.) ○HIRATA, Goki; TAKEUCHI, Kentarou; SHIMOHARAI, Yusuke; TERANISHI, Saya; KAIZAWA, Hazuki; NOKAMI, Toshiki; KOIKE, Takashi; NISHIKATA, Takashi
- 2B5-06** Boron Lewis Acid-Assisted Chiral Phosphoric Acid Catalysts for Multiselective Diels-Alder Reaction (Grad. Sch. Eng., Nagoya Univ.) ○MATSUI, Kai; TOH, Kouhei; HATANO, Manabu; ISHIIHARA, Kazuaki
- 2B5-07**[#] Boron Lewis Acid-Assisted Chiral Phosphoric Acid Catalysts for Enantioselective Carbonyl-Ene Cyclization/Acetalization (Grad. Sch. Eng., Nagoya Univ.) ○HUANG, Jianhao; MOCHIZUKI, Takuya; HATANO, Manabu; ISHIIHARA, Kazuaki
- 2B5-08**[#] Catalytic Acceptorless Dehydrogenation of Aliphatic Alcohols (Grad. Sch. Pharm., The Univ. of Tokyo) ○FUSE, Hiromu; MITSUNUMA, Harunobu; KANAI, Motomu

Chair: KOIKE, Takashi (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(2B5-11, 2B5-13, 2B5-14, 2B5-15, 2B5-16)

- 2B5-11**[#] Enantio- and Site-selective α -Fluorination Reaction of *N*-Acyl-3,5-Dimethylpyrazoles Catalyzed by Chiral π -Cu(II) Complexes (Grad. Sch. Eng., Nagoya Univ.) ○NISHIMURA, Kazuki; YAMAKAWA, Katsuya; ISHIIHARA, Kazuaki

- 2B5-13** Enantioselective Aza-Friedel-Crafts Reaction of Pyrroles and Indoles Catalyzed by Chiral C1-Symmetric Bis(phosphoric acid) (Grad. Sch. Eng., Nagoya Univ.) ○TOH, Kohei; HATANO, Manabu; ISHIHARA, Kazuaki
- 2B5-14** Catalytic Asymmetric Cyanation of Acylsilanes (Grad. Sch. Eng., Kyoto Univ.) ○YOSHIZAKI, Ryotaro; ASANO, Keisuke; MATSUBARA, Seijiro
- 2B5-15** Catalytic Asymmetric Cyanation of *o*-Quinone Monoacetals (Grad. Sch. Eng., Kyoto Univ.) ○TOKUYAMA, Daiya; MURATA, Ryuichi; ASANO, Keisuke; MATSUBARA, Seijiro
- 2B5-16** Catalytic Asymmetric Cycloetherification of Propargyl Alcohols (Grad. Sch. Eng., Kyoto Univ.) ○MURATA, Ryuichi; ASANO, Keisuke; MATSUBARA, Seijiro

Monday, March 23, PM

Chair: IKEUCHI, Kazutada (12 : 50~13 : 50)

- * 12:40-12:50: interval for laptop PC connection.(2B5-24, 2B5-25, 2B5-26, 2B5-27, 2B5-28, 2B5-29)
- 2B5-24** Asymmetric Mannich-type reaction of malononitrile with α -ketiminoesters using halogen-bond donor catalyst (Grad. Sch. Sci., Chiba Univ.) ○NISHIDA, Yuki; KUWANO, Satoru; ARAI, Takayoshi
- 2B5-25[#]** Asymmetric vinylogous Michael reaction between α , β -unsaturated aldehyde and 2-acetylcyclohexenone catalyzed by organocatalyst (Grad. Sch. Sci., Tohoku Univ.) ○SUGA, Yurina; UMEKUBO, Nariyoshi; HAYASHI, Yujiro
- 2B5-26[#]** Development of polymer supported diphenylprolinol type organocatalyst (Sch. Sci., Tohoku Univ.) ○HATTORI, Shusuke; KOSHINO, Seitaro; UOZUMI, Yasuhiro; HAYASHI, Yujiro
- 2B5-27** Generation and amplification of enantioenriched α -aminonitrile induced by chiral secondary alcohols: Highly enantioselective Strecker synthesis (Fac. Sci., TUS) ○KUBO, Hiroki; KAWASAKI, Tsuneomi
- 2B5-28** Asymmetric Synthesis of 4-Methylbenzhydrylamine and Its Use for Stereoselective Strecker Synthesis of Aliphatic Aminonitriles (Fac. Sci., TUS) ○SEKI, Masanao; IKEDA, Gou; KAWASAKI, Tsuneomi
- 2B5-29** Chiral cyanohydrin catalyzed enantioselective Strecker reaction followed by the asymmetric amplification of resulting α -aminonitrile (Fac. Sci., TUS) ○KOBAYASHI, Ryota; KAWASAKI, Tsuneomi

Chair: NISHIMOTO, Yoshihiro (14 : 00~15 : 10)

- * 13:50-14:00: interval for laptop PC connection.(2B5-31, 2B5-32, 2B5-34, 2B5-35, 2B5-36)
- 2B5-31** synthesis of bicyclo[2.2.1]heptane compounds by using the reactivity of bis-silyl enol ether in a 5-membered ring (Sch. Sci., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○SASAGE, Tomonari; FUJI, Ryo; IKEUCHI, Kazutada; TANINO, Keiji
- 2B5-32*** Design and Synthesis of Planar-chiral Glycine Derivative (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○YOSHIDA, Yuki; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 2B5-34** Asymmetric Esterification of Racemic of 2-Hydroxyarylketones Using MA-BTM Combined System and Determination of the Transition Structures at Enantio-discrimination Step (Fac. Sci., TUS) ○MURATA, Takatsugu; NAKATA, Kenya; SHIINA, Isamu
- 2B5-35** Dynamic Asymmetric Esterification of a Mixture of Stereoisomers of Naphthylidipropanoic Acid Using MA-BTM Combined System (Fac. Sci., TUS) MURATA, Takatsugu; ○TAKAMA, Manami; NAKATA, Kenya; SHIINA, Isamu
- 2B5-36[#]** Asymmetric Synthesis of Multi-functionalized Cyclic Silanes (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○KUROO, Akihiro; IGAWA, Kazunobu; TOMOOKA, Katsuhiko

Chair: IGAWA, Kazunobu (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2B5-39, 2B5-40, 2B5-42, 2B5-43, 2B5-44)
- 2B5-39** Zwitterionic 1,2,3-Triazolium Amidate as a Catalyst for Photoinduced Hydrogen-Atom Transfer Radical Alkylation (Grad. Sch. Eng., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○SUZUKI, Ryuhei; OHMATSU, Kohsuke; OOI, Takashi
- 2B5-40[#]** Development of highly stereoselective [3+2] cycloaddition using a chiral iridium borate salt (Grad. Sch. Eng., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○KIMURA, Yuto; URAGUCHI, Daisuke; OOI, Takashi
- 2B5-42** Catalytic Asymmetric Cyanoalkylation of Electron-Deficient Olefins (Grad. Sch. Eng., Nagoya Univ.) ○MORITA, Yusuke; OHMATSU, Kohsuke; OOI, Takashi
- 2B5-43** Photoredox-Catalyzed Transformation of a C-F Bond at the Benzylic Position in Perfluoroalkylarenes Using Organostannane Compounds (Grad. Sch. Eng., Osaka Univ.) SUZUKI, Kensuke; ○SUGIHARA, Naoki; NISHIMOTO, Yoshihiro; YASUDA, Makoto
- 2B5-44** Intermolecular Coupling Reaction of Bis(silyl)imines with Electron-Rich Alkenes through Photo-Induced Electron Transfer Process. (Fac. Sci., Gakushuin Univ.) ○ISHIYAMA, Yoshiki; ISHIDA, Kento; KUSAMA, Hiroyuki

Chair: IKEUCHI, Kazutada (16 : 30~17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2B5-46, 2B5-47, 2B5-48, 2B5-49, 2B5-50, 2B5-51)

- 2B5-46** Cu-catalyzed [1,3]-alkoxy rearrangement-Diels-Alder cascade (Grad. Sch. Sci., Tohoku Univ.) ○MASUKAWA, Kazuki; ISHIDA, Yasuhiro; NAKAMURA, Itaru; TERADA, Masahiro
- 2B5-47** Cross Tishchenko Reaction Catalyzed by Metallic Zinc (Fac. Sci., Gakushuin Univ.) ○MINAMIDATE, Hikaru; MIYAGAWA, Masamichi; AKIYAMA, Takahiko
- 2B5-48** One-pot constructions of octahydro-4,7-ethanobenzofuran-9-one skeletons using bicyclic zinc enolate (Sch. Pharm., Iwate Med. Univ.; ISIR, Osaka Univ.) ○TSUJIHARA, Tetsuya; SAKAOKA, Daisuke; KAWAMURA, Ayaka; TAMURA, Satoru; TAKEHARA, Tsunayoshi; SUZUKI, Takeyuki; KAWANO, Tomikazu
- 2B5-49** Synthesis of tetrafluoroethylenated acetylene derivatives utilizing novel organozinc reagent (KIT) ○KATAOKA, Takuto; KAJIMOTO, Chihiro; YAMADA, Shigeyuki; KONNO, Tsutomu
- 2B5-50** Efficient accesses to various nitrogen-heterocycles having a tetrafluoroethylene fragment (KIT) ○KAGEYAMA, Shota; MORISHITABARA, Suguru; YAMADA, Shigeyuki; KONNO, Tsutomu
- 2B5-51** Synthesis of 1,4-bis(fluoroalkyl)buta-1,3-diene derivatives based on dimerization of fluorine-containing alkynes (KIT) ○KISHIMOTO, Naoto; KUMON, Tatsuya; YAMADA, Shigeyuki; KONNO, Tsutomu

Tuesday, March 24, AM

Chair: SAITO, Kodai (9 : 00~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(3B5-01, 3B5-02, 3B5-03, 3B5-05, 3B5-06, 3B5-07)
- 3B5-01** Hofmann-Löffler-Freytag Reaction of Sulfonamides Using Aniline-type Hypervalent iodine (III) Compounds (Grad. Sch. Sci., Chiba Univ.; Grad. Sch. Sci. Eng., Chiba Univ.) ○NISHIGUCHI, Yuna; MORIYAMA, Katsuhiko
- 3B5-02** Withdrawn
- 3B5-03[#]** Ammonium Hypoiodite-Catalyzed Oxidative Umpolung of Indoles Towards Synthesis of Alkaloids (Grad. Sch. Eng., Nagoya Univ.) ○TANAKA, Hiroki; UKEGAWA, Naoya; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3B5-05** Chiral Organiodine(III)-Catalyzed Enantioselective Oxidative Biaryl Coupling Reactions (Grad. Sch. Eng., Nagoya Univ.) ○ISHIZAKI, Shinichi; TANAKA, Hiroki; UYANIK, Muhammet; ISHIHARA, Kazuaki
- 3B5-07** Introduction of Nitrogen Functional Groups to Electron-deficient Olefins Utilizing *N*-Bromosulfonamides (Grad. Sch. Eng., Osaka Univ.) ○KAKIZAKI, Yuuka; MINAKATA, Satoshi

Chair: MORIYAMA, Katsuhiko (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(3B5-09, 3B5-10, 3B5-11, 3B5-12, 3B5-13, 3B5-14)
- 3B5-09** Microwave Enhancement on Nazarov Cyclization (Fac. Sci. Tech., Keio Univ.) ○KUBOTA, Yusuke; KAWANORI, Tatsuki; SAWADA, Taichi; SAITO, Kodai; YAMADA, Tohru
- 3B5-10** Synthetic study of RiccardinC using one-pot tandem coupling reactions (Tokushima Univ.) ○KOBATAKE, Miho; OHMURA, Satoshi; MIYOSHI, Norikazu; UENO, Masaharu
- 3B5-11** Synthesis and Analysis of Dynamic Chiral α , β -Unsaturated Carbonyl Compounds (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○IMOTO, Yuki; MUTAGUCHI, Misaki; KAMIKUBO, Ryota; KAWASAKI, Yuuya; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3B5-12** Stereochemical Study on Dynamic Chiral 7-Oxo-8-hetera[5]helicene (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) KAWASAKI, Yuuya; ○KUMEGAWA, Yuuta; KAMIKUBO, Ryota; IGAWA, Kazunobu; TOMOOKA, Katsuhiko
- 3B5-13** Direct formation of cyclophanes by an aromatic electrophilic substitution utilizing characteristic of acetylene cobalt complex. (Sch. Adv. Eng., Kogakuin Univ.) ○HIRAO, Reo; NAGATA, Masahiro; SAKATA, Yuki; YASUI, Eiko; NAGUMO, Shinji
- 3B5-14** Novel Tandem Cyclization Using Aminoaldehyde and Homocinnamyl Alcohol (Kogakuin Univ.) ○YANO, Kaede; NAGUMO, Shinji; SAKATA, Yuki; YASUI, Eiko; KOBAYASHI, Ikuto

Chair: YASUI, Eiko (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(3B5-16, 3B5-17, 3B5-19, 3B5-20)
- 3B5-16[#]** Perylene photoredox catalyst-promoted desulfonylation of ethenyl sulfones (Fac. of Eng., Okayama Univ. of Sci.) ○ORITA, Akihiro; WATANABE, Hikaru; NAKAJIMA, Kazuki; EDAGAWA, Ryota; OKUDA, Yasuhiro; WAKAMATSU, Kan
- 3B5-17*** Development of Synthesis of Asymmetric Disubstituted Bicyclo[1.1.1]pentane (Grad. Sch. Pharm., The Univ. of Tokyo) ○KANAZAWA, Junichiro; UCHIYAMA, Masanobu
- 3B5-19** Use of sunlight and its efficiency for the construction of radical C-C bonds between alcohols and olefins (Coll. Sci. Tech., Nihon Univ.) ○HATAYAKAWA, Mamiko; UCHIDA, Kou; YAMADA, Ryuusei; AOYAMA, Tadashi
- 3B5-20[#]** Palladium- and Photoredox-Catalyzed Alkylation-Cyclization Reac-

tions of Iodoalkylalkenes with 4-Alkyl-1,4-dihydropyridines (Grad. Sch. Eng., The Univ. of Tokyo) ○ZHANG, Yulin; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

Tuesday, March 24, PM

Chair: NAKAJIMA, Kazunari (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3B5-29, 3B5-30, 3B5-31, 3B5-33, 3B5-34)
- 3B5-29** Development of a catalytically active quinone methide for hydride abstracting reaction (Grad. Sch. Eng., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○KATO, Kohsuke; URAGUCHI, Daisuke; OOI, Takashi
- 3B5-30** Synthesis and Reactivity of a Benzophosphetanium Salt (Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○OTA, Masato; KATO, Kohsuke; KANSAKU, Yaoki; URAGUCHI, Daisuke; OOI, Takashi
- 3B5-31[#]** Divergence in Photoredox Reaction: Radical Addition of α -Bromo Nitroalkanes to Styrene Derivatives (Grad. Sch. Eng., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○TSUCHIYA, Yuto; ONAI, Ryota; URAGUCHI, Daisuke; OOI, Takashi
- 3B5-33** Electrophilic Alkylation of Alkenes using Lewis acid and base (Grad. Sch. Eng., Tohoku Univ.) ○TSUGA, Ryoto; KUNISAWA, Tsukasa; TANAKA, Shinya; HATTORI, Tetsutaro
- 3B5-34** A computational approach to design a novel guanidine-urea bifunctional organocatalyst and analyze transition states in asymmetric epoxidation of disubstituted 1,4-naphthoquinones (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ORIHARA, Tatsuya; HOSOYA, Keisuke; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro; ODAGI, Minami; NAGASAWA, Kazuo

Room B6

Lecture Hall Bldg. K206

Physical Organic Chemistry Structures and Properties

Sunday, March 22, PM

Molecular Assembly

Chair: MIYATAKE, Tomohiro (14 : 20~15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(1B6-33, 1B6-35, 1B6-36)
- 1B6-33[#]** Protein responsive protein release of supramolecular / covalent polymer hydrogel composite (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURA, Keisuke; KUBOTA, Ryo; SHIGEMITSU, Hajime; MATSUZAKI, Tomonobu; MINAMI, Saori; URAYAMA, Kenji; HAMACHI, Itaru
- 1B6-35** Development and properties of supramolecular / polymer composite gels (Sch. Eng., Kyoto Univ.) ○SADA, Kei; NAKAMURA, Keisuke; KUBOTA, Ryou; HAMACHI, Itaru
- 1B6-36[#]** Guest-adaptive molecular recognition by a double-walled coordination cage (Grad. Sch. Eng., The Univ. of Tokyo) ○TAMURA, Yukari; TAKEZAWA, Hiroki; FUJITA, Makoto

Chair: YAMADA, Teppei (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(1B6-39)
- 1B6-39[#] Special Lecture** Supramolecular Free Radicals (Tsinghua Univ.) ○ZHANG, Xi

Chair: KUBOTA, Ryou (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(1B6-45, 1B6-46, 1B6-47, 1B6-48)
- 1B6-45** Improved performance of thermoelectric cells based on the hydrogen- or halogen-bonding interactions with chloranil (Grad. Sch. Eng., Kyushu Univ.) ○INOUE, Hirotsuka; YAMADA, Teppei; KIMIZUKA, Nobuo
- 1B6-46[#]** The Use of Deep Eutectic Solvent for High-Temperature Operation of Thermocells and the Interaction of Redox Couples with the Solvent (Fac. Eng., Kyushu Univ.) ○ANTARIKSA, Naura Fakhira; YAMADA, Teppei; KIMIZUKA, Nobuo
- 1B6-47** Development of an electrochemical Peltier refrigeration element utilizing host-guest interactions (Fac. Eng., Kyushu Univ.) ○MATOBA, Fumitoshi; YAMADA, Teppei; KIMIZUKA, Nobuo
- 1B6-48** Preparation and function of nano- and microstructures composed of various types of γ -cyclodextrin assemblies (Grad. Sch. Eng., Osaka Univ.) ○KITAGUCHI, Ryo; SHIGEMITSU, Hajime; TOHNAI, Norimitsu; KIDA, Toshiyuki

Chair: TAKEZAWA, Hiroki (17 : 10~18 : 00)

- * 17:00-17:10: interval for laptop PC connection.(1B6-50)
- 1B6-50[#] Special Lecture** Supramolecular Latches: a New Tool for Chemistry, Biology and Materials Science (POSTECH) ○KIM, Kimoon

Chair: SHIGEMITSU, Hajime (18 : 10~18 : 50)

- * 18:00-18:10: interval for laptop PC connection.(1B6-56, 1B6-57, 1B6-58, 1B6-59)
- 1B6-56** Synthesis and Aggregation Behavior of Chlorophyll Derivatives Possessing Different Alkyl Chains at the 3- and 17-Positions (Fac. Sci. Tech., Ryukoku Univ.) ○INOUE, Ryo; MIYATAKE, Tomohiro
- 1B6-57** Synthesis and self-aggregation of zinc 3-hydroxymethylchlorins possessing long-alkyl ester groups at the 7- and 17-positions (Fac. Sci. Tech., Ryukoku Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○YUASA, Takafumi; TAMIAMI, Hitoshi; MIYATAKE, Tomohiro
- 1B6-58** Control of seeds formation allows two distinct self-sorting patterns of supramolecular nanofibers (Grad. Sch. Eng., Kyoto Univ.) ○NAGAO, Kazutoshi; KUBOTA, Ryo; TANAKA, Wataru; HAMACHI, Itaru
- 1B6-59** The molecular design of self-assembled peptides for liquid-liquid phase separation (Sch. Eng., Kyoto Univ.) ○HATTORI, Yoshiyuki; KUBOTA, Ryou; HAMACHI, Itaru

Monday, March 23, AM

Supramolecular polymer

Chair: OGI, Soichiro (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2B6-01, 2B6-02, 2B6-03, 2B6-05)
- 2B6-01** Supramolecular polymers exhibiting different fluorescence properties depending on their topology (IGPR, Chiba Univ.) ○TAKAHASHI, Sho; YAGAI, Shiki
- 2B6-02** Catenation of Toroidal Supramolecular Polymers (Grad. Sch. Sci. Eng., Chiba Univ.) ○KATO, Yasuki; DATTA, Sougata; YAGAI, Shiki
- 2B6-03[#]** A supramolecular polymer paves way to nanocatenanes (IGPR, Chiba Univ.) ○DATTA, Sougata; KATO, Yasuki; YAGAI, Shiki
- 2B6-05[#]** Helicoidal nanostructures through the cooperation of integrative self-sorting and supramolecular polymerization (IGPR, Chiba Univ.) ○ARATSU, Keisuke; YAGAI, Shiki

Chair: IIDA, Hiroki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2B6-08, 2B6-09, 2B6-10, 2B6-11, 2B6-12, 2B6-13)
- 2B6-08** Soft and hard supramolecular polymers obtained by control over a hydrogen-bond-directed pathway complexity (IGPR, Chiba Univ.) ○ISOBE, Atsushi; PRABHU, Deepak. D; YAGAI, Shiki
- 2B6-09** Hydrogen-Bond-Directed Supramolecular Polymorphs Affording Distinct Fluorescent Properties (IGPR, Chiba Univ.) ○AIZAWA, Takumi; YAGAI, Shiki
- 2B6-10** Effect of Amide Group on the Self-assembly of Nanotube-Forming Scissors-Shaped Azobenzene Dyad (IGPR, Chiba Univ.) ○SAITO, Takuho; YAGAI, Shiki
- 2B6-11** Effect of perfluoroalkyl chain on the Self-assembly of V-Shaped Azobenzene Dyad (IGPR, Chiba Univ.) ○ARIMA, Hironari; YAGAI, Shiki
- 2B6-12** Syntheses and evaluation of novel Ambidextrous gelators based on molecular design. (Grad. Sch. Eng., KIT) ○HASHIMURA, Daiki; TSUGE, Akihiko; ARAKI, Kozi
- 2B6-13** Construction of novel on-off gelation system using a dynamic covalent bonding (Grad. Sch. Eng., KIT) ○NAKANO, Masaki; TSUGE, Akihiko; ARAKI, Kozi

Chair: YAGAI, Shiki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2B6-15, 2B6-18, 2B6-19, 2B6-20)
- 2B6-15[#] Young Scholar Lectures of CSJ** Life-inspired multicomponent supramolecular hydrogels (Grad. Sch. Eng., Kyoto Univ.) ○KUBOTA, Ryou
- 2B6-18** Structure and Property of Chiral Supramolecular Gel Formed by Carbamoylated Riboflavin and Melamine Derivative (Fac. Sci. Eng., Shimane Univ.) ○KOZAKO, Ryo; NITTA, Takahiro; IIDA, Hiroki
- 2B6-19** Living supramolecular polymerization of D-A-D-type fluorescent dyes and its fluorescence imaging (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○IMAI, Yoshiki; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 2B6-20** Binding Behavior of Peryleneimide Derivatives on Chiral Self-Assembled Nanofibers (Grad. Sch. Mat. Sci., NAIST) ○YONEZAWA, Shumpei; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

Monday, March 23, PM

Chair: HISAKI, Ichiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2B6-28, 2B6-29, 2B6-30, 2B6-32, 2B6-33)
- 2B6-28** Effects of chirality of amino acid on seeded supramolecular polymerization of amino-acid-based diamide dimer (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○TAKAMATSU, Aiko; MATSUMOTO, Kentaro; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 2B6-29** Supramolecular helical polymerization driven by molecular association of dumbbell-shaped fullerene and chiral tetrakis calix[5]arene host. (Grad. Sch. Sci., Hiroshima Univ.) ○IWABE, Yoshiki; HAINO, Takeharu

2B6-30[#] Supramolecular Polymerization of Chiral [4 π]annulene Derivatives (1): Stereochemically Alternating Copolymerization (Grad. Sch. Eng., The Univ. of Tokyo) ○UEDA, Michihisa; AOKI, Tsubasa; AKIYAMA, Takayoshi; AIDA, Takuzo; ITOH, Yoshimitsu

2B6-32[#] Supramolecular Polymerization of Chiral [4 π]annulene Derivatives (2): Photo-Induced Supramolecular Polymerization based on Excited-State Aromaticity (Grad. Sch. Eng., The Univ. of Tokyo) ○AOKI, Tsubasa; UEDA, Michihisa; AIDA, Takuzo; ITOH, Yoshimitsu

2B6-33[#] Oligothiophene-Based Chiral Crosslinkers toward Functionalization of Plasmonic Nano-gaps for Photochemical Reactions (Grad. Sch. Eng., The Univ. of Tokyo) ○AOKI, Tsubasa; UEDA, Michihisa; AIDA, Takuzo; ITOH, Yoshimitsu

Chair: ITOH, Yoshimitsu (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2B6-35, 2B6-36, 2B6-37, 2B6-38, 2B6-39)

2B6-35 An Anthracene-based V-shaped Amphiphile: Saccharide Modification and Self-assembly (Lab. Chem. Life Sci., Tokyo Tech.) ○NARITA, Haruna; CATTI, Lorenzo; YOSHIZAWA, Michito; AKITA, Munetaka

2B6-36 An Anthracene-based V-shaped Amphiphile: Oligomerization and Stabilized Assembly (Lab. Chem. Life Sci., Tokyo Tech.) ○TSUCHIDA, Yamato; HANAFUSA, Mamiko; YOSHIZAWA, Michito; AKITA, Munetaka

2B6-37 Kinetic supramolecular self-assemblies driven by proton gradient and investigation of their mechanisms (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○KANZAKI, Chisako; INAGAWA, Arinori; FUKUHARA, Gaku; OKADA, Tetsuo; NARUSHIMA, Tetsuya; OKAMOTO, Hiromi; NUMATA, Munenori

2B6-38 Control the induction of intermolecular interaction and structures of supramolecule by way of fluidic energy in microflow (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ.) ○MATOBA, Shota; INAGAWA, Arinori; FUKUHARA, Gaku; OKADA, Tetsuo; NARUSHIMA, Tetsuya; OKAMOTO, Hiromi; NUMATA, Munenori

2B6-39[#] Kinetic Control over Helical Supramolecular Polymerization Based on Diamide-functionalized Planarized Triarylboranes (WPI-ITbM, Nagoya Univ.) ○CHOI, Heekyoung; ANDO, Naoki; OGI, Soichiro; YAMAGUCHI, Shigehiro

Chair: NUMATA, Munenori (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2B6-42, 2B6-43, 2B6-45, 2B6-46)

2B6-42 Control Over Self-Assembly Pathway of Helicene Possessing Tris (phenylisoxazolyl) Moieties (Grad. Sch. Sci., Hiroshima Univ.) ○ONO, Yudai; HAINO, Takeharu

2B6-43[#] Multiple thermo-responsiveness derived from supra-molecular complex formation between TADDOL moieties of polymer side chains and a guest molecule (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○NAYA, Masami; KOKADO, Kenta; SADA, Kazuki

2B6-45 Control of the aspect ratio of supramolecular nanosheets (RCFM, NIMS) ○SASAKI, Norihiko; FUKUI, Tomoya; TAKEUCHI, Masayuki; SUGIYASU, Kazunori

2B6-46[#] Supramolecular Archimedes' Spiral and Concentric Nanoring (RCFM, NIMS; Grad. Sch. Eng., Kyushu Univ.) ○SASAKI, Norihiko; TAKEUCHI, Masayuki; SUGIYASU, Kazunori

Chair: KOKADO, Kenta (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2B6-49, 2B6-50, 2B6-51)

2B6-49 Construction of Hydrogen-bonded Organic Frameworks Based on Dibenzo[g,p]chrysene Derivative. (Sch. Eng., Osaka Univ.; RIES, Hokkaido Univ.) ○SUZUKI, Yuto; HISAKI, Ichiro; TOHNAI, Norimitsu

2B6-50[#] Fluorinated Porous Cages - Properties and Reactivity (HHU Dusseldorf) ○SCHMIDT, Bernd M.

2B6-51* Generation of Porous Crystal of Triaryltriazine Derivative Based on CH- π Interaction (Grad. Sch. Eng., Osaka Pref. Univ.; Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Rigaku Corp.) ○OHTA, Eisuke; IZUMI, Haruka; YASUZAWA, Eriko; MATSUI, Yasunori; SATO, Hiroyasu; IKEDA, Hiroshi

Tuesday, March 24, AM

Self-Assembly

Chair: TAKAI, Atsuro (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3B6-01, 3B6-03, 3B6-04, 3B6-05, 3B6-06)

3B6-01* Aggregation-Induced Emission of Supramolecular Polymers Formed by Hydrogen Bonding of Barbituric Acids (IGPR, Chiba Univ.) ○OUCHI, Hayato; YAGAI, Shiki

3B6-03 π -conjugated molecules exhibiting aggregation-induced emission by supramolecular polymerization (IGPR, Chiba Univ.) ○KAWAURA, Maika; OUCHI, Hayato; YAGAI, Shiki

3B6-04 Self-assembly of oligoproline with reversible bonds: construction of entangled molecular structures (Grad. Sch. Eng., The Univ. of Tokyo) ○HISADA, Yutarō; SAWADA, Tomohisa; FUJITA, Makoto

3B6-05[#] The effect of isotope and polarizability on dispersion interactions in

water (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○JIANG, Qichun; ZHAN, Yiyang; ISHII, Kentaro; KOIDE, Takuya; KOBAYASHI, Osamu; KOJIMA, Tatsuo; TAKAHASHI, Satoshi; TACHIKAWA, Masanori; UCHIYAMA, Susumu; HIRAOKA, Shuichi

3B6-06 Theoretical study on changing volume of self-assembled nanocube by neutral, anion molecules (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○TAKUYA, Ikeda; OSAMU, Kobayashi; ZHAN, Yiyang; SHUICHI, Hiraoka; MASANORI, Tachikawa

Chair: SAWADA, Tomohisa (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3B6-08, 3B6-09, 3B6-10, 3B6-12)

3B6-08[#] Reversible structural transformation of a porous metal-macrocycle framework induced by recognition of cyclic ethers (Grad. Sch. Sci., The Univ. of Tokyo) ○HAYASHI, Ryunosuke; TASHIRO, Shohei; SHIONOYA, Mitsuhiko

3B6-09 Anisotropic expansion and asymmetric deformation of a porous metal-macrocycle framework driven by alcohol encapsulation (Grad. Sch. Sci., The Univ. of Tokyo) ○ASAKURA, Masahiro; TASHIRO, Shohei; MITSUI, Shinya; SHIONOYA, Mitsuhiko

3B6-10[#] Quantitative self-assembly of a Pd₂L₄ cage under kinetic control (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TATEISHI, Tomoki; TAKAHASHI, Satoshi; OKAZAWA, Atsushi; MARTI-CENTELLES, Vicente; WANG, Jianzhu; KOJIMA, Tatsuo; LUSBY, Paul J.; SATO, Hirofumi; HIRAOKA, Shuichi

3B6-12[#] The faster the better: selection of the self-assembly product by the use of a kinetic template anion (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKESHIGE, Leonardo Hayato; TAKAHASHI, Satoshi; TATEISHI, Tomoki; SEKINE, Ryosuke; OKAZAWA, Atsushi; ZHU, Wenchao; KOJIMA, Tatsuo; HARANO, Koji; NAKAMURA, Eiichi; SATO, Hirofumi; HIRAOKA, Shuichi

Chair: NABESHIMA, Tatsuya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3B6-15)

3B6-15[#] CSJ Award for Creative Works Study on Molecular Self-assembly Processes and Development of Discrete Molecular Self-Assemblies Based on Dispersion Force (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HIRAOKA, Shuichi

Tuesday, March 24, PM

Supramolecular Complex

Chair: SAKATA, Yoko (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3B6-28, 3B6-29, 3B6-30, 3B6-32, 3B6-33)

3B6-28[#] Self-assembly processes of Pd₆L₃ prisms (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ZHANG, Xinman; TAKAHASHI, Satoshi; KOJIMA, Tatsuo; HIRAOKA, Shuichi

3B6-29 Self-assembly processes of Pd₆L₄ cages (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIYAZAKI, Shotaro; TAKAHASHI, Satoshi; KOJIMA, Tatsuo; HIRAOKA, Shuichi

3B6-30[#] Synthesis of Dipyrrolyldiketone Pt^{II} Complexes as New Anion-Responsive π -Electronic Systems (Coll. Life Sci., Ritsumeikan Univ.) ○KUNO, Atsuko; HIRATA, Goki; KOBAYASHI, Yoichi; MAEDA, Hiromitsu

3B6-32 Synthesis of Dipyrrolyldiketone Pt^{II} Complexes by Modification of π -Electronic Ligands (Coll. Life Sci., Ritsumeikan Univ.) MAEDA, Hiromitsu; KOMATSU, Kaifu; HAKETA, Yohei

3B6-33 Self-assembly behaviors of a triple-helical complex utilizing Schiff base formation (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○ISHIHARA, Takuma; CHIBA, Yusuke; NABESHIMA, Tatsuya

Chair: TASHIRO, Shohei (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3B6-35, 3B6-36, 3B6-37, 3B6-39)

3B6-35 An Anthracene-based Coordination Capsule: Recognition and Volatilization Control of Monoterpenes (Lab. Chem. Life Sci., Tokyo Tech.) ○SUMIDA, Ryuki; NIKI, Keita; YOSHIZAWA, Michito; AKITA, Munetaka

3B6-36 An Anthracene-based Coordination Capsule with a Compressed Cavity: Encapsulation and Inversion Motion (Lab. Chem. Life Sci., Tokyo Tech.) ○KISHIDA, Natsuki; MATSUMOTO, Kyosuke; YOSHIZAWA, Michito; AKITA, Munetaka

3B6-37[#] Anthracene-based Coordination Capsules: Host-Property Alterations Induced by Fourfold CH/N Exchange (Lab. Chem. Life Sci., Tokyo Tech.) ○CATTI, Lorenzo; DOBASHI, Hiroki; TANAKA, Yuya; YOSHIZAWA, Michito; AKITA, Munetaka

3B6-39[#] Highly Enantioselective Synthesis of Chiral Mercury Sulfide Nanoparticles (Grad. Sch. Mat. Sci., NAIST) ○KUNO, Jumpei; KAWAI, Tsuyoshi; NAKASHIMA, Takuya

Chair: NAKASHIMA, Takuya (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3B6-42, 3B6-43, 3B6-44,

- 3B6-45, 3B6-46, 3B6-47)
3B6-42 Ion-Pairing Assemblies Based on Charged Porphyrins (Coll. Life Sci., Ritsumeikan Univ.) ○TANAKA, Hiroki; HAKETA, Yohei; MAEDA, Hiromitsu
3B6-43 Self-aggregation and synthesis of zinc chlorophylla derivatives bearing a BODIPY moiety in the 17-substituent (Coll. Life Sci., Ritsumeikan Univ.) TAMIYAKI, Hitoshi; ○NAKAMURA, Yugo
3B6-44 Construction of chlorophyll self-aggregates by photoactivated assembly (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○MATSUBARA, Shogo; TAMIYAKI, Hitoshi
3B6-45 Functionalization of metal oxide surfaces with insulated conjugated anchor molecules (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○CHOU, Sheng-ying; MASAI, Hiroshi; TERAJO, Jun
3B6-46 Synthesis of Dissymmetric Complexes Composed of C_{3v} -symmetric Macrocyclic Dipyrin Trimers (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○MASUMOTO, Masaki; MATSUOKA, Ryota; NABESHIMA, Tatsuya
3B6-47 Synthesis of Cyclic Dipyrin Oligomers with 2,2'-Bipyridine Moieties and Their BODIPY Derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○SERIZAWA, Kohei; CHIBA, Yusuke; NABESHIMA, Tatsuya

Chair: TERAJO, Jun (17 : 00~18 : 00)

- * 16:50-17:00: interval for laptop PC connection.(3B6-49, 3B6-50, 3B6-51, 3B6-52, 3B6-53, 3B6-54)
3B6-49 Chiral-Self discrimination in multistep self-assembly of carbazole ligands (Fac. Sci., TUS) ○OGATA, Daiji; YUASA, Junpei
3B6-50 Coordination cage from nonsymmetric ligands having a benzene spacer (Fac. Sci., TUS) ○TAKEUCHI, Ryota; YUASA, Junpei
3B6-51 Optical resolution of Ag₂₉ nanocluster with achiral ligands using high-performance liquid chromatography (Grad. Sch. Mat. Sci., NAIST) ○YOSHIDA, Hiroto; EHARA, Masahiro; KAWAI, Tsuyoshi; NAKASHIMA, Takuya
3B6-52 Chiral amplification in silver nanoclusters (Grad. Sch. Mat. Sci., NAIST) ○NAKASHIMA, Takuya; OKUMIYA, Ryuta; YOSHIDA, Hiroto; KAWAI, Tsuyoshi
3B6-53 Helicity Control of Amphiphilic Chiral Salen Complexes by Mechanical Compression at the Air-Water Interface (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.; RCFM, NIMS; MANA, NIMS; Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○TAKAHASHI, Mizuho; SAKATA, Yoko; NAKANISHI, Waka; MORI, Taizo; ARIGA, Katsuhiko; AKINE, Shigehisa
3B6-54 Coordination-driven polymerization of optically-active dirhodium complexes with dynamic propeller chirality and chiral amplification (Grad. Sch. Eng., Nagoya Univ.) ○OKUDA, Shogo; ISHIDA, Riku; IWATA, Takuya; URUSHIMA, Akio; OUSAKA, Naoki; IKAI, Tomoyuki; YASHIMA, Eiji

Wednesday, March 25, AM

Molecular Machine

Chair: MATSUNO, Taisuke (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4B6-01, 4B6-02, 4B6-03, 4B6-04, 4B6-05, 4B6-06)
4B6-01 Studies on high stereoselectivity in construction of metal-peptide knots and poly[n]catenane (Grad. Sch. Eng., The Univ. of Tokyo) ○INOMATA, Yuuki; SAWADA, Tomohisa; FUJITA, Makoto
4B6-02 Substituent Effects on the Kinetics of Pseudorotaxane Formation of C_{3v} -symmetric Macrocyclic BODIPY Trimers (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○MATSUOKA, Ryota; HIMORI, Sou; NABESHIMA, Tatsuya
4B6-03 Selective Formation of [3]Pseudorotaxanes Containing Diphenylviologen Derivative as an Axle Component Based on Cooperative Complexation (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○OGURA, Takaya; SAKATA, Yoko; AKINE, Shigehisa
4B6-04 Synthesis of rotaxans consisting of cyclic tetraamide and ammonium ions: Effect of macrocyclic ring size on pseudorotaxane formation (Grad. Sch. Eng., Univ. of Fukui) ○NAKAMURA, Takanori; MORI, Yuka; NAITO, Masaya; OKUMA, Yuki; MIYAGAWA, Shinobu; TAKAYA, Hikaru; TOKUNAGA, Yuzi
4B6-05 CH/ π interaction stabilize a pseudorotaxane (Grad. Sch. Natural Sci., Konan Univ.) ○FUJIMOTO, Naoki; KATAGIRI, Kosuke
4B6-06 Synthesis of a [2]Rotaxane from a Macrocyclic Dibenzophenanthroline Derivative (Fac. Sci., TUS) ○OKUDA, Ayano; MUTOH, Yuichiro; SAITO, Shinichi

Chair: MATSUOKA, Ryota (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4B6-08, 4B6-09, 4B6-10, 4B6-11, 4B6-12, 4B6-13)
4B6-08 Construction of a Dynamic Rotaxane Containing Pd(II)-Phenylene-diamine Complex Moiety in the Axle (Coll. Sci. Eng., Kanazawa Univ.) ○HIBI, Toshihiro; SAKATA, Yoko; AKINE, Shigehisa
4B6-09 Synthetic Study of Interlocked Compounds by Taking Advantage of Selenenyl Sulfides with Intramolecular Coordination (Sch. Sci., Tokyo

- Tech.) ○YAZAWA, Shuto; SASE, Shohei; GOTO, Kei
4B6-10 Construction and Dynamic Covalent Properties of Imine-bridged Type III-C Rotaxane Dendrimers (Fac. Sci., TUS) ○ISHIKAWA, Keita; SUGINO, Hiroyoshi; ONO, Kosuke; KAWAI, Hidetoshi
4B6-11 Dynamic Equilibrium and *In/Out* Properties of Axle Components in Imine-bridged [3]Rotaxanes (Fac. Sci., TUS) ○NAKAI, Shinnosuke; ONO, Kosuke; KAWAI, Hidetoshi
4B6-12 Insulation effects of Ni(II) salen complex bearing [1]-rotaxane structure under acidic condition (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○SHIMADA, Sotaro; HARADA, Ryosuke; MASAI, Hiroshi; TERAJO, Jun
4B6-13 Kinetic studies of the azimuthal rotation in the high-oxidation state of rare-earth bis(porphyrinato) double decker complexes (Grad. Sch. Sci., Osaka Univ.) ○TOYAMA, Satoshi; YAMASITA, Kenichi; OGAWA, Takuji

Self-assembly

Chair: TAHARA, Kazukuni (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4B6-15, 4B6-17, 4B6-18, 4B6-19)
4B6-15** Real-time video imaging of mechanical motions of a single molecular shuttle (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIMIZU, Toshiki; LUNGERICH, Dominik; STUCKNER, Joshua; MURAYAMA, Mitsuhiko; HARANO, Koji; NAKAMURA, Eiichi
4B6-17 Regulated Single-Axis Rotations of a Carbonaceous Guest in a van der Waals Complex with an Entropy Cost (Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Sci., TMU) ○MATSUMO, Taisuke; NAKAI, Yusuke; MANIWA, Yutaka; SOMEYA, Maki; SATO, Sota; ISOBE, Hiroyuki
4B6-18 Construction of Supramolecular Columnar Assemblies using TTF-Annulated Suphthalocyanine (Grad. Sch. Eng., Kyushu Univ.) ○KIJIMA, Fumiya; UCHIHARA, Koya; FURUTA, Hiroyuki; SHIMIZU, Soji
4B6-19** TriQuinoline and Its Congeners (Inst. of Microb. Chem.) ○XU, Wei; ADACHI, Shinya; SHIBASAKI, Masakatsu; KUMAGAI, Naoya

Wednesday, March 25, PM

Chair: SUGIYASU, Kazunori (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4B6-28, 4B6-29, 4B6-31, 4B6-32, 4B6-33)
4B6-28 Ion-Pairing Assemblies Comprising π -Electronic Anions Stabilized by Intramolecular Hydrogen Bonding (Coll. Life Sci., Ritsumeikan Univ.) ○FUMOTO, Nobuhiro; HAKETA, Yohei; MAEDA, Hiromitsu
4B6-29* Study on Electronic States of π -Electronic Ion Pairs and Assemblies (Coll. Life Sci., Ritsumeikan Univ.) ○HAKETA, Yohei; MAEDA, Hiromitsu
4B6-31 Self-assembled porphyrin sandwich driven by complementarities (Grad. Sch. Eng., Univ. of Fukui) ○UEDA, Masahiro; KIMURA, Masaki; BAN, Hayato; MIYAGAWA, Shinobu; TAKAYA, Hikaru; NAITO, Masaya; TOKUNAGA, Yuji
4B6-32 Helical supramolecular polymer formed through self-assembly of chiral tetrakisporphyrin (Fac. Sci., Hiroshima Univ.) ○FUJII, Naoka; HAINO, Takeharu; HIRAO, Takehiro
4B6-33 Supramolecular polymerization and photoresponsive behavior of hydrogen-bonded rosettes bearing azobenzene wings (IGPR, Chiba Univ.) ○TAMAKI, Kenta; YAGAI, Shiki

Chair: HAKETA, Yohei (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4B6-35, 4B6-37, 4B6-39)
4B6-35** Insight into living crystallization-driven self-assembly of charge-terminated poly(3-hexylthiophene) homopolymers based on the energy landscape (Univ. of Victoria) ○FUKUI, Tomoya; MANNERS, Ian
4B6-37** Development of supramolecular network polymer through molecular recognition of bisporphyrin cleft (Grad. Sch. Sci., Hiroshima Univ.) ○HISANO, Naoyuki; LAI, Nang Duy; HIRAO, Takehiro; HAINO, Takeharu
4B6-39** Helical supramolecular polymer formed by coordination-driven self-assembly of biscavitands (Grad. Sch. Sci., Hiroshima Univ.) ○SHIMOYAMA, Daisuke; TSUNODA, Yuta; HAINO, Takeharu

Chair: HIRAO, Takehiro (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4B6-42, 4B6-43, 4B6-44, 4B6-45, 4B6-46)
4B6-42 Ion-Pairing Assemblies Based on Anion-Unit-Introduced Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○MURATA, Tomoki; HAKETA, Yohei; MAEDA, Hiromitsu
4B6-43 Synthesis and Assemblies of Self-Associating Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○NISHIYAMA, Kenta; HAKETA, Yohei; MAEDA, Hiromitsu
4B6-44 Periodic Chemical Functionalization of Graphite Surface Using Homochiral Porous Self-Assembled Molecular Networks as Templates (Dept. of Sci. Tech., Meiji Univ.; Grad. Sch. Eng. Sci., Osaka Univ.; ISIR, Osaka Univ.; Dept. of Chem., KU Leuven; Sch. Sci. Eng., Meiji Univ.) ○HASHIMOTO, Shingo; KUBO, Yuki; KANEKO, Hiromasa; DE FEYTER, Steven; TOBE, Yoshito; TAHARA, Kazukuni

- 4B6-45** Effect of long alkyl chains in a monomer that affords supramolecular polymers with intrinsic curvature (IGPR, Chiba Univ.) ○TSUKUDA, Ryohei; YAGAI, Shiki
- 4B6-46** Effect of monomer structure on the formation of supramolecular polymers with intrinsic curvature (IGPR, Chiba Univ.) ○SATO, Yuta; YAGAI, Shiki

Room B7

Lecture Hall Bldg. K207

Physical Organic Chemistry Structures and Properties

Sunday, March 22, PM

Molecular Recognition

Chair: KATO, Shin-ichiro (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1B7-34, 1B7-35, 1B7-36, 1B7-37, 1B7-38)
- 1B7-34** Synthesis and Molecular Recognition of Bisresorcinarene Host Molecule with Rebek's Cavitands (Grad. Sch. Sci., Hiroshima Univ.) ○FUJIMOTO, Haruna; HAINO, Takeharu
- 1B7-35** Formation of Stimuli-Responsive Planar Chiral Pillar[5]arene Dimer (Grad. Sch. Eng., Kyoto Univ.) ○ADACHI, Keisuke; FA, Shixin; OGOSHI, Tomoki
- 1B7-36** Formation of Polypseudorotaxanes Constructed from Pillar[5]arenes and Polyethylene Glycol Using Hydrogen Bonding (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○MAEDA, Koki; YAGYU, Masafumi; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; FA, Shixin; OGOSHI, Tomoki
- 1B7-37** Synthesis of Porous Carbons by Calcination of Pillar[5,6]arenes with Propargyl Groups (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○ONISHI, Katsuto; SAKATSUME, Yuma; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; FA, Shixin; OGOSHI, Tomoki
- 1B7-38[#]** Construction of expanded nanotubes via supramolecular assembly of pillar[5]arenes (Grad. Sch. Eng., Kyoto Univ.; NanoLSI, Kanazawa Univ.) ○FA, Shixin; SAKATA, Yoko; AKINE, Shigehisa; OGOSHI, Tomoki

Molecular Photophysical Properties

Chair: TAKEDA, Takashi (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1B7-41, 1B7-42, 1B7-43, 1B7-44, 1B7-45, 1B7-46)
- 1B7-41** Synthesis and properties of indeno[1,2,3-g]tetracene derivatives with enhanced photo-stability (Sch. Eng., The Univ. of Shiga Pref.; Grad. Sch. Eng., Univ. of Hyogo) ○FURUTANI, Toko; TERADA, Yoshitaka; KATO, Shin-ichiro; NISHIDA, Jun-ichi; KAWASE, Takeshi; KITAMURA, Chitoshi
- 1B7-42** Photophysical properties of midazopyridine derivatives with 7-membered ring containing intramolecular hydrogen bond under various acid-base condition. (Grad. Sch. Sci., Kitasato Univ.; IIS, The Univ. of Tokyo) ○SUZUKI, Rikuto; MUTAI, Toshiki; MAZAKI, Yasuhiro
- 1B7-43** Synthesis and Fluorescence Properties of Silyl-substituted Benzo[b]thiophene-1,1-dioxides (Grad. Sch. Urban Envr. Sci., TMU) ○NOBUHARA, Keita; INAGAKI, Yusuke; SETAKA, Wataru
- 1B7-44** Benzofuran-fused Benzothiadiazole Fluorescence Dyes with Donor-acceptor Conjugation (NIT, Kurume College) ○KATO, Tomoki; ISHI-I, Tsutomu
- 1B7-45** Fluorescent Ionic Liquids Based on Silicon-Bridged 2-Arylindoles (KIT) ○MINEYAMA, Mizuki; SHIMIZU, Masaki
- 1B7-46** Phototriggered formation of metastable betaine from 9-substituted acridinium for the efficient photothermal energy conversion (RIES, Hokkaido Univ.) ○TAKANO, Yuta; SAsIKUMAR, Devika; BIJU, Vasudevanpillai

Solid-state Fluorescence

Chair: ISHII, Tsutomu (16 : 50~17 : 50)

- * 16:40-16:50: interval for laptop PC connection.(1B7-48, 1B7-49, 1B7-50, 1B7-51, 1B7-52, 1B7-53)
- 1B7-48** Photophysical and electrochemical properties of anthraquinones with arylamino groups (IMRAM, Tohoku Univ.) ○TAKEDA, Takashi; AKUTAGAWA, Tomoyuki
- 1B7-49** Synthesis and dual fluorescence properties of V-shaped flapping mechanophore bearing pyrene wings (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○YAMAKADO, Takuya; OSUKA, Atsuhiko; SAITO, Shohei
- 1B7-50** Diphenylhexatriene carboxylic amides: Effects of alkyl chain length on the crystal structures and emission properties (AIST; Grad. Sch. Eng., Osaka Univ.) ○SONODA, Yoriko; TOHNAI, Norimitsu; NORIKANE, Yasuo
- 1B7-51[#]** Synthesis and photophysical properties of solid-state luminescent

- pyrrole trimers (NIT, Kitakyushu College) ○OKAWARA, Toru; MATSUFUJI, Yurina; HAMASAKI, Ryunosuke; YAMAMOTO, Kizuku
- 1B7-52** Synthesis of bis-cyanostilbene-derived boronate system and the solid-based emission properties (Grad. Sch. Urban Envr. Sci., TMU) ○KOJIMA, Soya; KUBO, Yuji
- 1B7-53** Borate Formation and Photophysical Properties of 2-Quinolybenzodiazaborine Derivatives (Sch. Sci., Tokyo Tech.) ○NAKAMURA, Takumu; SHIMO, Syunsuke; TAKAHASHI, Kohei; TORIUMI, Naoyuki; IWASAWA, Nobuharu

Triplet, Phosphorescence

Chair: HASOBE, Taku (18 : 00~18 : 50)

- * 17:50-18:00: interval for laptop PC connection.(1B7-55, 1B7-56, 1B7-57, 1B7-58, 1B7-59)
- 1B7-55** Synthesis and Solid-State Luminescence Properties of Novel TADF Materials Possessing Arylsulfonyl Groups (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○MATSUI, Yasunori; YOKOYAMA, Yudai; ISHIIHARAGUCHI, Kenta; OHTA, Eisuke; NAITO, Hiroyoshi; IKEDA, Hiroshi
- 1B7-56** Heavy-metal-free NIR-to-visible photon upconversion (Grad. Sch. Eng., Kyushu Univ.) ○KONDO, Jumpei; HARUKI, Rena; SASAKI, Yoichi; YANAI, Nobuhiko; KIMIZUKA, Nobuo
- 1B7-57** Evaluation of luminescent properties and ultralong phosphorescence of crown ethers (Fac. Eng., Chiba Univ.) ○TAKIGAWA, Junya; SAKAMOTO, Takaaki; YAMADA, Masaru; TANIGUCHI, Tatsuo; KARATSU, Takashi
- 1B7-58** Room-Temperature Phosphorescence of 2,5-bis(silyloxy)terephthalamides (KIT) ○HIRAKAWA, Rika; SHIMIZU, Masaki
- 1B7-59** Ultralong lifetime organic phosphorescence in host materials for OLEDs (Grad. Sch. Sci. Eng., Chiba Univ.) ○SASAKI, Yuka; NODA, Seigi; TANIGUCHI, Tatsuo; KARATSU, Takashi

Monday, March 23, AM

Organic Radical

Chair: YANAI, Nobuhiko (9 : 10 ~ 10 : 10)

- * 9:00-9:10: interval for laptop PC connection.(2B7-02, 2B7-03, 2B7-04, 2B7-06)
- 2B7-02[#]** The synthesis, properties, and coordination ability of a novel luminescent organic radical with two pyridyl groups (Grad. Sch. Sci., The Univ. of Tokyo) ○UCHIDA, Hikaru; KIMURA, Shun; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi
- 2B7-03** Reaction behavior of triphenylimidazolyl radical with bulky substituent (Fac. Sci., Hiroshima Univ.) ○OKAMOTO, Kazunori; HATANO, Sayaka; ABE, Manabu
- 2B7-04^{*}** Study for the Photo-reaction of Norbornadiene Derivative with Quinoid Structures (Grad. Sch. Sci., Hiroshima Univ.) ○HATANO, Sayaka; TANABE, Chika; ABE, Manabu; ISHIBASHI, Yukihide; ASAHII, Tsuyoshi; OKAJIMA, Hajime; SAKAMOTO, Akira
- 2B7-06[#]** An organic radical with three pyridyl groups: luminescence properties and its two dimensional complexes (Grad. Sch. Sci., The Univ. of Tokyo; IMS) ○KIMURA, Shun; KUSAMOTO, Tetsuro; NISHIHARA, Hiroshi

Chair: ASAHII, Tsuyoshi (10 : 20~11 : 20)

- * 10:10-10:20: interval for laptop PC connection.(2B7-09, 2B7-10, 2B7-11, 2B7-12, 2B7-14)
- 2B7-09** Evaluation of photo-excited triplet spin polarization in porphyrin derivatives (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○YAMAUCHI, Akio; FUJIWARA, Saiya; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiko

Photosensitization, Singlet Fission

- 2B7-10** Synthesis of a benzofuran-fused BODIPY sensitizer for application in photocatalytic hydrogen production (Grad. Sch. Urban Envr. Sci., TMU; ReHES, TMU) ○MAKINO, Ko; SATO, Haruka; MU, Binyuan; KUBO, Yuji
- 2B7-11** Synthesis and Photophysical Properties of Chiral Tetracene Dimers (Fac. Sci. Tech., Keio Univ.) ○TSUDA, Kento; SAKAI, Hayato; HASOBE, Taku
- 2B7-12[#]** Tetracene Molecular Wires for Efficient Singlet Fission (Fac. Sci. Tech., Keio Univ.; Dept. Chem. Bioeng., Tampere Univ.) ○NAKAMURA, Shunta; SAKAI, Hayato; TKACHENKO, Nikolai; HASOBE, Taku
- 2B7-14** Theoretical Study on Singlet Fission in Sumanene-Fused Acene Dimers (Grad. Sch. Eng. Sci., Osaka Univ.) ○OKADA, Kenji; YOSHIDA, Wataru; MIYAMOTO, Hajime; NAKAZAWA, Hironobu; UETAKE, Yuta; SAKURAI, Hidehiro; NAKANO, Masayoshi

Stimuli-Responsive Luminescence

Chair: ONO, Toshikazu (11 : 30~12 : 30)

- * 11:20-11:30: interval for laptop PC connection.(2B7-16, 2B7-17, 2B7-18,

2B7-19, 2B7-20)

- 2B7-16** Structure and Stimuli-Responsive Photophysical Property of Tetrafulvalene Radical Cation Salt (Grad. Sch. Eng. Sci., Osaka Univ.)
 ○SAKAI, Toshihiro; SUZUKI, Shuichi; UCHIDA, Yoshiaki; NAOTA, Takeshi
- 2B7-17** Reversible Molecular Structure Change and Structural Phase Transition of Crystalline Luminescent Multinuclear Copper(I) Complexes Responsive to the External Stimuli (Grad. Sch. Eng., Osaka Univ.; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Sch. Med., Jichi Med. Univ.; KEK; UNISOKU Co., Ltd.; Sch. Eng., Nihon Univ.) ○ARAHORI, Ikuya; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; TOHNAI, Norimitsu; KASAI, Hidetaka; NISHIBORI, Eiji; ICHIYANAGI, Kohei; SATOH-TOMITA, Ayana; NOZAWA, Syunsuke; NAKAGAWA, Tatsuo; KATOH, Ryuzi
- 2B7-18** Crystalline Gold(I) Isocyanide Complex Exhibiting Emission Enhancement Accompanied by the Structural Phase Transition under Photoirradiation (Grad. Sch. Eng., Osaka Univ.; Sch. Med., Jichi Med. Univ.; KEK; MPRC, Kobe Univ.; Fac. Sci., Hokkaido Univ.) ○MOROTO, Yoshiaki; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; SEI, Hiroi; TOHNAI, Norimitsu; ICHIYANAGI, Kouhei; SATOH-TOMITA, Ayana; NOZAWA, Shunsuke; TACHIKAWA, Takashi; IWASA, Takeshi
- 2B7-19** Multicolor Mechanochromic Luminescence in Donor-acceptor Dyes (NIT, Kurume College) ○KICHISE, Rihoko; TANAKA, Honoka; MATSUMOTO, Taisuke; ISHI-I, Tsutomu
- 2B7-20[#]** Mechanoresponsive Turn-On of Organic Room-Temperature Phosphorescence (Grad. Sch. Sci., Osaka Univ.) ○TANI, Yosuke; KOMURA, Mao; OGAWA, Takuji

Monday, March 23, PM

Adsorption Response

Chair: TANI, Yosuke (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(2B7-29, 2B7-30, 2B7-32)
- 2B7-29** Noble Metal-Free Fluorescence Detection of Hydrogen Gas by Utilizing Frustrated Lewis Pairs (Grad. Sch. Eng. Sci., Yokohama Natl. Univ.) ○SUZUKI, Hayato; ITO, Suguru
- 2B7-30^{*}** Diethenylpyrrole-Based Fluorescent Sensors for Detection of Carbon Dioxide in Solution and Solid State (Sch. Env. Sci. Eng., KUT) ○YOKOYAMA, Soichi; NISHIWAKI, Nagatoshi
- 2B7-32[#]** Photofunction modulation of intramolecular charge-transfer dye based on acid-base complexation and the vapo-chromic behaviors (Grad. Sch. Eng., Kyushu Univ.) ○YANO, Yoshio; ONO, Toshikazu; HISAEDA, Yoshio

Chirality

Chair: TAKAISHI, Kazuo (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2B7-35, 2B7-36, 2B7-37, 2B7-38, 2B7-39)
- 2B7-35** Multi-Emission and Chiroptical Properties of Chiral Ligand-Substituted Boron Dipyrromethene Derivatives (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Yudai; SAKAI, Hayato; HASOBE, Taku
- 2B7-36** Circularly polarized luminescence by formation of pyrene excimers on cyclodextrin (Grad. Sch. Eng., Osaka Univ.) ○KAWAKAMI, Kosei; SHIGEMITSU, Hajime; KAJIWARA, Rikuo; MORI, Tadashi; KIDA, Toshiyuki
- 2B7-37** Design and synthesis of chiral anthracene dimers contributing to the study of excimer formation for circularly polarized luminescence properties (IMRAM, Tohoku Univ.) ○KAKIZAKI, Tomonori; YOSPANYA, Wijak; KURONUMA, Makoto; NISHIJIMA, Masaki; ARAKI, Yasuyuki; ODA, Reiko; WADA, Takehiko
- 2B7-38** Circularly polarized luminescence (CPL) characteristics of hydrophobic pyrene derivatives / γ -cyclodextrin (γ -CD) complexes in water. (Grad. Sch. Human. Sci., Nara Women's Univ.) ○SAWAI, Mika; TAKASHIMA, Hiroshi; MIMURA, Yuki; IMAI, Yoshitane
- 2B7-39[#]** Linker-dependent Control of the Chiroptical Responses of Planar Chiral Polymethylene-vaulted Platinum(II) Complexes Bearing 1,1'-Binaphthyl Ligand (Grad. Sch. Eng. Sci., Osaka Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) ○IKESHITA, Masahiro; HARA, Nobuyuki; IMAI, Yoshitane; NAOTA, Takeshi

Bioimaging

Chair: TOHNAI, Norimitsu (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2B7-42, 2B7-43, 2B7-44, 2B7-45)
- 2B7-42** Circularly polarized luminescence (CPL) and magnetic circularly polarized luminescence (MCPL) of peptide-metal hybrid luminophore (Grad. Sch. Sci. Eng., Kindai Univ.; ORIST; JASCO Co.) ○MIMURA, Yuki; YOSHIKAWA, Hiroki; MOTOMURA, Yuki; SHIZUMA, Motohiro; KONDO, Yoshiro; SUZUKI, Satoko; KITAMATSU, Mizuki; IMAI, Yoshitane
- 2B7-43** Photobasic Properties of Phospha-xanthone Dyes (Grad. Sch. Sci.,

Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○SAKAI, Yuki; OGASAWARA, Hiroaki; TAKI, Masayasu; YAMAGUCHI, Shigehiro

- 2B7-44** Development of Boron and Phosphorus-Containing Donor-Acceptor-Acceptor-Type NIR-Fluorescent Dyes and Their Use in Bioimaging (Grad. Sch. Sci., Nagoya Univ.; Department of Chemistry, York Univ.; Grad. Sch. Med., Ehime Univ.; WPI-ITbM, Nagoya Univ.) ○SUGIHARA, Yoshiaki; INAI, Naoto; YANAI, Takeshi; BAUMGARTNER, Thomas; KAWAKAMI, Ryosuke; SAITOU, Takashi; IMAMURA, Takeshi; TAKI, Masayasu; YAMAGUCHI, Shigehiro
- 2B7-45[#]** H₂S-Bioimaging and Photodynamic Therapy Based on NIR-electrochromic Systems (Hokkaido Univ.; Sch. Chem. and Chemical Eng., Nanjing Univ.) ○SUZUKI, Takanori; ISHIGAKI, Yusuke; SUGIMOTO, Keisuke; HARIMOTO, Takashi; WU, Luyan; YE, Deju

Tuesday, March 24, AM

Magnetic materials

Chair: OKAZAWA, Atsushi (9 : 00~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3B7-01, 3B7-02, 3B7-03, 3B7-04)
- 3B7-01** Intramolecular covalent bond- biradical switching in bisnitroxides involving a biphenyl-based hinge (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○ARAI, Marina; ISHIDA, Takayuki
- 3B7-02** Synthesis and Magnetic Properties of Pentaradical (Grad. Sch. Sci., TUS) ○TAKENOUCHEI, Yuta; FUKUSHIMA, Yusuke; KANETOMO, Takuya; ENOMOTO, Masaya
- 3B7-03** Electrochemical and Magnetic Properties of Bis(Nitronyl Nitroxide)-2-ide]-Gold(I) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○OHNO, Tomoya; WADA, Tomoyuki; SUZUKI, Shuichi; KOZAKI, Masatoshi; OKADA, Keiji; SATO, Kazunobu; SHIOMI, Daisuke; TAKUI, Takeji; NAOTA, Takeshi
- 3B7-04[#]** Synthesis of Pyridine-Based Tridentate Ligands Having a Nitroxide and Luminescence and Magnetic Studies of Their Lanthanoid Complexes (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KISHIMOTO, Midori; ISHIDA, Takayuki

Molecular conductors

Chair: ENOMOTO, Masaya (9 : 50~10 : 40)

- * 9:40-9:50: interval for laptop PC connection.(3B7-06, 3B7-08, 3B7-09, 3B7-10)
- 3B7-06[#]** Structure and electronic properties of bilayer type molecular conductors based on ETTM-STF (Condensed Molecular Mat. Lab., RIKEN) ○UEBE, Masashi; MINAMIDATE, Takaaki; CUI, Hengbo; KATO, Reizo
- 3B7-08** Theoretical study on difference in electron conductivity of cis-trans isomers of polyenes (Sch. Eng. Sci., Osaka Univ.) ○AMAMIZU, Naoka; TADA, Hayato; IKENAGA, Kazuki; ERA, Iori; FUJII, Takuya; KITAGAWA, Yasutaka; NAKANO, Masayoshi
- 3B7-09** Synthesis and single-molecule electrical conductivity measurement of Polyoxyometalate/Metalloporphyrin complex (Grad. Sch. Sci., Osaka Univ.) ○AOYAMA, Tomoya; TANI, Yosuke; OGAWA, Takuji
- 3B7-10** Evaluating single molecular conductance by simultaneous observation of two different molecular wires in 2D phase separated tetraphenylporphyrin templates at a liquid-HOPG interface (Grad. Sch. Eng., Kyoto Univ.) ○IIZUKA, Tomoya; MATSUDA, Kenji

Organic semiconductors

Chair: NISHIDA, Jun-ichi (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(3B7-12, 3B7-14, 3B7-15, 3B7-16, 3B7-17)
- 3B7-12[#]** Development of U-shape heteroacenes containing heavy chalcogen atoms toward high-performance organic semiconductors (Grad. Sch. Eng., Kyushu Univ.; IFRC, Kyushu Univ.) ○MORI, Tatsuya; YASUDA, Takuma
- 3B7-14** Synthesis of soluble dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNNT) derivatives via 2-bromo DNNT (Grad. Sch. Sci., Tohoku Univ.) ○USUI, Sayaka; KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 3B7-15[#]** Synthesis and characterization of enantio-pure 2-(2-ethylhexyl)dinaphthothienothiophene (Grad. Sch. Sci., Tohoku Univ.) ○SUMITOMO, Kenta; KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 3B7-16** The Synthesis and Application of Pyranilidene Substituted Heteroaromatics with very High-lying HOMO Energy Level (Grad. Sch. Sci., Tohoku Univ.) ○MATSUO, Takaya; KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 3B7-17** Observation of valence band dispersion in dinaphtho-thieno-thiophene single crystals by angle-resolved ultraviolet photoelectron spectroscopy. (Grad. Sch. Fac. Sci. Technol., TUS) ○TAKEUCHI, Riku; IZAWA, Seiichi; HASEGAWA, Yuri; TSURUTA, Ryohai; YAMAGUCHI, Takuma; MATTHIAS, Meissner; IDETA, Shinnichirou; TANAKA, Kiyohisa; KERA, Satoshi; HIRAMOTO, Masahiro; NAKAYAMA, Yasuo

Tuesday, March 24, PM

Chair: TAKIMIYA, Kazuo (12 : 00~12 : 30)

- * 11:50-12:00: interval for laptop PC connection.(3B7-19, 3B7-20, 3B7-21)
- 3B7-19[#]** π -Extension of electron-accepting dithiarubene with a cyano-substituted electron-withdrawing group and application in air-stable n-channel organic field effect transistors (Grad. Sch. Eng., Nagoya Inst. of Tech.)
○TSUKAMOTO, Kenji; TAKAGI, Koji; IE, Yutaka; NAGANO, Shusaku; HARA, Mitsuo; OSAKADA, Kohtarō; TAKEUCHI, Daisuke
- 3B7-20** Film preparation and electric properties of diketopyrrolopyrrole derivatives with a face-on orientation based on an intermolecular hydrogen bond (Grad. Sch. Eng., Osaka Univ.) ○TERAOKA, Yurika; SUZUKI, Yuna; SAKURAI, Minori; SUZUKI, Mitsuharu; SUENOBU, Tomoyoshi; NAKAYAMA, Ken-ichi
- 3B7-21** Synthesis of oligomers and their oxidation reactions towards edge-functionalized graphene nanoribbons (Grad. Sch. Sci. & Tech., NAIST; Grad. Sch. Sci. & Tech., NAIST) ○KAWAMURA, Mayu; HAYASHI, Hironobu; YAMADA, Hiroko

Solar cell

Chair: TAKAGI, Koji (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(3B7-29, 3B7-30, 3B7-32, 3B7-33)
- 3B7-29** Synthesis, Properties, and Photovoltaic Characteristics of Quinoidal Oligothiophenes Having Fully Benzene-Annellation (ISIR, Osaka Univ.)
○YAMAMOTO, Keitaro; JINNAI, Seiho; TAKEHARA, Tsunayoshi; SUZUKI, Takeyuki; IE, Yutaka
- 3B7-30[#]** Tin-based Perovskite Solar Cells using Dihydropyrazine as Reducing Agent (ICR, Kyoto Univ.) ○NAKAMURA, Tomoya; YAKUMARU, Shinya; LIU, Jiewei; TRUONG, Minh Anh; KIM, Kyusun; OTSUKA, Kento; HANDA, Taketo; KANEMITSU, Yoshihiko; MURDEY, Richard; WAKAMIYA, Atsushi
- 3B7-32** Triarylamine Derivatives with High-Lying HOMO Energy Levels: Design, Synthesis and Properties (ICR, Kyoto Univ.) ○TRUONG, Minh Anh; HASHIMOTO, Ruito; NAKAMURA, Tomoya; MURDEY, Richard; WAKAMIYA, Atsushi
- 3B7-33** Organic Semiconductors for Perovskite Solar Cells: Substituents' Effects of Triarylamine Derivatives (ICR, Kyoto Univ.) ○HASHIMOTO, Ruito; TRUONG, Minh Anh; NAKAMURA, Tomoya; MURDEY, Richard; WAKAMIYA, Atsushi

Molecular Recognition

Chair: OHISHI, Yuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3B7-35, 3B7-36, 3B7-37, 3B7-38, 3B7-39, 3B7-40)
- 3B7-35** Dynamic Control of Glucans with Aggregation-induced Emission-based Macromolecules (Sch. Sci., Tokyo Tech.; PRESTO, JST)
○NAKASHA, Kotoe; FUKUHARA, Gaku
- 3B7-36** Synthesis of a diamidine having a tetraphenylethylene unit with a rotationally restricted phenyl group and its carboxylic acid recognition (KIT) ○NAKAGAWA, Ayaka; KUSUKAWA, Takahiro
- 3B7-37** Phosphonic acid recognition of a tetraphenylethylene-based diamidine having a divergent structure (KIT) ○MURAKAMI, Hiroki; KUSUKAWA, Takahiro
- 3B7-38** Carboxylic Acid Recognition of a Diamidine Having a 9-(Diphenylmethylene)fluorene Unit (KIT) ○TSUJIMOTO, Shinya; KUSUKAWA, Takahiro
- 3B7-39** Phosphonic Acid Recognition of a Diamidine Having a Tetraphenylethylene Unit (KIT) ○IWANAGA, Masashi; KUSUKAWA, Takahiro
- 3B7-40** Oxocao Recognition of a Diguandine Having a Diphenylanthracene Unit (KIT) ○OOE, Masashi; KUSUKAWA, Takahiro

Chair: SHIGEMITSU, Hajime (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(3B7-42, 3B7-43, 3B7-44, 3B7-45)
- 3B7-42** Chiral Recognition of Anions Using Desymmetrized Structure of a Cyclodextrin Complex Possessing Seven Bipyridylamide Groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba)
○YONEMURA, Sota; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 3B7-43** Structures of Cyclodextrin Metal Complexes Possessing Six or Eight Bipyridyl Groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○AKATSUKA, Shunya; NAKAMURA, Takashi; NABESHIMA, Tatsuya
- 3B7-44** Development of rotaxane-type pyrenophanes emitting excimer-based circularly polarized luminescence (Fac. Pharm. Sci., Univ. of Toyama)
○NISHIOKI, Kohei; MIYAOKA, Yuta; OHISHI, Yuki; INOUE, Masahiko
- 3B7-45** Steric Control of Photoisomerization of Stilbene Derivatives Enabled by Linked Rotaxane Structure (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIYAGISHI, Hiromichi V.; MASAI, Hiroshi; TERAOKA, Jun

Chair: MASAI, Hiroshi (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(3B7-47, 3B7-48, 3B7-50)
- 3B7-47** Synthesis and Inclusion Ability of α -Cyclodextrin Dimers Bearing Various Multiple Linkers (Grad. Sch. Eng., Osaka Univ.) ○IBARAGI, Yushi; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 3B7-48*** Development of β -cyclodextrin trimers and phenyladamantane trimers as strong association-pairs in water (Grad. Sch. Pharm. Sci., Univ. of Toyama) ○OHISHI, Yuki; TAKEUCHI, Yuki; INOUE, Masahiko
- 3B7-50[#]** Aromatic Functionalized β -Cyclodextrin Derivatives for Enhanced Guest Inclusion and Chiral Recognition Ability in Nonpolar Solvents (Grad. Sch. Eng., Osaka Univ.) ○KALAW, Justine Mansilungan; SHIGEMITSU, Hajime; KIDA, Toshiyuki

Chair: OMOTO, Kenichiro (17 : 40~18 : 20)

- * 17:30-17:40: interval for laptop PC connection.(3B7-53, 3B7-54, 3B7-55)
- 3B7-53** Anion Recognition in Water by Tripodal Helical Metal Complexes with Accumulated Triazolium Groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○AOKI, Kosuke; MATSUOKA, Ryota; NABESHIMA, Tatsuya
- 3B7-54** Separation of regioisomers of disubstituted aromatic compounds with crystals of *p*-tert-butylcalix[4]arene (Grad. Sch. Eng., Tohoku Univ.) ○MATSUMOTO, Tomoaki; SAKAMOTO, Atsuya; SASAKI, Takuro; MOROHASHI, Naoya; HATTORI, Tetsuro
- 3B7-55[#]** Separation of amine isomers by open-chain hosts having a partial structure of *p*-tert-butylthiacalixarene (Grad. Sch. Eng., Tohoku Univ.) ○MIYOSHI, Ikuko; OGIHARA, Jun; SONEHARA, Hayato; MOROHASHI, Naoya; HATTORI, Tetsuro

Wednesday, March 25, AM

Chair: ONO, Kosuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4B7-08, 4B7-09, 4B7-10, 4B7-11, 4B7-12, 4B7-13)
- 4B7-08** Construction of Highly Entangled Coordination Polyhedra Based on Metal-Acetylene Interaction (Grad. Sch. Eng., The Univ. of Tokyo) ○ABE, Masahiro; DOMOTO, Yuya; FUJITA, Makoto
- 4B7-09** Design of Coordination Capsules with Molecular Entanglements by Chemical Modification of Triarylmethane Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ○HORIE, Shumpei; YAMAMOTO, Kidai; DOMOTO, Yuya; FUJITA, Makoto
- 4B7-10** Chiral Self-sorting in the Complexation of Salicylideneimine-type Cryptophane with Palladium Complexes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○KANAMORI, Akihiro; SAKATA, Yoko; AKINE, Shigehisa
- 4B7-11** Synthesis of Novel Cyclotrivertylene Derivative Having Three Salicylaldehyde Moieties and Conversion to Cryptophane-type Ligand (Coll. Sci. Eng., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○SUGIMOTO, Shingo; SAKATA, Yoko; AKINE, Shigehisa
- 4B7-12** Synthesis and Chiroptical Properties of Fluorescence Collagen-like Peptides (Sch. Sci., Tokyo Tech.; PRESTO, JST) ○FUKUCHI, Minami; FUKUHARA, Gaku
- 4B7-13** Colorimetric molecular recognition of amine compounds by 1,7-dicyanoperylene diimide (Grad. Sch. Sci. & Tech., Meijo Univ.) ○KAMIYA, Kosuke; FUJITA, Norifumi

Chair: TANAKA, Masayoshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4B7-15, 4B7-16, 4B7-17, 4B7-18, 4B7-19, 4B7-20)
- 4B7-15** Synthesis of cyclic celooligosaccharides from cellulose and their inclusion ability (Sch. Eng., Osaka Univ.) ○KADOSAKI, Yusuke; NAKAMURA, Kouji; SHIGEMITSU, Hajime; NISHIURA, Masahito; KIDA, Toshiyuki
- 4B7-16** Strain-induced hydrolysis of amides through co-inclusion in a confined cavity of a coordination cage (Grad. Sch. Eng., The Univ. of Tokyo)
○SHITOZAWA, Kosuke; TAKEZAWA, Hiroki; FUJITA, Makoto
- 4B7-17** Effect of Ring Structure in Hydrindacene-based Allosteric Receptors with Cyclic Amidines (Fac. Sci., TUS; Sch. Sci., Tokyo Tech.) ○KATAOKA, Takayuki; ONO, Kosuke; KAWAI, Hidetoshi
- 4B7-18** Chiral Carboxylate Recognition by Stereodynamic Allosteric Urea Receptors (Fac. Sci., TUS) ○KIMURA, Yuki; ONO, Kosuke; KAWAI, Hidetoshi
- 4B7-19** Synthesis of chiral cryptands with entanglement (Grad. Sch. Eng., Univ. of Fukui) ○FUJIHARA, Hiroki; NAITO, Masaya; MIYAGAWA, Shinobu; TAKAYA, Hikaru; TOKUNAGA, Yuji
- 4B7-20** Developments of New Hydrogen-bond-donating Catalysts Consisting of a Phenol-Benzene-Phenol Motif (Grad. Sch. Med. Pharm. Sci. Edu., Univ. of Toyama) ○HAYASHI, Tomoya; OHISHI, Yuki; INOUE, Masahiko

Wednesday, March 25, PM

Chair: OHISHI, Yuki (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(4B7-28, 4B7-29, 4B7-30, 4B7-31, 4B7-32)
- 4B7-28** Synthesis of Macrocyclic Compounds by Using Boroxine Formation (Fac. Sci., TUS; Sch. Sci., Tokyo Tech.) ○ONODERA, Satoru; KAWAI,

- Hidetoshi; ONO, Kosuke
- 4B7-29** Room-temperature phosphorescence-active boronate particles with afterglow sensing capability (Grad. Sch. Urban Envr. Sci., TMU) ○KOGA, Ayumi; HOSHI, Mitsuki; KUBO, Yuji
- 4B7-30** Hydrostatic Pressure-regulated Fluorescence Foldamer: Fluorescence Properties, Dynamic Control, and Application to Anion Sensing (Sch. Sci., Tokyo Tech.; Coll. Life Sci., Ritsumeikan Univ.; PRESTO, JST) ○KINOSHITA, Tomokazu; HAKETA, Yohei; MAEDA, Hiromitsu; FUKUHARA, Gaku
- 4B7-31** Synthesis of Cyclic Anion-Responsive π -Electronic Molecules with Metal-Coordination Unit (Coll. Life Sci., Ritsumeikan Univ.) ○KOIKE, Ai; HAKETA, Yohei; MAEDA, Hiromitsu
- 4B7-32** Synthesis of Anion-Responsive π -Electronic Systems by Huisgen Cycloaddition (Coll. Life Sci., Ritsumeikan Univ.) ○NISHIMURA, Tadahiho; HAKETA, Yohei; MAEDA, Hiromitsu

Chair: SAKATA, Yoko (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(4B7-34, 4B7-35, 4B7-36, 4B7-37, 4B7-38)
- 4B7-34** Synthesis and Crystal Structures of Isophthalyltricyclopentadiene (Fac. Urban Envr. Sci., TMU) ○OHYAMA, Shuto; INAGAKI, Yusuke; SETAKA, Wataru
- 4B7-35** Synthesis and Molecular Sensing of a Porphyrin-based Chemosensor (Sch. Sci., Tokyo Tech.; PRESTO, JST) ○SUZUKI, Sho; FUKUHARA, Gaku
- 4B7-36** FRET-Based Oligosaccharide Sensing in Aqueous Media Using Fluorophore-Curdlan Conjugates (Sch. Sci., Tokyo Tech.; PRESTO, JST) ○RYOSON, Yuma; FUKUHARA, Gaku
- 4B7-37** Hydrostatic Pressure-Controlled Chemosensors. Fluorescence Responses of Peptide-Pyrene Conjugates upon Pressurization (Sch. Sci., Tokyo Tech.; PRESTO, JST) ○MIZUNO, Hiroaki; KITAMATSU, Mizuki; IMAI, Yoshitane; FUKUHARA, Gaku
- 4B7-38** Enhancement in inclusion ability of a coordination cage by an anion as a lid (Fac. Eng., The Univ. of Tokyo) ○TABUCHI, Ryosuke; SUNOHARA, Haruka; TAKEZAWA, Hiroki; FUJITA, Makoto

Room B8

Lecture Hall Bldg. K209

Physical Organic Chemistry Reaction Mechanism

Sunday, March 22, PM

- Chair: OKAZAKI, Takao (13 : 00~13 : 50)
- * 12:50-13:00: interval for laptop PC connection.(1B8-25, 1B8-26, 1B8-27, 1B8-28)
- 1B8-25** Investigation of the Reaction Mechanisms for Photochemical Indole Ring Formation from 2-Ethynylaniline Derivatives (Fac. of Sci., Okayama Univ. of Sci.) ○WAKAMATSU, Kan; FUJIWARA, Tomonari; YAMAMOTO, Koshi; YAMADA, Haruo
- 1B8-26** Characterization of photo-bleaching reaction of organic pigment nano-particles by singlet oxygen (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○OTSUKA, Naoshi; TAKAHASHI, Yukiko
- 1B8-27** Photochemical Oxygenation of Alkanes to the Corresponding Diols with Chlorine Dioxide (IACS, Osaka Univ.; OTRI, Osaka Univ.) ○OHKUBO, Kei
- 1B8-28*** Aromatic Electrophilic Substitution in the Photosolvolysis of 2-Benzyloxy-3-methoxyphenylthalene (Fac. Sci., Niigata Univ.) ○USUI, Satoshi; OHKURA, Ayaka; KINUGAWA, Chihiro; FUJITA, Haruka; MURAOHASHI, Takahiro

Chair: KITAGAWA, Toshikazu (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(1B8-31)
- 1B8-31[#]** CSJ Award for Creative Works Genesis of the Carbon-Carbon π -Single Bond (Grad. Sch. Sci., Hiroshima Univ.) ○ABE, Manabu
- Chair: OHGA, Yasushi (15 : 10~15 : 50)
- * 15:00-15:10: interval for laptop PC connection.(1B8-38, 1B8-39, 1B8-40)
- 1B8-38** Theoretical study on the selectivity of the 1,3-dipolar cycloaddition inside carbon nanotubes. (KIT) ○FUKUURA, Shuta; YUMURA, Takashi
- 1B8-39** Synthesis of Benzotruenes by Acid-Catalyzed Aldol Cyclocondensation in Ionic Liquid (Grad. Sch. Eng., Mie Univ.) ○OKAZAKI, Takao; BANNO, Satoshi; KITAGAWA, Toshikazu
- 1B8-40*** Steric and viscosity effect on the reactivity of singlet-2,2-dialkoxyl-1,3-diyls (Fac. Sci., Hiroshima Univ.) ○AKISAKA, Rikuo; ABE, Manabu

Chair: ITOH, Shuhei (16 : 00~16 : 50)

- * 15:50-16:00: interval for laptop PC connection.(1B8-43, 1B8-44, 1B8-45, 1B8-46)
- 1B8-43** Dynamic effect on ene-reaction of nitriles (Itsuu Lab.) ○KUROUCHI, Hiroaki

- 1B8-44** Origin of stereoselectivity in a mechanochemical reaction of diphenylfulvene and maleimide (FIFC, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; Université de Toulouse, IMT Mines Albi; ESICB, Kyoto Univ.) ○INA, Wakana; GONNET, Lori; HARUTA, Naoki; SATO, Tohru; BARON, Michel
- 1B8-45** Efficacy of metal ions and bases for amide hydrolysis in aqueous solution: A comparative DFT study (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OKADA, Hiroaki; ICHINO, Tomoya; KUBOTA, Koji; ITO, Hajime; MAEDA, Satoshi
- 1B8-46*** Substituent effects on gas-phase stabilities of 1-phenylcyclopentane-1,3-dilyliums (Sci. Res. Ctr., Hosei Univ.; Sci. Res. Ctr., Hosei Univ.) ○NAKATA, Kazuhide; FUJIO, Mizue

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

Monday, March 23, AM

- Chair: NAGAKI, Aiichiro (10 : 10~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(2B8-08, 2B8-09, 2B8-10, 2B8-11, 2B8-12, 2B8-13)
- 2B8-08** Invention of Fine Bubble Generator and Application to Organic Synthesis (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MATSUO, Keiya; ODAJIMA, Hiromichi; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 2B8-09** Fine-Bubble Mediated Hydrogenation Reaction of Heterocyclic Compounds (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○SUZUKI, Soma; TADANO, Genta; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 2B8-10** Multiple Factors Optimization of Flow Reaction Conditions Using Machine Learning (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○KON, Takuya; SATO, Kohei; NARUMI, Tetsuo; TAKEDA, Kazuhiro; MASE, Nobuyuki
- 2B8-11** Development of Environmentally Friendly Aromatic Alkylation Reactions with Alcohols as Substrates under Continuous-Flow Conditions (IRC3, AIST) ○MASUDA, Koichiro; ONOZAWA, Shun-ya; KOMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu
- 2B8-12** Selective Hydrogenation of Nitroarenes under Continuous-Flow Conditions (Kumiai Chemical Industry Co., Ltd.; IRC3, AIST) ○MATSUO, Hiroki; MASUDA, Koichiro; ONOZAWA, Shun-ya; UMEZU, Kazuto; SATO, Kazuhiko; KOBAYASHI, Shu
- 2B8-13** Development of an efficient synthetic method of isoindolinones by means of microwave irradiation (Tokuyama Corp.) ○SHIOZAWA, Motoki; SEKI, Masahiko

Chair: TANAKA, Hiroshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2B8-15, 2B8-16, 2B8-17, 2B8-18, 2B8-19, 2B8-20)
- 2B8-15** Rapid and Mild One-Flow Synthesis of β -Amino Acid *N*-Carboxy Anhydrides (Lab. Chem. Life Sci., Tokyo Tech.) ○SUGISAWA, Naoto; OTAKE, Yuma; NAKAMURA, Hiroyuki; FUSE, Shinichiro
- 2B8-16** Flow Acetalization Using Sulfonic Acid Functionalized Silica (Fac. Sci., Osaka Pref. Univ.) ○HIRANO, Toshiaki; FUKUYAMA, Takahide
- 2B8-17** Development of Heterogeneous Rhodium Catalysts Using Core/Shell Type Supports and Application to Asymmetric Arylation Reactions (Fac. Sci., The Univ. of Tokyo) KUREMOTO, Tatsuya; ○SADATSUNE, Ren; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 2B8-18** Development of heterogeneous chiral rhodium catalysts using core/shell type supports and application to packed-bed flow reactors (Grad. Sch. Sci., The Univ. of Tokyo) ○KUREMOTO, Tatsuya; SADATSUNE, Ren; YASUKAWA, Tomohiro; KOBAYASHI, Shu
- 2B8-19** Dehydrative Amination of Phenols Using Integrated Continuous-flow Reactors (IRC3, AIST) ○ICHTISUKA, Tomohiro; TAKAHASHI, Ikko; KOUMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu
- 2B8-20[#]** Development of Continuous-flow Synthesis for Amide Fungicides Using Heterogeneous Catalysts (IRC3, AIST; Grad. Sch. Sci., The Univ. of Tokyo) ICHITSUKA, Tomohiro; ○YU, Zhibo; KOUMURA, Nagatoshi; SATO, Kazuhiko; KOBAYASHI, Shu

Tuesday, March 24, AM

- Chair: OKAJIMA, Hajime (10 : 10~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(3B8-08, 3B8-09, 3B8-11, 3B8-12, 3B8-13)
- 3B8-08[#]** Continuous-flow Synthesis of 3-Aryl-3H-benzofuran-2-ones (Grad. Sch. Sci., The Univ. of Tokyo) ○XIN, Hailong; RAO, Xiaofeng; ISHITANI, Haruro; KOBAYASHI, Shu
- 3B8-09[#]** Sequential- and continuous-flow synthesis of a chiral diene utilizing highly selective and effective flow hydrogenation reaction (Grad. Sch. Sci., The Univ. of Tokyo) ○ISHITANI, Haruro; MILLER, Samuel Jacob; KOBAYASHI, Shu
- 3B8-11[#]** Immobilization of Chiral Secondary Amine Catalysts and Its Application in Continuous-Flow Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○YUE, Caizhen; YAMASHITA, Yasuhiro; KOBAYASHI, Shu
- 3B8-12** Increasing Efficiency of Radical Reduction Reactions Using Flow

Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○JIANG, Yiyuan; NAGAKI, Aiichiro

3B8-13 Precise Control of Schotten-Baumann Reaction Using Flow Microreactor (Grad. Sch. Eng., Kyoto Univ.) ○JIANG, Yiyuan; TAKUMI, Masahiro; HASHIMOTO, Goro; FURUSAWA, Mai; NAGAKI, Aiichiro

Chair: FUSE, Shinichiro (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3B8-15, 3B8-16, 3B8-17, 3B8-19)

3B8-15 Synthesis of Nitrogen-containing Biaryls Based on Space Integration of Lithiation, Borylation and Suzuki-Miyaura Coupling (Grad. Sch. Eng., Kyoto Univ.) ○MAEKAWA, Kei; TAKAHASHI, Yusuke; ASHIKARI, Yosuke; TAKUMI, Masahiro; SHIMIZU, Yutaka; JIANG, Yiyuan; HIGUMA, Ryosuke; ISHIKAWA, Susumu; SAKAUE, Hodaka; SHITE, Ibuki; AIZAWA, Yoko; YAMASHITA, Hiroki; YONEKURA, Yuya; COLELLA, Marco; LUISI, Renzo; TAKEGAWA, Toshihiro; FUJITA, Chiemi; NAGAKI, Aiichiro

3B8-16 Generation and Reaction of Fluorine-Substituted Methylolithium Using Flow Microreactor (Grad. Sch. Eng., Kyoto Univ.) ○HIGUMA, Ryosuke; TAKAHASHI, Yusuke; NAGAKI, Aiichiro; COLELLA, Marco; TOTTA, Arianna; LUISI, Renzo

3B8-17* Random Copolymerization of Alkyl Methacrylates by Flow Sequential Addition System (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Yusuke; SHITE, Ibuki; NAGAKI, Aiichiro

3B8-19** *In situ* quantitative observation of flow microreaction by Raman microspectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○OKAJIMA, Hajime; SAKAMOTO, Akira

Tuesday, March 24, PM

Chair: MASE, Nobuyuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3B8-28, 3B8-29, 3B8-30, 3B8-31, 3B8-32, 3B8-33)

3B8-28[#] Large-Scale Production of meta-Phenolsulfonic Acid-Formaldehyde Resin Catalyst for Continuous Flow Esterification of Various Carboxylic Acids and Alcohols (RIKEN) ○BAEK, Heeyoul; HU, Hao; OTA, Hajime; SHINOHARA, Kenta; MASE, Toshiaki; UOZUMI, Yasuhiro; YAMADA, Yoichi M. A.

3B8-29 Anionic Polymerization of Bromostyrenes using Flow Microreactor (Grad. Sch. Eng., Kyoto Univ.) ○ISHIKAWA, Susumu; ASHIKARI, Yosuke; TAKAHASHI, Yusuke; AIZAWA, Yoko; NAGAKI, Aiichiro

3B8-30 Construction and Development of In-line Analysis Methods Using Soft Sensors (Sch. Eng., Kyoto Univ.) ○SHITE, Ibuki; TAKAHASHI, Yusuke; TSUCHIHASHI, Yuta; TONOMURA, Osamu; NAGAKI, Aiichiro

3B8-31[#] Development of N-doped Carbon Incarcerated Copper Nanoparticle Catalysts for Aerobic Oxidation of Aliphatic Alcohols and Its Application to Continuous-flow Systems (Grad. Sch. Sci., The Univ. of Tokyo) ○TOBITA, Fumiya; YASUKAWA, Tomohiro; KOBAYASHI, Shu

3B8-32 Development of N-Doped Carbon Incarcerated Cobalt/Copper Nanoparticle Catalysts for Aerobic Oxidation of Aromatic Alcohols in continuous flow systems (Fac. Sci., The Univ. of Tokyo) ○KUME, Sanshiro; YASUKAWA, Tomohiro; KOBAYASHI, Shu

3B8-33[#] Development of Heterogeneous Acidic Nanoparticle Catalysts for Fridel-Crafts Acylations (Grad. Sch. Sci., The Univ. of Tokyo) ○YANG, Xi; YASUKAWA, Tomohiro; KOBAYASHI, Shu

Wednesday, March 25, AM

Chair: ARAI, Takayoshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4B8-08, 4B8-10, 4B8-12, 4B8-13)

4B8-08** Development of a continuous-flow deuteration method of aromatic compounds (Gifu Pharm. Univ.) ○KWIHWAN, Park; NAOYA, Ito; YOSHINARI, Sawama; TSUYOSHI, Yamada; HIRONAO, Sajiki

4B8-10** Continuous-Flow Asymmetric Hydrogenation of Enamides Enabled by Heterogeneous Rh Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SAITO, Yuki; KOBAYASHI, Shu

4B8-12 Multistep continuous-flow synthesis of optically active Tamsulosin (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIZAWA, Ken; SAITO, Yuki; LAROCHE, Benjamin; KOBAYASHI, Shu

4B8-13 Continuous-flow Reductive Amination with Nitriles Using Hydrogen as a Reductant with Heterogeneous Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○SAITO, Yuki; DOEHLICH, Dennis; NISHIZAWA, Ken; KOBAYASHI, Shu

Chair: FUKUYAMA, Takahide (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4B8-15, 4B8-17, 4B8-19, 4B8-20)

4B8-15** Generation and Reactions of Aryllithiums via Highly-Coordinated Anionic Intermediates Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.; NIT, Suzuka College) ○ASHIKARI, Yosuke; ICHINARI, Daisuke; MANDAI, Kyoko; AIZAWA, Yoko; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

4B8-17** Development of Ni-Immobilized Mesoporous Silica Catalysts for Continuous-flow Enantioselective 1,4-Addition Reactions (Grad. Sch. Sci.,

The Univ. of Tokyo) ○KANAI, Kan; ISHITANI, Haruro; KOBAYASHI, Shu

4B8-19 Mukaiyama Aldol Reactions in Aqueous Media under Continuous-flow Conditions with Heterogeneous Sc Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) KOBAYASHI, Shu; ○ONISHI, Ryo; SAITO, Yuki; KITANOSONO, Taku

4B8-20 Development of Polymer-Immobilized Visible Light Photocatalysts and Application for Continuous-Flow Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○OKUMURA, Arisa; YAMASHITA, Yasuhiro; KOBAYASHI, Shu

Wednesday, March 25, PM

Chair: UENO, Masaharu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4B8-28, 4B8-29, 4B8-31, 4B8-32, 4B8-33)

4B8-28 Construction of Microdroplet Formation Method of Organic Solvent for Application to Chemical Synthesis (Sch. Fundamental Sci. Eng., Waseda Univ.) ○TOU, Seika; HATTORI, Shohei; NOZAKI, Yoshito; YOON, Dong Hyun; TANAKA, Daiki; FUJITA, Hiroyuki; AKITSU, Takashi; SEKIGUCHI, Tetsushi; SHOJI, Shuichi

4B8-29* Sequential- and continuous-flow synthesis of donepezil utilizing catalytic aromatic-ring hydrogenation (Grad. Sch. Sci., The Univ. of Tokyo) ○FURIYA, Yuichi; ISHITANI, Haruro; KOBAYASHI, Shu

4B8-31 Continuous-Flow Henry Reactions using Ammonium Hydroxide Resins as Solid Base Catalysts (Grad. Sch. Sci., The Univ. of Tokyo) ○HARIMOTO, Yu; YAMAMOTO-RAYNBIRD, Marina; KANAI, Kan; ISHITANI, Haruro; KOBAYASHI, Shu

4B8-32[#] Effects of spacer-introduced ammonium resin catalysts on continuous-flow aldol reactions (Grad. Sch. Sci., The Univ. of Tokyo) ISHITANI, Haruro; ○YIN, Han; KANAI, Kan; KOBAYASHI, Shu

4B8-33 Development of a Rapid Enantioselective Evaluation Method Using ¹⁸O-Labeled Organic Compounds (Grad. Sch. Eng., Kyoto Univ.)

○MANDAI, Kyoko; TSUCHIHASHI, Yuta; ASHIKARI, Yosuke; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

Chair: TANAKA, Hiroshi (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(4B8-35, 4B8-36, 4B8-37, 4B8-38, 4B8-39)

4B8-35 Selective Generation of Alkoxy-carbenium Ions by Brønsted Acid Using Flow Microreactors (Grad. Sch. Eng., Kyoto Univ.) ○SHIMIZU, Yutaka; YAMASHITA, Hiroki; TAKUMI, Masahiro; NAGAKI, Aiichiro

4B8-36 Rapid Generation of Short-Lived Carbocations Using an Electrochemical Flow Reactor and Their Synthetic Applications (Grad. Sch. Eng., Kyoto Univ.) ○TAKUMI, Masahiro; SAKAUE, Hodaka; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

4B8-37[#] Development of N-Doped Carbon Incarcerated Palladium Nanoparticle Catalysts for Selective Hydrogenation of Nitroolefins to Oximes (Grad. Sch. Sci., The Univ. of Tokyo) ○YASUKAWA, Tomohiro; KOBAYASHI, Shu

4B8-38 Development of Heterogeneous Rh Nanoparticle Catalysts for Continuous Synthesis of Optically Active Amino Acids (Grad. Sch. Sci., The Univ. of Tokyo) ○MASUDA, Ryosuke; YASUKAWA, Tomohiro; KOBAYASHI, Shu

4B8-39[#] Development of Immobilized Palladium Nanoparticle-catalyzed Carbonylative Suzuki-Miyaura Coupling Reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○ZHU, Zhiyuan; YASUKAWA, Tomohiro; KOBAYASHI, Shu

Room B9

Lecture Hall Bldg. K210

Catalysts and Catalysis

Monday, March 23, AM

Organic synthesis

Chair: YATABE, Takafumi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2B9-01, 2B9-02, 2B9-03, 2B9-05)

2B9-01 Asymmetric hydrogenation of ketones by ceria-supported noble metal catalysts (Grad. Sch. Eng., Tohoku Univ.) ○HAYASHIGAMI, Nao; TAMURA, Masazumi; NAKAGAWA, Yoshinao; TOMISHIGE, Keiichi

2B9-02 Preparation of AuNP/Fe-MOFs catalyst by photodeposition and reduction of nitrobenzene (Adv. Eng. Crs., NIT, Gunma College) ○SATO, Shun; SAITO, Masakazu

2B9-03** Towards Sustainable Ester Reductions in Batch and Flow (Univ. of Strathclyde) ○SHAALAN, Youssef; BOULTON, Lee; JAMIESON, Craig

2B9-05** Efficient Reductive Amination of Carbonyl Compounds over Supported Base Metal Catalyst under Mild Conditions (MSL, Tokyo Tech.) ○DENG, Dian; KATO, Kahoko; KITA, Yusuke; KAMATA, Keigo; HARA,

Michikazu

Chair: KAMATA, Keigo (10 : 10~11 : 20)

- * 10:00-10:10: interval for laptop PC connection.(2B9-08, 2B9-10, 2B9-11, 2B9-12, 2B9-13, 2B9-14)
- 2B9-08*** Direct Synthesis of Indoles from Azoarenes and Ketones Using 4,4'-bipyridyl/Bis(neopentylglycolato)diboron as Organocatalytic Reductive System (Sch. Eng. Sci., Osaka Univ.) ○MISAL CASTRO, Luis Carlos; SULTAN, Ibrahim; NISHI, Kohei; TSURUGI, Hayato; MASHIMA, Kazushi
- 2B9-10** Selective hydrogenolysis of phenols to arenes by supported Pt nanoparticle catalyst (Grad. Sch. Eng., The Univ. of Tokyo) ○TSUKIMURA, Rio; JIN, Xiongjie; NOZAKI, Kyoko
- 2B9-11** Benzylic C-H Borylation Catalyzed by Nickel Supported on Ceria (Grad. Sch. Eng., The Univ. of Tokyo) ○YOSHII, Daichi; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 2B9-12** Sulfide Synthesis via C-S Bond Cleavage of Thiols by Supported Ni-Pd Bimetallic Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○MITAMURA, Kanju; YAMAMOTO, Kidai; YATABE, Takafumi; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 2B9-13** Development of Stimuli-responsive Thiourea Catalyst Controlling Stereoselectivity (Grad. Sch. Eng., TUS) ○YOSHIDA, Rino; IMAHORI, Tatsushi
- 2B9-14** Control of anion-trapping catalyst's activity based on photoisomerization of azobenzene (Grad. Sch. Eng., TUS) ○KAGETA, Daiki; IMAHORI, Tatsushi

Chair: OGURA, Masaru (11 : 30~12 : 10)

- * 11:20-11:30: interval for laptop PC connection.(2B9-16)
- 2B9-16 CSJ Award for Technical Development** Development of 1-Hexene Manufacturing Technology using Ethylene Trimerization Chromium Catalyst consisting of 4-Components (Mitsubishi Chemical Corp.; Mitsubishi Chemical Holdings Corporation) ○AOSHIMA, Takayuki; KAMEO, Hiroshi; YOKOYAMA, Kazuyuki; KANEKO, Kiyotaka; URATA, Hisao

Monday, March 23, PM

Oxidation

Chair: YAMAGUCHI, Kazuya (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2B9-33, 2B9-34, 2B9-35, 2B9-36, 2B9-38)
- 2B9-33** Direct Synthesis of Formaldehyde from Methane by a Iron Phosphate Catalyst and Reaction Mechanism (MSL, Tokyo Tech.) ○MATSUDA, Aoi; TATENO, Haruka; KAMATA, Keigo; HARA, Michikazu
- 2B9-34** Synthesis of Bismuth Phosphate Catalysts for Direct Synthesis of Formaldehyde from Methane (MSL, Tokyo Tech.) ○OBARA, Kazuhiko; KAMATA, Keigo; HARA, Michikazu
- 2B9-35** Epoxidation of Alkenes with Molecular Oxygen using Heterogeneous Lead Catalysts (Grad. Sch. Sci., Kyushu Univ.) ○SUMIKAWA, Keisei; KINOSHITA, Yosshiaki; YAMAMOTO, Eiji; MURAYAMA, Haruno; TOKUNAGA, Makoto
- 2B9-36*** One-pot Oxidative Sulfonamide Synthesis by a High-Surface-Area β -MnO₂ Nanocatalyst (MSL, Tokyo Tech.) ○HAYASHI, Eri; YAMAGUCHI, Yui; KITA, Yuseke; KAMATA, Keigo; HARA, Michikazu
- 2B9-38** Aerobic Oxidation of Alcohols with Molecular Oxygen by a High-Surface-Area β -MnO₂ Nanocatalyst (MSL, Tokyo Tech.) ○AONO, Ryusei; YAMAGUCHI, Yui; HAYASHI, Eri; KAMATA, Keigo; HARA, Michikazu

Chair: YAMAMOTO, Eiji (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2B9-40, 2B9-41, 2B9-43, 2B9-45)
- 2B9-40** Synthesis of oxalic acid diesters using Cu/N-oxyl-catalyzed selective oxidative esterification (Fac. Eng., The Univ. of Tokyo) ○MORINO, Yusuke; YATABE, Takafumi; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 2B9-41*** Unusual Regioselective α -Alkynylation of Tertiary Amines by Au Nanoparticles and Zn Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○YATABE, Takafumi; MIZUNO, Noritaka; YAMAGUCHI, Kazuya
- 2B9-43*** Hydroxalate-supported Ag-Pd bimetallic nanoclusters catalyzed oxidation and one pot aldol reaction in water (Inst. Bio. Sci., Tokushima Univ.) ○Karanjit, Sangita; TAMURA, Ayumu; KASHIHARA, Masaya; USHIYAMA, Kazuki; NAKAYAMA, Atsushi; NANBA, Kosuke
- 2B9-45*** Hydrogen transfer type aromatization catalyzed by Au/Pd nanoalloy supported on layered double hydroxide (Grad. Sch. Eng., Osaka Univ.) ○CHAOYU, Wang; UETAKE, Yuta; SAKURAI, Hidehiro

Chair: UETAKE, Yuta (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(2B9-47, 2B9-49, 2B9-50, 2B9-51)
- 2B9-47*** Direct synthesis of adipic acid from cyclohexane oxidation reaction using multimetallic alloy subnanocatalyst (IIR, Tokyo Tech.; ERATO, JST; Lab. Chem. Life Sci., Tokyo Tech.) ○MIFTAKHUL, Huda; TANABE, Makoto; YAMAMOTO, Kimihisa
- 2B9-49*** Selective oxidation of glycerol to glyceraldehyde over Pt/CeO₂-ZrO₂

Fe₂O₃/SBA-16 catalysts (Grad. Sch. Eng., Osaka Univ.) ○CHOI, Yeonbin; NUNOTANI, Naoyoshi; IMANAKA, Nobuhito

- 2B9-50** Electrochemical H₂O₂ production by mononuclear cobalt(II) chlorin complex fixed on an FTO electrode with a conductive molecular wire (Grad. Sch. Eng., Osaka City Univ.; OCARINA; Grad. Sch. Arts and Sci., The Univ. of Tokyo; Coll. Life Sci., Ritsumeikan Univ.) ○SAKAMOTO, Gentaro; TABE, Hiroyasu; CHOU, Sheng-ying; MASAI, Hiroshi; TERAOKA, Jun; KINOSHITA, Yusuke; TAMIAMI, Hitoshi; YAMADA, Yusuke
- 2B9-51** Hydrolysis of L-Leucyl-p-nitroanilide hydrochloride by metalloprotease mimicking Cu complex (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SHIRAKI, Shiori; MOTOKURA, Ken; MANAKA, Yuichi

Tuesday, March 24, AM

Hydrogenation

Chair: YASUTAKA, Kuwahara (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3B9-01, 3B9-02, 3B9-03, 3B9-04, 3B9-05, 3B9-06)
- 3B9-01** Study on novel CO₂ hydrogenation catalyst for C₂+ alcohols production (Tokyo Univ. of Agri. and Technol.) ○NGUYEN, Thanh Tung; QIAN, Eika
- 3B9-02** Effect of Acidic Feature of Support on Performance of Catalysts in Production of Monocyclic Aromatic Compounds (BASE, Tokyo Univ. of Agri. and Technol.) ○SADAMOTO, Ryo; QIAN, Eika
- 3B9-03** Production of Bio-jet Fuel Using Bifunctional Hydrotreating Catalyst (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KAWANO, Yusei; KIM, Kihoon; NGUYEN, Thanh Tung; QIAN, Eika
- 3B9-04** *n*-Heptane isomerization over AlPO₄-modified Pt/H-BEA catalysts at low temperature. (Fac. Eng., Saitama Inst. of Tech.) ○NOZAWA, Yuki; NOZAWA, Yuki
- 3B9-05** Active species over V-modified Mo/H-MFI catalysts for methane dehydroaromatization (Fac. Eng., Saitama Inst. of Tech.) ○GASAWARA, Keto; MOGI, Subaru; KATO, Aoi; ○ARITANI, Hirofumi
- 3B9-06** Effect of preparation condition on structure and cracking reactivity of hierarchical catalysts with simultaneous generation of ZSM-5 and silica by gel skeletal reinforcement (Grad. Sch. Eng., Mie Univ.; Mie Pref. Ind. Res. Inst.) ○ISHIHARA, Atsushi; OSHIMURA, Haruna; MORI, Kazuya; HASHIMOTO, Tadanori; MATSUURA, Shinya

Chair: ARITANI, Hirofumi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3B9-08, 3B9-10, 3B9-11, 3B9-12)
- 3B9-08*** Development of porous hollow silica catalyst encapsulating aminopolymers for efficient formic acid production from CO₂ (Grad. Sch. Eng., Osaka Univ.) ○YASUTAKA, Kuwahara; FUJIE, Yuki; YAMASHITA, Hiromi
- 3B9-10** Mechanistic Insight into a Formic acid Disproportionation catalyzed by an Iridium complex Immobilized on Bipyridine-Periodic Mesoporous Organosilica (Toyota Central R&D Labs., Inc.) ○YAMAGUCHI, Sho; HASHIMOTO, Shunsuke
- 3B9-11** Hydrogen production process based on formic acid decomposition with platinum nanoparticles catalyst. (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○MINAMI, Yusuke; IKEYAMA, Shusaku; AMAO, Yutaka
- 3B9-12*** Selective Synthesis of Hydrogen Isotope Gases and Tunneling Effect in the Dehydrogenation of Formic Acid (Grad. Sch. Eng., Osaka Univ.; ESICB Kyoto Univ.; KIT) ○MORI, Kohsuke; FUTAMURA, Yuya; MASUDA, Shinya; KOBAYASHI, Hisayoshi; YAMASHITA, Hiromi

Chair: AMAO, Yutaka (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(3B9-15, 3B9-16, 3B9-17, 3B9-18)
- 3B9-15** Analysis of reaction mechanism of reverse water gas shift reaction on alumina-supported platinum catalyst (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○KAWADA, Ryuji; YAMAMOTO, Akira; YOSHIDA, Hisao
- 3B9-16** Study on Fe-based oxides effective for hydrogenation of CO₂ (Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○MATSUO, Hiroki; KIKKAWA, Soichi; TERAMURA, Kentaro; HOSOKAWA, Saburo; ASAKURA, Hiroyuki; TANAKA, Tshunhiro
- 3B9-17** Enhanced activity of PdAg/TiO₂ catalyst by the modification with MOF in the hydrogenation of CO₂ (Grad. Sch. Eng., Osaka Univ.) ○KONISHI, Atsushi; MORI, Kohsuke; YAMASHITA, Hiromi
- 3B9-18** Catalytic ethanol synthesis by CO₂ hydrogenation (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○SAITO, Ryuichi; PAUL, Bappi; TAKEYASU, Kotoro; FUJITANI, Tadahi; NAKAMURA, Junji

Tuesday, March 24, PM

Chair: MORI, Kosuke (13 : 30~14 : 10)

- * 13:20-13:30: interval for laptop PC connection.(3B9-28, 3B9-29, 3B9-30, 3B9-31)
- 3B9-28** Acceleration of nucleophilic addition reactions in silica mesopore and structural investigation on the accumulated active species (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWASHIMA, Sae; NAMBO, Masayuki; CHUN, Wang-jae; MANAKA, Yuichi; MOTOKURA, Ken

- 3B9-29** Dehydrogenative coupling of alkane and benzene by concerted catalysis between noble metal and solid acid (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKABATAKE, Moe; NAMBO, Masayuki; MANAKA, Yuichi; MOTOKURA, Ken
- 3B9-30** Solid base-supported Fe catalyst for one-pot synthesis of quinoline derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OZAWA, Nao; CHUN, Wang-jae; MANAKA, Yuichi; MOTOKURA, Ken
- 3B9-31[#]** Chromium(III)-catalyzed C(sp²)-H Alkynylation and Allylation of Secondary Amides with Trimethylaluminum as Base (Grad. Sch. Sci., The Univ. of Tokyo) ○CHEN, Mengqing; SHANG, Rui; NAKAMURA, Eiichi

Preparation

Chair: MOTOKURA, Ken (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(3B9-33, 3B9-34, 3B9-35, 3B9-36, 3B9-37, 3B9-38)
- 3B9-33** Development of reversible catalyst based MOF for formic acid/CO₂ interconversion reaction. (Grad. Sch. Eng., Osaka Univ.) ○MATSUO, Jumpei; MORI, Kohsuke; YAMASHITA, Hiromi
- 3B9-34[#]** Preparation of Ultrafine PtNi Nanoparticles in Hollow Porous Carbon Spheres for Remarkable Oxygen Reduction Reaction Activity and Durability (Grad. Sch. Sci., Nagoya Univ.) ○XIAN-KAI, Wan; SAMJESKE, Gabor; MURATSUGU, Satoshi; HIROSUKE, Matsui; TADA, Mizuki
- 3B9-35** Analysis of the chemical state of Pt nanoparticles in mesoporous silica pores prepared by radiation induced reduction method (Grad. Sch. Eng., Osaka Univ.) ○UEGAKI, Naoto; SEINO, Satoshi; KUGAI, Junichiro; FUJIEDA, Shun; NAKAGAWA, Takashi; YAMAMOTO, Takao
- 3B9-36** Size-controlled preparation of metal nanoclusters deposited on citric acid-modified CNF and its application for aerobic oxidation (Grad. Sch. Eng., Osaka Univ.; Facul. Sci., Mahidol Univ.) ○UETAKE, Yuta; THREERAPHAT, Chutimasakul; TANTIRUNGROTECHAI, Jonggol; ASOH, Taka-aki; UYAMA, Hiroshi; SAKURAI, Hidehiro
- 3B9-37** Preparation of Single-site rare earth Eu C₃N₄ and its application (Grad. Sch. Eng., Osaka Univ.) ○MURAKAMI, Takaaki; MORI, Kohsuke; YAMASHITA, Hiromi
- 3B9-38** Synthesis of a Perovskite Oxide through a Low-temperature Crystallization Method and its Oxidation Catalysis (MSL, Tokyo Tech.) ○UEDA, Yuki; SHIBATA, Satomi; KAMATA, Keigo; HARA, Michikazu

Environmental catalysis

Chair: ASAKURA, Hiroyuki (15 : 30~16 : 10)

- * 15:20-15:30: interval for laptop PC connection.(3B9-40, 3B9-41, 3B9-42, 3B9-43)
- 3B9-40[#]** NO reduction Performances of Cr and Rh-incorporated Ceria Catalysts (Grad. Sch. Sci., Nagoya Univ.) ○IKEMOTO, Satoru; MURATSUGU, Satoshi; TADA, Mizuki
- 3B9-41** Evaluation of shape dependency of Mn₂O₃ Catalyst on PM combustion activity (Grad. Sch. Eng., Osaka Univ.) ○KATO, Genki; KUWAHARA, Yasutaka; MORI, Kohsuke; YAMASHITA, Hiromi
- 3B9-42** Selective removal of sulfur compounds in various kinds of shochu by adsorption on Au nanoparticles supported on silica (Fac. Sci., Kyushu Univ.; National Research Institute of Brewing) ○MURAYAMA, Haruno; YAGI, Masatoshi; TAKAKI, Mayu; ISOGAI, Atsuko; IIZUKA, Sachiko; TOKUNAGA, Makoto
- 3B9-43** Removal of dimethyltrisulfane by recycling-flow system with supported Au nanoparticles (Fac. Sci., Kyushu Univ.) MURAYAMA, Haruno; KOMIYA, Shinsei; YAMAMOTO, Eiji; ISOGAI, Atsuko; IIZUKA, Sachiko; ○TOKUNAGA, Makoto

Chair: TUBE, Hiroyasu (16 : 20~17 : 40)

- * 16:10-16:20: interval for laptop PC connection.(3B9-45, 3B9-46, 3B9-47, 3B9-48, 3B9-50, 3B9-51)
- 3B9-45** Catalytic Oxidative Reactions using Subnano Copper Oxides and their Alloy Particles (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○FUKATSU, Tomoya; SONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa
- 3B9-46** Catalytic CO oxidation using subnano copper oxide particles (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○IRIUCHIJIMA, Takahiro; KOIZUMI, Hiromu; TANABE, Makoto; YAMAMOTO, Kimihisa
- 3B9-47** Proposal of superior heterogeneous catalysts "Quasi-MOFs" (-NIT, Toyama College) ○TSUMORI, Nobuko; CHEN, Liyu; XU, Qiang
- 3B9-48[#]** Informatics study on Methane Activation on binary alloy (IMCE, Kyushu Univ.) ○YOSHIDA, Masataka; SAITOU, Masashi; KAMACHI, Takashi; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 3B9-50** Theoretical study of methane activation by zinc-exchanged zeolite (IMCE, Kyushu Univ.) ○TANAKA, Seiya; MAHYUDDIN, Haris; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 3B9-51[#]** Shape dependent electrochemical and optical properties of TiO₂ nanoparticles (Sc. Sci, Tokyo Tech.) ○JUHASZ, Gergely

Wednesday, March 25, AM

Analysis/Theory

Chair: EGAWA, Chikashi (9 : 00 ~ 9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(4B9-01, 4B9-03, 4B9-04, 4B9-05)
- 4B9-01[#]** Dynamic behavior and decomposition property of methanol adsorbed on a Pt/TiO₂(110) model catalyst surface (Inst. for Cat., Hokkaido Univ.) ○LIU, Can; TAKAKUSAGI, Satoru; OGURA, Shohei; ARIGA-MIWA, Hiroko; FUKUTANI, Katsuyuki; ASAKURA, Kiyotaka
- 4B9-03[#]** The investigation of valence state and structure change Pt Nanoparticles on HOPG by a Bent Crystal Laue Analyzer Enhanced Back-Illuminated X-ray Absorption Fine Structure method (Grad. Sch. Eng., Hokkaido Univ.) ○DONG, Kaiyue; HU, Bing; LU, Bang; RASHID, Md Harun Al; TAKAKUSAGI, Satoru; MIYABAYASHI, Keiko; HIGASHI, Kotaro; URUGA, Tomoya; IWASAWA, Yasuhiro; ASAKURA, Kiyotaka
- 4B9-04[#]** Development of *operando* PTRF-XAFS technique for 3D structure determination of active metal species on a model catalyst surface under working conditions (Inst. for Cat., Hokkaido Univ.) ○LU, Bang; TAKAKUSAGI, Satoru; KIDO, Daiki; SATO, Yuta; IWASAKI, Masaya; ASAKURA, Kiyotaka
- 4B9-05** Operando-XAFS analysis of adsorbed species on supported platinum catalyst in ethylene hydrogenation (Grad. Sch. Human and Environ. Stud., Kyoto Univ.; ESICB, Kyoto Univ.) ○FUJITA, Masami; YAMAMOTO, Akira; YOSHIDA, Hisao

Chair: TAKAKUSAGI, Satoru (10 : 00~10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(4B9-07, 4B9-08, 4B9-09, 4B9-10)
- 4B9-07** Ammonia decomposition on transition metal single-crystal surfaces (Fac. Eng., Utsunomiya Univ.) ○EGAWA, Chikashi
- 4B9-08** Observation of reaction intermediates of CO₂ hydrogenation on Cu-based catalyst (Sch. Sci. Eng., Univ. of Tsukuba; IRC3, AIST) ○KOJIMA, Ryusei; KAN, Akito; TAKEYASU, Kotaro; KONDO, Takahiro; FUJITANI, Tadahiyo; NAKAMURA, Junji
- 4B9-09** Analysis of oxidation state of tungsten oxide catalyst by *in situ* resonance frequency analysis under microwave irradiation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIGUCHI, Tomoki; MATSUZAWA, Tomoki; TSUBAKI, Shuntaro; WADA, Yuji
- 4B9-10** Preparation of porous palladium and its surface structure (KIT) ○TERAJI, Satoshi; NAKANISHI, Hideyuki; NORISUYE, Tomohisa; TRAN-CONG-MIYATA, Qui
- Chair: TSUJI, Yuta (10 : 50~11 : 40)
- * 10:40-10:50: interval for laptop PC connection.(4B9-12, 4B9-13, 4B9-15)
- 4B9-12** Model Building of Slab and Cluster Models for Three-way Catalyst Pd/SrTiO₃ (Sch. Eng., Kyoto Univ.; FIFC, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; ESICB, Kyoto Univ.) ○ANMA, Yota; OTA, Wataru; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro; SATO, Tohru
- 4B9-13[#]** Linear Correlations between Adsorption Energies and HOMO Levels for the Adsorption of Small Molecules on TiO₂ Surfaces (Fac. Eng., FIT) ○KAMACHI, Takashi; TATSUMI, Toshinobu; TOYAO, Takashi; HINUMA, Yoyo; MAENO, Zen; TAKAKUSAGI, Satoru; FURUKAWA, Shinya; TAKIGAWA, Ichigaku; SHIMIZU, Ken-ichi
- 4B9-15^{*}** Theoretical study on properties of metal oxide surface having the step-edge structure (Fac. Eng., FIT) ○HAMAMOTO, Nobutsugu; HINUMA, Yoyo; KAMACHI, Takashi

Room C1

Lecture Hall Bldg. K301

Colloid and Interface Chemistry

Sunday, March 22, AM

Fine Particles and Colloidal Dispersions

Chair: SAKAMOTO, Masanori (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(1C1-04, 1C1-05, 1C1-06, 1C1-07, 1C1-08)
- 1C1-04** Hole formation inside block copolymer particles with microphase separation structure by irradiation UV light (Fac. Eng., TUS) ○AKASAKA, Hiroki; WANG, Ke-hsuan; IMURA, Yoshiro; KAWAI, Takeshi
- 1C1-05** Preparation of supported Au-Pd nanoflowers and its catalytic property (Fac. Eng., TUS) ○TANAKA, Masami; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi
- 1C1-06** Preparation and catalytic property of Au nanoflowers supported on

- CeO₂ (Fac. Eng., TUS) ○KURIHARA, Yusuke; IMURA, Yoshiro; WANG, Ke-hsuan; KAWAI, Takeshi
- 1C1-07** Syntheses of Pd Nanoparticles and phosphoric acids inside MOF (FIRST, Konan Univ.) ○TETSUSASHI, Seiko; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 1C1-08*** Syntheses and specific structures of Mo clusters by the precise assembly (JST-ERATO) ○WAKIZAKA, Masanori; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: IMURA, Yoshiro (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(1C1-11, 1C1-12, 1C1-13, 1C1-15)
- 1C1-11** Synthesis and magnetic properties of ternary Fe-Ni-Pd alloy nanoparticles (ICR, Kyoto Univ.; Center for Liberal Arts Education, Meio University) ○KANEKO, Ryota; SATO, Ryota; TATETSU, Yasutomi; TERANISHI, Toshiharu
- 1C1-12** Formation of superstructures by self-assembly of nickel phosphide nanoparticles in solution phase (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKAGAWA, Fumiko; SARUYAMA, Masaki; TERANISHI, Toshiharu
- 1C1-13**** Shape and Element Dependent Crystal Structural Transformation of Ionic Nanocrystals in Cation Exchange Reaction (Dep. Chem., Sch. Sci., Kyoto Univ.) ○LI, Zhanzhao; SARUYAMA, Masaki; TERANISHI, Toshiharu
- 1C1-15*** Synthesis of gold(III) porphyrin-based ligand for constructing metal cluster suprastructures (Dep. Chem., Sch. Sci., Kyoto Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○CHIGA, Yuki; TANAKA, Hiroki; HAKETA, Yohei; SAKAMOTO, Masanori; MAEDA, Hiromitsu; TERANISHI, Toshiharu

Sunday, March 22, PM

Chair: NISHI, Hiroyasu (12 : 50~13 : 50)

- * 12:40-12:50: interval for laptop PC connection.(1C1-24, 1C1-25, 1C1-26, 1C1-27, 1C1-29)
- 1C1-24** Synthesis and characterization of Mo-Ru alloy nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.) ○OKAZOE, Shinya; KUSADA, Kouhei; YAMAMOTO, Tomokazu; TORIYAMA, Takaaki; MATSUMURA, Syo; KAWAGUCHI, Shogo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi
- 1C1-25** Synthesis and characterization of face-centered cubic osmium nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.) ○WAKISAKA, Takuo; KUSADA, Kouhei; YAMAMOTO, Tomokazu; TORIYAMA, Takaaki; MATSUMURA, Syo; KAWAGUCHI, Shogo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi
- 1C1-26*** Observation of the Formation Processes of Hexagonal Close-Packed and Face-Centered Cubic Ru Nanoparticles (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ARAKI, Naoki; KUSADA, Kohei; YOSHIOKA, Satoru; SUGIYAMA, Takeharu; INA, Toshiaki; KITAGAWA, Hiroshi
- 1C1-27**** Enhanced Catalytic Activity of 4d Transition-Metal Nanoparticles by Coating of Metal-Organic Framework and Its Mechanism (Fac. Sci., Kyoto Univ.) ○AOYAMA, Yoshimasa; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi
- 1C1-29** Synthesis of water-dispersible single-nanometer-sized iron nanoparticles in liquid/liquid dispersion system by femtosecond laser irradiation (Grad. Sch. Sci., Osaka City Univ.) ○HORIKAWA, Yuki; OKAMOTO, Takuya; NAKAMURA, Takahiro; SAKOTA, Kenji; YATSUHASHI, Tomoyuki

Chair: KOBAYASHI, Hirokazu (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(1C1-31, 1C1-32, 1C1-33, 1C1-34, 1C1-36)
- 1C1-31** Self-organizing monodispersed Au nanorods with liquid-crystalline dendrons (IMRAM, Tohoku Univ.) ○HORAI, Riko; YACHI, Takehiro; MATSUBARA, Masaki; MITOMO, Hideyuki; MURAMATSU, Atsushi; KANIE, Kiyoshi
- 1C1-32*** Self-alignment Structure Control of Fe₃O₄ Magnetic Nanoparticles by Surface Modification with Liquid-Crystalline Dendron (IMRAM, Tohoku Univ.) ○YACHI, Takehiro; MATSUBARA, Masaki; MURAMATSU, Atsushi; KANIE, Kiyoshi
- 1C1-33*** Lyotropic liquid-crystalline behavior of PMMA-modified hexagonal Fe₃O₄ nanoplates in ionic liquids and the alignment control under magnetic field (IMRAM, Tohoku Univ.) ○SHEN, Chen; MATSUBARA, Masaki; YABUSHITA, Mizuho; MAKI, Sachiko; MURAMATSU, Atsushi; KANIE, Kiyoshi
- 1C1-34*** Localized Redox Reactions on Potential-Controlled Au Nanoparticles (IIS, The Univ. of Tokyo) ○NISHI, Hiroyasu; TATSUMA, Tetsu
- 1C1-36** Fabrication of Chiral Nanostructures by Irradiation of Gold Nanocubes with Circularly Polarized Light (IIS, The Univ. of Tokyo) ○SHIMOMURA, Koki; ISHIDA, Takuya; TATSUMA, Tetsu

Chair: KANIE, Kiyoshi (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(1C1-38, 1C1-39, 1C1-40, 1C1-42)
- 1C1-38** Analysis of Deposition Reactions on Metal Nanoparticles Based on Plasmon-Induced Charge Separation (IIS, The Univ. of Tokyo) ○KAWAI, Akari; NISHI, Hiroyasu; TATSUMA, Tetsu
- 1C1-39** Synthesis and assembly formation of polyhedral polymer gel with

- precisely controlled size (Fac. Sci., Hokkaido Univ.) MICHIBATA, Ayano; TAKAGI, Emi; FURUKAWA, Yuki; ○KOKADO, Kenta; SADA, Kazuki
- 1C1-40**** Confinement of nanocarbons within robust networks composed of crystalline cellulose oligomers for applications (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HATA, Yuuki; SAWADA, Toshiaki; SERIZAWA, Takeshi
- 1C1-42**** Amorphous Fullerene Particles as Embedding Materials for Electron Microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○SEKINE, Ryosuke; RAVAT, Prince; YANAGISAWA, Haruaki; KIKKAWA, Masahide; HARANO, Koji; NAKAMURA, Eiichi

Chair: HARANO, Koji (16 : 20~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(1C1-45, 1C1-46, 1C1-47, 1C1-48, 1C1-49, 1C1-50)
- 1C1-45** Development of Atmospheric-pressure Plasma Reactor with Particle Size Controllable for Synthesis of Semiconductor Nanoparticles (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○ISHIKAWA, Misato; HONDA, Kensuke; NARAGINO, Hiroshi
- 1C1-46*** Synthesis of high Rh-substituted epsilon iron oxide nanoparticles (Grad. Sch. Sci., The Univ. of Tokyo) ○TSUKAMOTO, Seiya; HOSODA, Mitsuki; YOSHIKIYO, Marie; NAMAI, Asuka; OHKOSHI, Shin-ichi
- 1C1-47*** Particle size dependence of millimeter-wave absorption property of metal-substituted epsilon iron oxide (Grad. Sch. Sci., The Univ. of Tokyo) ○SHIMIZU, Shoma; YOSHIKIYO, Marie; NAMAI, Asuka; OHKOSHI, Shin-ichi
- 1C1-48** The research of metal-free gold lustrous paint using azobenzene compounds. (Fac. Eng., TUS) ○KATAKURA, Masahiro; SAITO, Norio; KONDO, Yukisige
- 1C1-49** Synthesis of perovskite nanocrystals using gemini type surfactants (Fac. Eng., TUS) ○TANAKA, Keita; SAITO, Norio; KONDO, Yukisige
- 1C1-50** Synthesis of high reflective organic metallic lustrous crystals (Fac. Eng., TUS) ○ONODERA, Katsuki; SAITO, Norio; KONDO, Yukisige

Monday, March 23, AM

Chair: YONAMINE, Yusuke (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2C1-01, 2C1-02, 2C1-03, 2C1-04, 2C1-06)
- 2C1-01** Copper nanocubes synthesized directly on nanosheet functionalized by azobenzene with deposition-desorption method (Grad. Sch. Sci. Eng., Chuo Univ.) ○NISHIYAMA, Yoshiki; MIYAGAWA, Masaya; TANAKA, Hideki
- 2C1-02** Production of copper nanoparticles with zeolite by photoreduction and their catalytic activities (Grad. Sch. Sci. Eng., Chuo Univ.) ○AKIMOTO, Kai; OKUMURA, Kazu; TANAKA, Hideki
- 2C1-03** Surface modification of diameter-controlled Cu nanoparticles with thiol by desorption from support (Grad. Sch. Sci. Eng., Chuo Univ.) ○SAKAGUCHI, Yuya; MIYAGAWA, Masaya; TANAKA, Hideki
- 2C1-04**** Significance in hierarchy of Cu nanoparticles on nanosheet for functionalization (Fac. Sci. Eng., Chuo Univ.; Grad. Sch. Sci. Eng., Chuo Univ.) ○MIYAGAWA, Masaya; KOTAKE, Hitomi; NISHIO, Kengo; HIGASHI, Kohei; TANAKA, Hideki
- 2C1-06** Application of bismuth nanoparticles synthesized using thiols as oxidation catalyst for thiols (Grad. Sch. Sci., Eng., Yamagata Univ.) ○YASHIRO, Takumi; MATSUMURA, Yoshimasa; OCHIAI, Bungo

Chair: MIYAGAWA, Masaya (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(2C1-08, 2C1-09, 2C1-11, 2C1-12)
- 2C1-08** Formation of Elastomer Microspheres Cross-linked with Rotaxane and their Latex Films (Fac. Textile Sci. Technol., Shinshu Univ.) ○SASAKI, Yuma; HIROSHIGE, Seina; SAWADA, Jun; AOKI, Daisuke; TAKATA, Toshikazu; SUZUKI, Daisuke
- 2C1-09**** Nanocomposite Hydrogel Microspheres functionalized by seeded emulsion polymerization in the presence of microgels (Fac. Textile Sci. Technol., Shinshu Univ.) ○WATANABE, Takumi; NOGUUCHI, Tetsuya; SONG, Chihong; MURATA, Kazuyoshi; SUZUKI, Daisuke
- 2C1-11** Orientation change of gold nanorods depending on pH (Grad. Sch. Life Sci., Hokkaido Univ.) ○SEKIZAWA, Yu; MITOMO, Hideyuki; NAKAMURA, Satoshi; YONAMINE, Yusuke; IJIRO, Kuniharu
- 2C1-12** Curvature-dependent assembly of gold nanoparticles using cyclodextrin addition (Grad. Sch. Life Sci., Hokkaido Univ.) ○XIONG, Kun; MITOMO, Hideyuki; YONAMINE, Yusuke; IJIRO, Kuniharu

Chair: SATO, Ryota (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(2C1-14, 2C1-15, 2C1-16, 2C1-17)
- 2C1-14** Incorporation Reaction of Polypeptides Bearing Hydrophobic Side Chains into Interior Space of Hollow Silica Nanorods and Evaluation of Their Water Dispersibility (Fac. Sys. Eng., Wakayama Univ.) ○OKAYAMA, Tatsuya; NAKAHARA, Yoshio; YAJIMA, Setsuko
- 2C1-15** Coalescence of Cu@Ag Nanoparticles in an Organic Solvent Containing a Sintering Agent and a Reducing Agent (Fac. Sys. Eng., Wakayama Univ.; ORIST) ○OKADA, Soichiro; NAKAHARA, Yoshio; WATANABE, Mitsuru; TAMAI, Toshiyuki; KOBAYASHI, Yasuyuki; YAJIMA, Setsuko
- 2C1-16** Synthesis and Characterization of Hollow Porous Silver Nanoshell

(Fac. Sys. Eng., Wakayama Univ.) OKADO, Shinpei; NISHIURA, Masashi; YAJIMA, Setsuko

- 2C1-17** Size Discrimination of Au Nanoparticles by Photothermal Microscopy with Multiwavelength Excitation Light (Fac. Sys. Eng., Wakayama Univ.) ONAKAHARA, Yoshio; MIYAZAKI, Jun; NISHINAKA, Nobuki; IENAGA, Takashi; YAJIMA, Setsuko

Monday, March 23, PM

Chair: KADO, Shinpei (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(2C1-34, 2C1-35, 2C1-36, 2C1-38)
- 2C1-34** Precise Separation and Optical Properties of Cadmium Chalcogenide Clusters (ICR, Kyoto Univ.) OTAKAHATA, Ryo; SARUYAMA, Masaki; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 2C1-35** Novel Plasmonic Nanoalloys (ICR, Kyoto Univ.; Inst. for Cat., Hokkaido Univ.; Fac. Sci., TUS) OSATO, Ryota; IIDA, Kenji; KAWAWAKI, Tokuhisa; HARUTA, Mitsutaka; KURATA, Hiroki; TERANISHI, Toshiharu
- 2C1-36[#]** Development of Janus porphyrin protected gold cluster (Dep. Chem., Sch. Sci., Kyoto Univ.) OKAMOTO, Yasuo; SAKAMOTO, Masanori; TERANISHI, Toshiharu
- 2C1-38[#]** Synthesis and Plasmonic Properties of Pseudo-Coinage Alloy Nanoparticles (ICR, Kyoto Univ.; Inst. for Cat., Hokkaido Univ.; Fac. Sci., TUS) Otakekuma, Haruka; SATO, Ryota; IIDA, Kenji; KAWAWAKI, Tokuhisa; TERANISHI, Toshiharu

Chair: MITOMO, Hideyuki (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(2C1-41, 2C1-42, 2C1-43, 2C1-44, 2C1-45)
- 2C1-41** Soft Template Synthesis and Morphological Control of Chiral Gold Nanowires (ORIST; Fac. Eng., TUS) ONAKAGAWA, Makoto; KAWAI, Takeshi
- 2C1-42** Growth Mechanism of Gold Nanorods in a Seed-Mediated Growth Method: Effect of Additives on the Growth (Aichi Univ. of Educ.) OYAMAGUCHI, Yoshihiro; FUKAGAWA, Toshiaki; HINO, Kazuyuki
- 2C1-43[#]** Preparation of PVP-Stabilized Gold Nanoparticles in Various Organic Solvents by Laser Ablation (Grad. Sch. Eng., Osaka Univ.) OHETTARACHCHI, Barana; UETAKE, Yuta; YAKIYAMA, Yumi; SAKURAI, Hidehiro
- 2C1-44** Photo-Mediated Growth of Silver Nanodisks from Silver Seeds Prepared in the Presence of Anionic Surfactants (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ONISHIKIORI, Kazuki; SATO, Tomoo
- 2C1-45[#]** A study on phase transfer mechanism of AMIET-coated gold nanoparticles (Grad. Sch. Eng., Utsunomiya Univ.) ONAHID, Md. Abdullah Al; IIMURA, Ken-ichi

Chair: SATO, Tomoo (16 : 40~17 : 10)

- * 16:30-16:40: interval for laptop PC connection.(2C1-47, 2C1-49)
- 2C1-47[#]** Unique Properties and Functions of Binary Sub-nanoparticle Induced by Composition Effect (Lab. Chem. Life Sci., Tokyo Tech.) OTSUKAMOTO, Takamasa; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 2C1-49** Optimization of Shell-Thickness for Improved Photoluminescence Properties of Green-Emitting InP/ZnS Core/Shell Quantum Dots. (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; MANA, NIMS) ONEMOTO, Kazuhiro; NAOTO, Shirahata

Tuesday, March 24, AM

Chair: SUGAWA, Kosuke (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(3C1-01, 3C1-02, 3C1-03, 3C1-04)
- 3C1-01** Synthesis and O₂-Binding Property of Hemoglobin Nanoparticles (Fac. Sci. Eng., Chuo Univ.) OHASEGAWA, Mai; OKAMOTO, Wataru; MORITA, Yoshitsugu; KOMATSU, Teruyuki
- 3C1-02** Hydrothermal Synthesis of Defect-Induced Fluorescent Silica Nanoparticles (Grad. Sch. Sci. and Eng., Kansai Univ.) OSAITA, Satoshi; KAWASAKI, Hideya
- 3C1-03** Analysis of silicate structure in water glass and influence on rheological properties (Fac. Sci., Shinshu Univ.; Fuji chemical.Co., LTD.) O MATSUYAMA, Yushi; SASAHARA, Shigeo; SAITO, Arisa; OZEKI, Sumio

New fields and Others

- 3C1-04** Preparation of metal-free sugar chain immobilized fluorescent carbon nanoparticles (Grad. Sch. Sci., Eng., Kagoshima Univ.) OMANABE, Yoshiaki; SHINCHI, Hiroyuki; WAKAO, Masahiro; SUDA, Yasuo

Solid Surfaces and Interfaces

Chair: YUMURA, Takashi (9 : 50 ~10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(3C1-06, 3C1-07, 3C1-08, 3C1-09, 3C1-10, 3C1-11)

- 3C1-06** Effect of Peptide Modification Methods on Formation of Hydroxyapatite Layers on Substrate Surfaces Utilizing Peptides (Fac. Eng., TUS; Grad. Sch. Eng., TUS; Fac. Sci. Tech., Keio Univ.) OSAKANE, Naoto; KAMEI, Sayaka; TANAKA, Shun; YATAKA, Yusuke; MATSUBARA, Tetuhiko; SATO, Toshinori; HASHIZUME, Mineo

- 3C1-07** Thermal conductive behavior of a highly oriented multilayer film composed of a tripodal paraffinic triptycene (Lab. Chem. Life Sci., Tokyo Tech.) OIMAZUMI, Takaki; ISHIWARI, Fumitaka; TAKEHARA, Ryosuke; YAGI, Takashi; YAMASHITA, Yuichiro; SHOJI, Yoshiaki; FUKUSHIMA, Takanori

- 3C1-08** Structure of Concentrated Polymer Brushes under Applied Load and Shear (NICHC, Tohoku Univ.; IMRAM, Tohoku Univ.; ICR, Kyoto Univ.) OTAKAHASHI, Yutaka; MIZUKAMI, Masashi; TSUJII, Yoshinobu; KURIHARA, Kazue

- 3C1-09** Surface Modification of Carbon Sheet Materials with Polyelectrolytes Using Solution Processes (Fac. Eng., TUS) OSANGAWA, Takuya; YATAKA, Yusuke; HASHIZUME, Mineo

- 3C1-10** Evaluation of Adhesion Strength of Polymer-Hydroxyapatite Interfaces (Fac. Eng., TUS) OYABUSAKI, Seri; IKEMURA, Mitsumasa; YATAKA, Yusuke; HASHIZUME, Mineo

- 3C1-11[#]** Effect of Surface and Shear on Orientation of Nano-confined Smectic-A Liquid Crystal Studied by Synchrotron X-Ray Diffraction (IMRAM, Tohoku Univ.; JASRI; NICHC, Tohoku Univ.) OMIZUKAMI, Masashi; TOMITA, Kazuhiro; OHTA, Noboru; YAGI, Naoto; KURIHARA, Kazue

Chair: HASHIZUME, Mineo (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(3C1-13, 3C1-14, 3C1-16, 3C1-17)

- 3C1-13** Shear Velocity Dependence of Viscosity of Nano-confined Liquids with Various Molecular Structures (NICHC, Tohoku Univ.; IMRAM, Tohoku Univ.) OSHIBUYA, Yuuta; MIZUKAMI, Masashi; KURIHARA, Kazue

- 3C1-14[#]** Disproportionation of non-aqueous mixed solutions on metal oxide surfaces (Grad. Sch. Eng., Kobe Univ.) OSUZUKI, Yoshimasa; KASUYA, Motohiro; MAKI, Hideshi; MATSUI, Masaki; KURIHARA, Kazue; MIZUHATA, Minoru

- 3C1-16** QM/MM ONIOM calculations for the reaction of hydrogen sulfide with dioxygen molecule inside zeolite (KIT) OOISHI, Keigo; UCHIDA, Masato; YUMURA, Takashi

- 3C1-17** DFT calculation on formation of self-assembled monolayer based on ferrocenecarboxylic acid (KIT) OMIYAMURA, Ryoga; YUMURA, Takashi

Asian International Symposium - Colloid and Surface Chemistry -

Tuesday, March 24, PM

Chair: Imura, Ken-ichi (13 : 00~13 : 50)

- 3C1-25[#] Asia Special Lecture** Artificial Organelles based on Biological Motors for Biosynthesis (Chinese Academy of Sciences) OLi, Junbai (13:00~13:30)

- 3C1-28[#] Invited Lecture** Functionalization of Photoresponsive Molecular Assemblies using the Inner Environments (Tokyo Univ. of Science) O Akamatsu, Masaaki (13:30~13:50)

Chair: Ohkubo, Takahiro (14 : 00~15 : 00)

- 3C1-31[#] Invited Lecture** In-operando X-ray reflectivity studies on temperature responses of ultrathin polymer films (Univ. of Tsukuba) O Liu, Yuwei (14:00~14:20)

- 3C1-33[#] Invited Lecture** Model-potential-free analysis of structure factor : Acquisition of potential between particles and its applications (Meijo Univ.) O Amano, Ken-ichi (14:20~14:40)

- 3C1-35[#] Invited Lecture** Self-assembled Mesoporous Nano- or Micro-structure for Energy Storage and Sensing Application (National Inst. for Materials Science) OMaji, Subrata (14:40~15:00)

Chair: Murakami, Ryo (15 : 10~16 : 10)

- 3C1-38[#] Keynote Lecture** Soft Particles at Interfaces: Phenomena, Structure and Opportunities in Food Applications (The Chinese Univ. of Hong Kong) ONgai, To (15:10~15:40)

- 3C1-41[#] Invited Lecture** Stabilization and Immobilization of Colloidal Metal Nanoparticles: Organic Bond Transformations under Mild Condition (Tokushima Univ.) OKaranjit, Sangita (15:40~16:00)

Chair: Shrestha, Lok Kumar (16 : 10~17 : 10)

- 3C1-44[#] Invited Lecture** Influence of Organic Molecule Integration on Formation of Electrodeposited Nickel Oxide Oxygen Evolution Catalysts (Tokyo Univ. of Science) OWang, Ke-Hsuan (16:10~16:30)

- 3C1-46[#] Invited Lecture** Development of new synthetic methodologies for metal nanoparticle/MOF hybrids (Konan Univ.) OTakashima, Yohei (16:30~16:50)

- 3C1-48[#] Invited Lecture** Colorimetric Thrombin Sensor using DNA Aptamer-modified Gold Nanoparticles (The Univ. of Tokyo) OChuaychob, Surachada (16:50~17:10)

Colloid and Interface Chemistry

Wednesday, March 25, AM

Solid Surfaces and Interfaces

Chair: OHBA, Tomonori (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4C1-01, 4C1-02, 4C1-03, 4C1-05, 4C1-06)

4C1-01 Effect of clay surface on aldehyde-diol equilibrium (Fac. Urban Env. Sci., TMU) ○ARAKAWA, Kyosuke; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke

4C1-02 Study on specific gas adsorption properties of microporous boron nitride and its surface states (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KIMURA, Jun; OHKUBO, Takahiro; KURODA, Yasushige

4C1-03[#] Stretchable SWCNT/PDMS film (Shinshu Univ.) AHUJA, Preety; UJHAIN, Sanjeev; KUKOBAT, Radovan; HAYASHI, Takuya; ○KANEKO, Katsumi

4C1-05[#] Structure and properties of weakly transparent SWCNT net (RISM, Shinshu Univ.) YAMADA, Mayu; ○KUKOBAT, Radovan; STEVIC, Dragana; HATTORI, Yoshiyuki; KANEKO, Katsumi

4C1-06 Elucidation of restricted states by structural and vibrational analysis of anion species adsorbed on SWCNT (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) NAKAYASU, Hiroki; ○OHKUBO, Takahiro; KURODA, Yasushige

Chair: OHKUBO, Takahiro (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4C1-08, 4C1-09, 4C1-10, 4C1-11, 4C1-12, 4C1-13)

4C1-08 Electrolyte Dynamics in Electric Double Layer Capacitors in Wedge-shaped Carbon Pores using Molecular Dynamics Simulations (Fac. Sci., Chiba Univ.) ○TAKAMATSU, Hiroki; OHBA, Tomonori

4C1-09[#] Water permeation through graphene nanowindows (RISM, Shinshu Univ.) ○TANAKA, Hideki; VALLEJOS-BURGOS, Fernando; TESHIMA, Katsuya; KANEKO, Katsumi

4C1-10 Considerable Hydrophobicity on Graphene Interfaces along Water Vapor Adsorption (Fac. Sci., Chiba Univ.) ○SEKI, Ryuichi; OHYA, Yoshifumi; OHBA, Tomonori

4C1-11 Morphology and Surface Area Engineering toward Iron-Nickel Electrocatalysts Based on Polystyrene Colloidal Templates (Fac. Eng., TUS) ○NAGATSUKA, Ryoya; WANG, Ke-hsuan; IMURA, Yoshiro; KAWAI, Takeshi

4C1-12 Sulfobetaine-modified diamond electrode prepared by electron beam grafting (Fac. Sci. Technol., TUS) ○HIRABARA, Takuma; KONDO, Takeshi; TOJO, Toshifumi; YUASA, Makoto

4C1-13 Fabrication of gold-silver nanoparticle mixed thin-films and their synergy effect on SERS (Sch. Eng., The Univ. of Shiga Pref.) ○KOYAMA, Natsuki; BANYA, Shoto; AKIYAMA, Tsuyoshi; OKU, Takeo

Chair: MINAMIMOTO, Hiro (11 : 20 ~ 12 : 00)

* 11:10-11:20: interval for laptop PC connection.(4C1-15, 4C1-16, 4C1-18)

4C1-15 Direct detection of bimetallic subnanoparticles by high sensitivity Raman spectroscopy (Lab. Chem. Life Sci., Tokyo Tech.) ○SAITO, Masakazu; TANG, Yuansen; YAMADA, Yuki; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa

4C1-16[#] In Situ detection of Pt subnanoparticles by Dual-isolated Nanoparticle-enhanced Raman Spectroscopy (Lab. Chem. Life Sci., Tokyo Tech.) ○TANG, Yuansen; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa

4C1-18 Single Gold Nanoparticle-Heating-Induced Microdroplet Formation via Phase Separation of Binary Mixtures (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.; Dept. of Chem. & Mater. Sci., NIT, Gunma College) ○HASHIMOTO, Shuichi; KATOH, Tatsuki; AIBARA, Issei

Wednesday, March 25, PM

Chair: ISHIDA, Tamao (13 : 10 ~ 14 : 10)

* 13:00-13:10: interval for laptop PC connection.(4C1-26, 4C1-28, 4C1-29, 4C1-31)

4C1-26[#] Optical properties of Green lacewing wings with random height surface protrusions (Grad. Sch. Sci., Eng., Yamagata Univ.; Coll. Sci. Eng., Aoyama Gakuin Univ.; Coll. Sci. Eng., Ritsumeikan Univ.) ○YOSHIDA, Kazunari; TAKAHASHI, Leona; TAKASHIMA, Akito; FUJII, Yasuhiro; NISHIO, Izumi

4C1-28 Development of High sensitivity Shell-isolated nanoparticle-enhanced Raman spectroscopy: Elucidation on the optical properties of amplifiers (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMADA, Yuki; KUZUME, Akiyoshi; YAMAMOTO, Kimihisa

4C1-29[#] Optimisation of Shell-isolated nanoparticle enhanced Raman spectroscopy and beyond (IIR, Tokyo Tech.) ○KUZUME, Akiyoshi; YAMAMOTO, Kimihisa

4C1-31 Enhanced two-photon emission observation of quantum dots with the silver plasmonic chip (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OMURA, Yuki; KANDA, Mai; NAGASUE, Tomoya; TAWA, Keiko

Chair: KUZUME, Akiyoshi (14 : 20 ~ 15 : 10)

* 14:10-14:20: interval for laptop PC connection.(4C1-33, 4C1-34, 4C1-36)

4C1-33 Development of Two-Dimensional Plasmonic Materials for Highly Efficient Light Energy Propagation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OIKAWA, Shunpei; HIRO, Minamimoto; MURAKOSHI, Kei

4C1-34[#] Drug Detection Based on Reactional Wettability Variation of Aptamers (Xiamen Univ.) ○LIN, Changxu; WU, Chenxu

4C1-36[#] Bubble Size Dependence of Contact Angle of CO₂/Brine/Mineral Systems (GSJ, AIST) ○SHIGA, Masashige; AICHI, Masaatsu; SORAI, Masao; HONDA, Hiromi

Room C2 Lecture Hall Bldg. K302

Polymer

Sunday, March 22, AM

Chair: TAKEOKA, Yuko (10 : 00 ~ 10 : 30)

* 9:50-10:00: interval for laptop PC connection.(1C2-07, 1C2-08, 1C2-09)

1C2-07 Preparation and evaluation of polysilsesquioxane-based reverse osmosis membranes containing tertiary amines. (Fac. Sci. Technol., TUS) ○YAKUWA, Raku; YAMAMOTO, Kazuki; GUNJI, Takahiro

1C2-08 Development of organically-bridged polysilsesquioxane reverse osmosis membrane added carboxy group-containing POSS (Fac. Sci. Technol., TUS) ○AMAIKE, Yunosuke; KOZUMA, Tomoya; KANEKO, Yoshiro; YAMAMOTO, Kazuki; GUNJI, Takahiro

1C2-09 Synthesis of unconjugated polypyrroles produced by Brønsted acid-mediated polymerization and their properties (Grad. Sch. Eng., Tokyo City Univ.) ○OTAKI, Keito; NAGAHATA, Hiroki; MORI, Naoto; TAMAKAWA, Shuta; SHIOTSUKI, Masashi

Chair: SHIOTSUKI, Masashi (10 : 40 ~ 11 : 20)

* 10:30-10:40: interval for laptop PC connection.(1C2-11, 1C2-12, 1C2-13, 1C2-14)

1C2-11 Preparation and characterization of scaffold materials using π -conjugated polymers (IV) -Effect of addition of carbon nanofiber on the properties- (Grad. Sch. of Sci. Technol., Sophia Univ.) ○KEGUCHI, Keigo; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

1C2-12 Development of Non-humidified Fuel Cells Using Protic Ionic Liquids (IV) -Effect of fabrication method on membrane properties- (Grad. Sch. of Sci. Technol., Sophia Univ.) ○NAGAI, Masaya; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

1C2-13 Elucidation of Proton Transport Phenomena in Polymer Electrolyte Membranes (I) -Diffusion Anisotropy Evaluation- (Sci. Tec., Sophia Univ.) ○HODA, Yui; KURAHASHI, Naoya; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

1C2-14 Synthesis and evaluation of polyphenylenes having phosphonium groups (II) -Synthesis of Diblock copolymer - (Grad. Sch. of Sci. Technol., Sophia Univ.) ○ARAI, Soichiro; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

Sunday, March 22, PM

Chair: OHTA, Eisuke (14 : 30 ~ 15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1C2-34, 1C2-35, 1C2-37, 1C2-39)

1C2-34 Evaluation of photo-stimuli responsiveness and mechanical properties of supramolecular material functionalized by movable cross-linkers (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.) ○TAMURA, Hiroki; IKURA, Ryohei; OSAKI, Motofumi; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira

1C2-35[#] Design of polymeric materials using movable cross-linking and their mechanical properties (Grad. Sch. Sci., Osaka Univ.) ○IKURA, Ryohei; MURAYAMA, Shunsuke; PARK, Junsu; OSAKI, Motofumi; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira; IKEMOTO, Yuka; MATSUBA, Go

1C2-37[#] Development of Columnar Nanostructured Virus Filtration Membranes Using Two-Component Liquid-Crystalline Molecular Assemblies (Grad. Sch. Eng., The Univ. of Tokyo) ○HAMAGUCHI, Kazuma; KUO, Daniel; LIU, Miaomiao; SAKAMOTO, Takeshi; KATAYAMA, Hiroyuki; KATO, Takashi

1C2-39[#] The Formation of Cholesteric Superstructure of Achiral Polyquinoxaline Based on the Screw-sense Induction by Chiral Solvents: Control of Selective Reflection in the Visible Region (Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ○KAZEKI, Ai; ASHIKAGA, Shunsuke; SUGINOME, Michinori

Chair: SAKAMOTO, Takeshi (15 : 40 ~ 16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1C2-41, 1C2-43, 1C2-44,

1C2-45)

- 1C2-41**** Helix Inversion Kinetics of Poly(quinoxaline-2,3-diyl)s Bearing Chiral Ether Side Chains (Grad. Sch. Eng., Kyoto Univ.) ○FUJIE, Takaya; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1C2-43** Synthesis and Helical Chirality Induction of Poly(quinoxaline-2,3-diyl)s Bearing Hydroxymethyl Groups at 5,8-Positions (Sch. Eng., Kyoto Univ.) ○WAKAYAMA, George; FUJIE, Takaya; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 1C2-44** Induction of Helical Chirality of Foldamer Possessing Triethylene Glycol Chains (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.) ○TSUNO, Takafumi; OHTA, Eisuke; KOGA, Soichiro; TANI, Syuichi; OGAKI, Takuya; MATSUI, Yasunori; IKEDA, Hiroshi
- 1C2-45**** Molecular Design, Synthesis, and Properties of Nature-Mimetic Alternating Peptides (Fac. Eng., Toyama Pref. Univ.) ○IHSAN, Abu Bin; NARGIS, Mahmuda; KOYAMA, Yasuhiro

Monday, March 23, AM

Chair: HATAKEYAMA, Kan (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(2C2-07, 2C2-08, 2C2-09, 2C2-10, 2C2-11)

- 2C2-07** Development of self-doped hydrophilic-hydrophobic conjugated diblock copolymers (I) -Effect of annealing on electronic conductivity- (Sci. Tec., Sophia Univ.) ○CHITOSE, Yukina; NAKANO, Yohei; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 2C2-08** Sensing of biomolecules using cationic π -conjugated polymers (I) -Effect of chain length of alkyl phosphonated side chains- (Sci. Tec., Sophia Univ.) ○UEYAMA, Kaho; SHIMADA, Yui; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 2C2-09** Preparation and characterization of scaffold materials using conducting polymers -Surface characterization- (Sci. Tec., Sophia Univ.) ○HADA, Risako; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 2C2-10** Creation of graphene nanoribbons by oxidation of poly(orthophenylene) (Fac. Textile Sci. Technol., Shinshu Univ.) ○SONOBE, Mashiro; KIMURA, Mutsumi; KITAZAWA, Yu
- 2C2-11*** Synthesis and properties of polythiophenes having alkoxy groups in the side chain at various ratios (Grad. Sch. Eng., Hiroshima Univ.) ○IMAE, Ichiro; TAKAKI, Toru; IMATO, Keiichi; OYAMA, Yousuke

Chair: TAKEOKA, Yuko (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2C2-14, 2C2-18, 2C2-19)

- 2C2-14 CSJ Award for Technical Development** Development of Separator for High-Safety and High-Performance Lithium Ion Secondary Batteries (Asahi Kasei Corp.) ○NISHIMURA, Yoshifumi; KONDO, Takahiko; KAWASOE, Shinya; IKEJIRI, Sumio; NOZAKI, Takashi
- 2C2-18** Charge transfer complexes of poly(1,4-phenylene sulfide) derivatives as solid polymer electrolytes for solid-state lithium-ion batteries (Sch. Advanced Sci. Eng., Waseda Univ.) ○UMEKI, Momoka; KIMURA, Satoshi; HATAKEYAMA, Kan; OYAIU, Kenichi
- 2C2-19** Exploration of Organic Redox-active Polymers for Transparent Organic Rechargeable Devices (Sch. Advanced Sci. Eng., Waseda Univ.) ○SADAKUNI, Karin; MATSUMOTO, Satoshi; HATAKEYAMA, Kan; OYAIU, Kenichi

Monday, March 23, PM

Chair: UBE, Toru (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2C2-28, 2C2-29, 2C2-30, 2C2-31, 2C2-32)

- 2C2-28** Poly(vinyl-diphenylquinoline) as a Charge and Hydrogen Storage Material (Sch. Advanced Sci. Eng., Waseda Univ.) ○KATAOKA, Miho; MURAO, Saki; OKA, Kouki; NISHIDE, Hiroyuki; OYAIU, Kenichi
- 2C2-29** Synthesis of a Polymer Bearing 1,4-Butanediol as a Side Group and Its Dehydrogenation and Hydrogenation (Sch. Advanced Sci. Eng., Waseda Univ.) ○KOBAYASHI, Kazuki; KAIWA, Yusuke; OKA, Kouki; NISHIDE, Hiroyuki; OYAIU, Kenichi
- 2C2-30** Polymer-Assisted Surface Passivation of the Perovskite Layer for Highly Efficient and Durable Perovskite Solar Cells (Sch. Advanced Sci. Eng., Waseda Univ.) ○SUGIYAMA, Haruka; KAMIMORI, Koichiro; SUWA, Koki; SUGA, Takeo; OYAIU, Kenichi; SEGAWA, Hiroshi; NISHIDE, Hiroyuki
- 2C2-31** Vapor Phase Polymerization of EDOT in the Block Copolymer Templates for High-Conductive Polymer Film Formation (Sch. Advanced Sci. Eng., Waseda Univ.) ○KANDA, Yutaro; HAYAKAWA, Masahiro; SUGA, Takeo; OYAIU, Kenichi
- 2C2-32**** Efficient chemical doping of polymeric semiconductors driven by anion exchange (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○YAMASHITA, Yu; TSURUMI, Junto; KUMAGAI, Shohei; KUROSAWA, Tadanori; OKAMOTO, Toshihiro; TAKEYA, Jun; WATANABE, Shun

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

* 14:30-14:40: interval for laptop PC connection.(2C2-35, 2C2-36, 2C2-37, 2C2-38, 2C2-39, 2C2-40)

- 2C2-35*** Synthesis and Photophysical Properties of Conjugated Polymers Containing Boron Dialdimine Complexes (Grad. Sch. Eng., Kyoto Univ.) ○HASHIZUME, Miyako; TANAKA, Kazuo
- 2C2-36*** Synthesis and Physical Property of Conjugated Compound Based on Formazan (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Yoshinori; TANAKA, Kazuo
- 2C2-37** Fabrication of Multilayer Photomobile Materials Composed of Thin Films of Crosslinked Azobenzene Liquid-Crystalline Polymer and Optically Inert Polymer Substrate (Research and Development Initiative, Chuo Univ.) ○MATSUDA, Yuki; UBE, Toru; IKEDA, Tomiki
- 2C2-38** Preparation of Light-Driven Interpenetrating Polymer Network Films Showing Fast Response (Research and Development Initiative, Chuo Univ.) ○SUGAWARA, Tomonao; UBE, Toru; IKEDA, Tomiki
- 2C2-39** Photoresponsive Behavior of Crosslinked Azobenzene Liquid-Crystalline Polymers with Bicyclohexyl Moieties (Research and Development Initiative, Chuo Univ.) ○SUKA, Ikumi; UBE, Toru; IKEDA, Tomiki
- 2C2-40** Electro-Optical Properties of Polymer/Liquid Crystal Composite Display Devices by Means of Macromonomers (Research and Development Initiative, Chuo Univ.) ○MATSUDA, Kosei; IMAI, Jumpei; SUZUKI, Takaya; UBE, Toru; FUJISAWA, Toru; HASEBE, Hiroshi; TAKATSU, Haruyoshi; IKEDA, Tomiki

Chair: GON, Masayuki (15 : 50~16 : 30)

* 15:40-15:50: interval for laptop PC connection.(2C2-42, 2C2-43, 2C2-44, 2C2-45)

- 2C2-42** Preparation of Surface-polymerized porous membranes coated with metal-organic frameworks (Fac. Textile Sci. Technol., Shinshu Univ.) ○YOSHIDA, Satsuki; KIMURA, Mutsumi; KITAZAWA, Yu
- 2C2-43** Recognition of polymer terminus by MOFs for chromatographic separation (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; JST-CREST) ○MIZUTANI, Nagi; LE OUAY, Benjamin; HOSONO, Nobuhiko; UEMURA, Takashi
- 2C2-44** Separation of cyclic polymers by metal-organic frameworks (Fac. Eng., The Univ. of Tokyo; Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; CREST, JST) ○SAWAYAMA, Taku; HOSONO, Nobuhiko; UEMURA, Takashi
- 2C2-45** Development of acrylates bearing incompletely-condensed cage silsesquioxanes (KIT) ○IGARASHI, Amato; NAKA, Kensuke; IMOTO, Hiroaki; UEDA, Yukiho

Tuesday, March 24, AM

Chair: MAEDA, Katsuhiko (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3C2-07, 3C2-09, 3C2-11)

- 3C2-07**** Interpenetrating Polymer Networks Microgels: structure and properties in experiment and computer simulations (Lomonosov Moscow State Univ.) ○KOZHUNOVA, Elena Yu.; NASIMOVA, Irina; VYSHIVANNAYA, Oxana; RUDYAK, Vladimir
- 3C2-09**** Polymerization-induced self-assembly: insight from computer simulations (Semenov Fed. Res. Ctr. for Chemical Physics) ○CHERTOVICH, Alexander; GAVRILOV, Alexey; KOS, Pavel; SHUPANOV, Ruslan; RUDYAK, Vladimir
- 3C2-11**** Mechanoresponsive photoluminescence in cross-linked polybutylacrylates containing flexible (pyridinophane)Cu(NHC) complexes as mechanophores (OIST) ○KARIMATA, Ayumu; PRADNYA, Patil; LAPOINTE, Sebastien; KHASKIN, Eugene; FAYZULLIN, Robert; KHUSNUTDINOVA, Julia

Chair: MIYASAKA, Makoto (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(3C2-14, 3C2-15, 3C2-17, 3C2-19)

- 3C2-14** Helicity Control of Poly(biphenylacetylene) Derivatives Bearing Polar Pendant Groups in the Vicinity of the Main-Chain (Grad. Sch. Eng., Nagoya Univ.) ○TSUZUKI, Atsushi; IKAI, Tomoyuki; YASHIMA, Eiji
- 3C2-15**** Enantioseparation using poly(biphenylacetylene) derivatives with helicity memory capability (Grad. Sch. Eng., Nagoya Univ.) ○SUZUKI, Nozomu; KURAKE, Tomoyuki; IKAI, Tomoyuki; MAEDA, Katsuhiko; YASHIMA, Eiji
- 3C2-17**** Synthesis of alkoxy silanes having divinylaryli moieties and application to organosilica reverse osmosis membrane (Fac. Sci. Technol., TUS) ○YAMAMOTO, Kazuki; SAITO, Ibuki; GUNJI, Takahiro
- 3C2-19** Enantiomer and oxygen permeability of imprint membranes based on cross-linked polyphenylacetylenes using two kinds of template molecules (Grad. Sch. Sci. and Technol., Niigata Univ.) ○ODA, Tomohiro; SHIBATA, Michiru; KIMURA, Yuka; TERAGUCHI, Masahiro; KANEKO, Takashi; AOKI, Toshiki

Tuesday, March 24, PM

Chair: IKAI, Tomoyuki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3C2-28, 3C2-29, 3C2-30, 3C2-31, 3C2-33)

- 3C2-28** Preparation of polymeric material cross-linked with stilbene derivatives and evaluation of photoresponsive properties (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.; ISIR, Osaka Univ.) ○ITO, Kento; OSAKI,

Motohumi; TAKASHIMA, Yoshinori; TANAKA, Kazuo; CHUJO, Yoshiki; YAMAGUCHI, Hiroyasu; HARADA, Akira

- 3C2-29** Preparation and of supramolecular/cellulose nanofiber composite materials with host-guest interaction and metal coordination and their mechanical properties (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.; Grad. Sch. Eng., Osaka Univ.; ISIR, Osaka Univ.; JASRI) ○TSUCHIYA, Hinako; SINAWANG, Garry; ASOH, Taka-aki; IKEMOTO, Yuka; TAKASHIMA, Yoshinori; HARADA, Akira; UYAMA, Hiroshi; YAMAGUCHI, Hiroyasu
- 3C2-30** Preparation and Evaluation of Polyion Complex Gels Using Cellulose Derivatives (II) -Effect of pH on volume change of gels- (Grad. Sch. of Sci. Technol., Sophia Univ.) ○MURATA, Jumpei; SAITO, Tsuguyuki; ISOGAI, Akira; TAKEOKA, Yuku; RIKUKAWA, Masahiro; FUJITA, Masahiro
- 3C2-31*** Local Stress Concentration of Polyurethanes Evaluated by Flexible Fluorescent Mechanophores (Dep. Chem., Sch. Sci., Kyoto Univ.; Grad. Sch. Eng., Nagoya Univ.; PRESTO, JST) ○KOTANI, Ryota; MASUBUCHI, Yuichi; OSUKA, Atsuhiko; SAITO, Shohei
- 3C2-33** Synthesis of new amidinorea resin with polymerized group on carbamoyl group side and evaluation of Metal-ion-capturing (Grad. Sch. Eng., Tokyo Denki Univ.) ○JIN, Kaidi; TANAKA, Satomi

Chair: MATSUMOTO, Takuya (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3C2-35, 3C2-37, 3C2-38, 3C2-39, 3C2-40)

- 3C2-35*** Helicity Control of Poly(biphenylacetylene)s Bearing Pyridine N-Oxide Groups and Their Use as Asymmetric Organocatalysts (Grad. Sch. Eng., Nagoya Univ.) ○IKAI, Tomoyuki; ANDO, Mitsuka; ISHIDATE, Ryoma; MAEDA, Katsuhiko; YASHIMA, Eiji
- 3C2-37** Synthesis of Optically Active Poly(diphenylacetylene)s Bearing Anilide Groups in the Side Chain and Their Application to Chiral Stationary Phases for HPLC (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NOZAKI, Mai; HIROSE, Daisuke; NISHIMURA, Tatsuya; MAEDA, Katsuhiko
- 3C2-38** Synthesis and Properties of Tetraphenylethene Polymers with Various Binding Structures (Coll. Sci. Eng., Kanazawa Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HAYASHI, Yui; KAKUTA, Takahiro; YAMAGISHI, Tada-aki
- 3C2-39[#]** Preparation and Characterization of Poly(lactic acid)/Boron Nitride Nanosheet Composites (Grad. Sch. Sci., Eng., Tokyo Tech.) ○LAOSAMATHIKUL, Witita; SERIZAWA, Takeshi
- 3C2-40** Polymerization and characterization in blend of cyanate ether resin and low viscosity additives (Adv. Tech. R&D Center, Mitsubishi Electric Co.) ○SATO, Satoru

Chair: KAKUTA, Takahiro (15 : 50~16 : 40)

* 15:40-15:50: interval for laptop PC connection.(3C2-42, 3C2-44, 3C2-46)

- 3C2-42[#]** Solid-state DNP-NMR Spectroscopy for Structural Characterization of Insoluble Polymers (IRC3, AIST) ○TANAKA, Shinji; OGAWA, Atsuko; NAKAJIMA, Yumiko; SATO, Kazuhiko
- 3C2-44[#]** Preparation of polyvinyl butyral under supercritical carbon dioxide as moisture resistant adhesives for glass substrates (Grad. Sch. Eng., Kobe Univ.) ○MATSUMOTO, Takuya; YORIFUJI, Miyabi; NISHINO, Takashi
- 3C2-46** Quantitative Analysis of Bending Strain in Uniaxially Oriented Polyethylene Terephthalate Films (Lab. Chem. Life Sci., Tokyo Tech.) ○KANEHARA, Yurina; KUWAHARA, Kohei; TAGUCHI, Ryo; AKAMATSU, Norihisa; SHISHIDO, Atsushi

Room C3

Lecture Hall Bldg. K303

Physical Organic Chemistry Structures and Properties

Sunday, March 22, PM

Boron

Chair: SHOJI, Yoshiaki (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1C3-34, 1C3-35, 1C3-36, 1C3-38)

- 1C3-34** Synthesis and Electron-Accepting Ability of Diarylboryl Groups Doubly Strapped with Alkylene Chains (Grad. Sch. Sci., Nagoya Univ.) ○OSHIMIZU, Ryo; ANDO, Naoki; YAMAGUCHI, Shigehiro
- 1C3-35** Synthesis and optical properties of novel benzene, naphthalene and anthracene derivatives with dimesitylborylethynyl substituent. (Adv. Mater. Dev. Sec., Tokyo Metropolitan Ind. Tech. Res. Inst.; Lab. Chem. Life Sci., Tokyo Tech.) ○MISHIBA, Kentaro; TANAKA, Yuya; AKITA, Munetaka
- 1C3-36[#]** Stable conjugated borenium cation system with borepin structure (Grad. Sch. Eng., Hiroshima Univ.; Rutgers University-Newark) ○ADACHI, Yohei; OHSHITA, Joji; JAEKLE, Frieder
- 1C3-38*** Investigation of Lewis acidic character of oxygen-bridged planarized triphenylborane and the properties of their Lewis acid-base adducts (Grad.

Sch. Eng., Tohoku Univ.; NICHIC, Tohoku Univ.; KONICA MINOLTA, INC) ○KITAMOTO, Yuichi; KOBAYASHI, Fumiaki; KITA, Hiroshi; OI, Shuichi; HATTORI, Tetsutaro

Chair: TAKEDA, Youhei (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1C3-41, 1C3-42, 1C3-43, 1C3-44, 1C3-45, 1C3-46)

- 1C3-41** Unique Reactivity of Tetramesityldiborane(4) with Fluoride Ion (Lab. Chem. Life Sci., Tokyo Tech.) ○NAKAZAWA, Naoki; KASHIDA, Junki; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 1C3-42** Synthesis of Boron Complex Based on Pyrazine toward Highly Efficient Near-Infrared Fluorescence (Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Hiromasa; WATANABE, Hiroyuki; TANAKA, Kazuo
- 1C3-43** Alkyl Chain Length Dependence of Solid-state emissive Boron-fused Azomethine Polymers (Grad. Sch. Eng., Kyoto Univ.) ○YAMADA, Natsumi; OHTANI, Shunsuke; GON, Masayuki; TANAKA, Kazuo
- 1C3-44[#]** Synthesis and Physical Properties of Carbon-Boron Fused *o*-Carborane Derivatives (Grad. Sch. Eng., Kyoto Univ.) ○OCHI, Junki; TANAKA, Kazuo
- 1C3-45** Novel Ionic Molecular-Assemblies Based on Carborane Anion (Fac. Textile Sci. Technol., Shinshu Univ.) ○YOSHII, Tatsuya; KIMURA, Mutsumi; MIYAMOTO, Kazunori; KANAZAWA, Junichiro; UCHIYAMA, Masanobu; KITAZAWA, Yu
- 1C3-46** The Development of Oxidative Functionalization of C-H Bond of Carborane Anion (Fac. Textile Sci. Technol., Shinshu Univ.) ○ITO, Yuhi; KIMURA, Mutsumi; KAZAZAWA, Junichiro; UCHIYAMA, Masanobu; KITAZAWA, Yu

Chair: MIYAKE, Yoshihiro (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1C3-48, 1C3-49, 1C3-50, 1C3-51, 1C3-52, 1C3-53)

- 1C3-48** Synthesis of Carbazole-Containing 1,2-Azaborine Derivatives Using Bora-Friedel-Crafts Reaction and Their Properties (Grad. Sch. Sci. Tech., Gunma Univ.) ○YAMAMOTO, Koji; YAMADA, Itsuki; KAMEYAMA, Masaru; NAKAMURA, Yosuke
- 1C3-49** Synthesis of BN-Embedded Hexabenzocoronene by Dearomatic Borylation (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMAMOTO, Takehiro; ABE, Hiroaki; GOTOH, Hajime; NAKATSUKA, Soichiro; ODA, Susumu; HATAKEYAMA, Takuji
- 1C3-50** An Approach toward the Synthesis of Linear BN π -Conjugated Polymers by the Ring-Opening Reaction of Diazaboretidine Derivatives (Lab. Chem. Life Sci., Tokyo Tech.) ○ENDO, Naoto; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 1C3-51** Synthesis and structures of derivatives of Cyclo[tetra[benzo[d][1,3,2]dioxaborole-2,4-diy]] (Grad. Sch. Sci., Tohoku Univ.; RIKEN CEMS) ○TANAKA, Shunichi; KAWABATA, Kohsuke; TAKIMIYA, Kazuo
- 1C3-52** Correlation between Structures and Lewis Acidity in Planarized Triarylboranes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITBM, Nagoya Univ.) ○YAMADA, Takuya; ANDO, Naoki; YAMAGUCHI, Shigehiro

Fluorescent Molecules

- 1C3-53** Synthesis and photophysical properties of near-infrared light-emitting polymers using tin-fused azobenzene complexes (Sch. Eng., Kyoto Univ.) ○TANIMURA, Kazuya; YAEGASHI, Misao; GON, Masayuki; TANAKA, Kazuo

Chair: GON, Masayuki (18 : 00~18 : 50)

* 17:50-18:00: interval for laptop PC connection.(1C3-55, 1C3-56, 1C3-57, 1C3-58, 1C3-59)

- 1C3-55** Novel synthesis of fluorinated tolans with a tetrafluorinated benzoic acid derivatives as a partial structure (KIT) YAMADA, Shigeyuki; ○KATAOKA, Mitsuki; KONNO, Tsutomu
- 1C3-56** Novel synthesis of fluorine-containing tolane-dimers and evaluation of their physical properties (KIT) YAMADA, Shigeyuki; ○UTO, Eiji; KONNO, Tsutomu
- 1C3-57** Luminescent properties of *N*-arylcarbazole derivatives with alkyl chains on the benzene ring (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○OHMURA, Satoshi; NODA, Taiga; UENO, Masaharu; MIYOSHI, Norikazu
- 1C3-58** Synthesis of substituted 1,4-diazepines and their aggregation-induced emission properties tuned by introduced functional groups (Grad. Sch. Eng., Tokyo City Univ.; Sch. Eng., Tokyo City Univ.; Grad. Sch. Eng., Chiba Univ.; RIKEN CSRS) ○MURATA, Daisuke; MIKAWA, Taiki; YOSHIDA, Yasushi; UEMURA, Naohiro; MINO, Takashi; SOGAWA, Hiromitsu; SHIOTSUKI, Masashi
- 1C3-59** Synthesis and Photophysical Properties of π -Expanded Rhodamine toward NIR Fluorophors (Grad. Sch. Sci. & Tech., NAIST) ○ITO, Toshiaki; ARATANI, Naoki; YAMADA, Hiroko

Monday, March 23, AM

Functional π -Conjugated Molecules

Chair: AGO, Tomohiro (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(2C3-04, 2C3-05, 2C3-06, 2C3-08)
- 2C3-04** Synthesis and Application of BNO-Containing Polycyclic Aromatic Compounds Exhibiting Pure Blue Fluorescence (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○UEDA, Yuta; ODA, Susumu; HATAKEYAMA, Takuji
- 2C3-05** Synthesis and Physical Properties of DABNA Derivatives Having Cyano Groups (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SUGITANI, Takumi; TANAKA, Hiroyuki; TABATA, Keita; HATAKEYAMA, Takuji
- 2C3-06*** Nitrogen-Containing n -Type Organic Semiconductors with Asymmetric Heterocyclic Sidechains (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○YU, Craig; KUMAGAI, Shohei; KIMURA, Ryoya; KITAMURA, Hiroki; YANO, Masafumi; SUGIURA, Hiroki; TANI, Yukio; ISE, Toshihiro; WATANABE, Tetsuya; TAKEYA, Jun; OKAMOTO, Toshihiro
- 2C3-08*** Development of Thermally Activated Delayed Fluorescent D-A-D-A Type π -Conjugated Macrocycle and their Application as OLED Emitters (Grad. Sch. Eng., Osaka Univ.; Durham Univ.; Silesian University of Technology) ○IZUMI, Saika; TOHNAI, Norimitsu; DATA, Przemyslaw; TAKEDA, Youhei; MINAKATA, Satoshi

Chair: HATAKEYAMA, Takuji (10 : 40 ~ 11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(2C3-11, 2C3-12, 2C3-13, 2C3-14)
- 2C3-11** Synthesis and properties of novel aromatic compounds based on proton-electron donor and acceptor units (Grad. Sch. Sci., Osaka Univ.) ○INOBE, Honami; HIRAO, Yasukazu; KUBO, Takashi
- 2C3-12** Synthesis and Photovoltaic Properties of Boron β -Ketoiminate Dyes Forming Linear Donor- π -Acceptor Structure (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○ONO, Katsuhiko; SAKURA, Yuki; YUMIOKA, Fumina
- 2C3-13** Development of Blue Thermally Activated Fluorescence Emitters Using Ladder-Type Heteroborins (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KAWANO, Rei; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio; MATSUO, Kyohei; PARK, In Seob; YASUDA, Takuma
- 2C3-14*** Young Scholar Lectures of CSJ Development of Multi-Photofunctional Molecules Based on Novel Constructive Methods for Azaaromatic Compounds (Grad. Sch. Eng., Osaka Univ.) ○TAKEDA, Youhei

Monday, March 23, PM

Chair: FUKUI, Norihito (12 : 50 ~ 14 : 00)

- * 12:40-12:50: interval for laptop PC connection.(2C3-24, 2C3-25, 2C3-26, 2C3-27, 2C3-28, 2C3-29)
- 2C3-24** Synthesis of π -Extended Triphenylmethyl Radical Including Nitrogen Atom (Grad. Sch. Sci., Osaka Univ.) ○NAGAMACHI, Nobuhiro; NISHIUCHI, Tomohiko; KUBO, Takashi

Heteroatom-Containing π -Cjugated Molecules

- 2C3-25*** Synthesis of Thiophene-Containing Triarylmethine Dyes Bridged with Phosphoryl Group and Its Conversion to Stable Organic Radicals (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; WPI-iCeMS, Kyoto Univ.) ○OEY, Stanley Surya Winata; YAMAGUCHI, Shigehiro; FUKAZAWA, Aiko
- 2C3-26** Synthesis of Group 16 Element-substituted Naphthalene diimides via Three-component Coupling Reaction (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○FUJIWARA, Ryoichi; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 2C3-27** Synthesis and Properties of Naphthalene-fused Phosphindolizine Derivatives (Grad. Sch. Sci., Osaka Pref. Univ.) ○TAHARA, Sana; MATSUMOTO, Hiroyo; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 2C3-28** Properties of Liquid Crystalline π -Conjugated Systems Bearing a Sulfur-containing Medium-membered Ring as an End-Capping Moiety at One of the Termini (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; WPI-iCeMS, Kyoto Univ.) ○HAYAKAWA, Masahiro; YAMAGUCHI, Shigehiro; FUKAZAWA, Aiko
- 2C3-29*** Intermolecular Interaction of Thienylated Dithieno[*a,e*]pentalenes and Their Aggregate Formation (WPI-iCeMS, Kyoto Univ.; Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○USUBA, Junichi; YAMAGUCHI, Shigehiro; FUKAZAWA, Aiko

Chair: NISHIUCHI, Tomohiko (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2C3-32, 2C3-33, 2C3-34, 2C3-35, 2C3-36, 2C3-37)
- 2C3-32** Synthesis and Properties of Sulfur-Inserted Perylene Bisimide Analogues (Grad. Sch. Eng., Nagoya Univ.) HAYAKAWA, Sakiho; ○FUKUI, Norihito; SHINOKUBO, Hiroshi
- 2C3-33** Effect of bidentate phosphine ligand in the nickel-catalyzed poly(1,4-

phenylene)synthesis (Grad. Sch. Eng., Kobe Univ.) ○SUSAMI, Koki; SHIBUYA, Yushin; OKANO, Kentaro; MORI, Atsunori

- 2C3-34** Synthesis and structure of amphipathic polythiophene-polythiophene block copolymer (Grad. Sch. Eng., Kobe Univ.) ○YAMAMOTO, Sonoka; OKANO, Kentaro; MORI, Atsunori
- 2C3-35** Creation of ($\sigma + \pi$)-Mixed Delocalized Systems Bearing Terphenyl Skeletons (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKAHASHI, Koki; FURUKAWA, Shunsuke; SAITO, Masaichi
- 2C3-36** Synthesis and properties of TTF analogs introduced 6-aryl-1,4-dithiafulvene (Grad. Sch. Sci., Eng., Ehime Univ.) ○KAGAWA, Kohei; KIMURA, Hitoshi; YOSHIMURA, Aya; SHIRAHATA, Takashi; YORIMITSU, Hideki; MISAKI, Yohji
- 2C3-37** Synthesis and Optical Properties of Ladder-type π -Conjugated Compounds with a naphtho[2,3-*b*:6,7-*b'*]diheterole skeleton (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HAYASAKA, Chikara; MORISHITA, Suzuho; NOGUCHI, Keiichi; NAKANO, Koji

Chair: YOSHIMURA, Aya (15 : 20 ~ 16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2C3-39, 2C3-41, 2C3-42, 2C3-43, 2C3-44)
- 2C3-39*** Synthesis and Optical Evaluation of Regioregular Boron-fused Azomethine Polymers (Grad. Sch. Eng., Kyoto Univ.) ○OHTANI, Shunsuke; GON, Masayuki; TANAKA, Kazuo
- 2C3-41** Synthesis and Properties of Diaza-*s*-indacenes (Grad. Sch. Eng., Nagoya Univ.) ○HANIDA, Kensuke; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 2C3-42** Theoretical study on electronic structures, optical and magnetic response properties of open-shell polycyclic aromatic azomethine ylides (Grad. Sch. Eng. Sci., Osaka Univ.) ○SHIMIZU, Yosuke; KISHI, Ryohei; ITO, Shingo; NAKANO, Masayoshi
- 2C3-43** Synthesis and properties of silicon-bridged cationic di(1-azuleno) methenes (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○ABE, Mikiya; MURAI, Masahito; YAMAGUCHI, Shigehiro
- 2C3-44** Synthesis and Photophysical Properties of Hexacoordinated Silicon Compounds with 2-Phenylpyridine Moieties (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○MORI, Toshiaki; FURUTA, Shohei; YOSHIGOE, Yusuke; SEKINE, Kohei; KUNINOBU, Yoichiro

Chair: TSURUSAKI, Akihiro (16 : 30 ~ 17 : 30)

- * 16:20-16:30: interval for laptop PC connection.(2C3-46, 2C3-47, 2C3-48, 2C3-49, 2C3-50, 2C3-51)
- 2C3-46** Synthesis of octaaza[8]circulenes containing azaindole units (Grad. Sch. Eng., Nagoya Univ.) ○AKAHORI, Shuhei; KAGA, Atsushi; YORIMITSU, Hideki; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 2C3-47** Synthesis of BPN-Embedded Corannulene Derivatives (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OYA, Haruka; NAKATSUKA, Soichiro; HATAKEYAMA, Takuji
- 2C3-48** Synthesis of boron diazapyrene complexes (Grad. Sch. Eng., Nagoya Univ.) ○NAKAZATO, Takumi; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 2C3-49** Synthesis of 2,8-diazaperylene by reductive aromatization of anthracene diimide (Grad. Sch. Eng., Nagoya Univ.) ○SAKURAI, Takahiro; NAKAZATO, Takumi; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
- 2C3-50*** Synthesis and Optical Evaluation of Fused Azo-bisboron Complexes Having Expanded Conjugated Systems through Azo Groups (Grad. Sch. Eng., Kyoto Univ.) ○NAKAMURA, Masashi; GON, Masayuki; TANAKA, Kazuo
- 2C3-51** Synthesis of π -Conjugated Polyimines from Aliphatic Polyketones (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○MANABE, Yumehiro; YONEDA, Tomoki; INOKUMA, Yasuhide

Tuesday, March 24, AM

Nitrogen-Containing Aromatics

Chair: YAMADA, Hiroko (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3C3-04, 3C3-05, 3C3-06, 3C3-07, 3C3-08, 3C3-09)
- 3C3-04** Synthesis and Physicochemical Properties of D-A-D type Dibenzophenazines Having Selenium-Bridged Diarylamines as Donors (Grad. Sch. Eng., Osaka Univ.) ○GOTO, Shimpei; TAKEDA, Youhei; MINAKATA, Satoshi
- 3C3-05** Synthesis and Physicochemical Properties of D-A-D Compound Comprising of Dibenzophenazine as an Electron Acceptor and Silicon-Bridged Diarylamine as Donors (Sch. Eng., Osaka Univ.; Durham Univ.; Silesian University of Technology) ○TAKUMI, Hosono; OKAZAKI, Masato; DATA, Przemyslaw; TAKEDA, Youhei; MINAKATA, Satoshi
- 3C3-06** Synthesis of Nitrogen-containing Polycyclic Aromatic Compounds by Pd-catalyzed Intramolecular Dehydrogenative Cyclization and Their Properties (Grad. Sch. Eng., Osaka Univ.) ○TANIGUCHI, Taisei; NISHII, Yuji; MIURA, Masahiro
- 3C3-07** Synthesis of optically active bibenzofuronaphthofuropyridine derivatives by palladium-catalyzed intramolecular dehydrogenative cyclization (Grad. Sch. Eng., Osaka Univ.) ○TAKISHIMA, Ryo; NISHII, Yuji; MIURA, Masahiro

- 3C3-08** Stereochemical and Complexation Behaviors and Electronic Properties of 2,2'-Pyridyl-1,1'-Biazulene (Sch. Sci., Kitasato Univ.; Bruker Japan K. K.; Rigaku Corp.) ○TSUCHIYA, Takahiro; KATSUOKA, Yuka; NAGAME, Yumi; YOZA, Kenji; SATO, Hiroyasu; MAZAKI, Yasuhiro
- 3C3-09** Synthesis and Properties of 2,6-Disubstituted Azulenes with Electron Donating Groups (Sch. Sci., Kitasato Univ.; ICR, Kyoto Univ.) ○INOUE, Masahiro; HAMANO, Tomohiro; NAKAMURA, Tomoya; WAKAMIYA, Atsushi; TSUCHIYA, Takahiro; MAZAKI, Yasuhiro

Chair: MINAKATA, Satoshi (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(3C3-11)

- 3C3-11# CSJ Award for Creative Works** Structure- and Functionality-based Molecular Design of Heteroaromatic Compounds (Res. Ctr. Membrane & Film Tech., Kobe Univ.; Grad. Sch. Eng., Kobe Univ.) ○MORI, Atsunori

Tuesday, March 24, PM

Nitrogen-Containing Aromatics

Chair: ISHIMARU, Yoshihiro (12 : 50~13 : 50)

* 12:40-12:50: interval for laptop PC connection.(3C3-24, 3C3-26, 3C3-27, 3C3-28, 3C3-29)

- 3C3-24**** Effects of electron-withdrawing groups on nitrogen-containing perylene diimide analogues and their properties (Grad. Sch. Frontier Sci., The Univ. of Tokyo; FUJIFILM Corp.; OPERANDO-OIL; MANA, NIMS; PRESTO, JST) ○KUMAGAI, Shohei; KOGUMA, Takeru; TANI, Yukio; SUGIURA, Hiroki; WATANABE, Tetsuya; ISE, Toshihiro; KUROSAWA, Tadanori; TAKEYA, Jun; OKAMOTO, Toshihiro

Porphyrinoids

- 3C3-26** Stimuli-responsive fluorescence observed in dihydroacridine derivative with flexible substituent (Fac. Sci. Tech., Keio Univ.; Fac. Sci. Tech., Keio Univ.) ○MIURA, Youhei; YANAGIMACHI, Ryo; SHABANA, Satoshi; YOSHIOKA, Naoki
- 3C3-27** Synthesis and properties of pyrylium-containing polycyclic aromatic compounds (Grad. Sch. Sci. & Tech., NAIIST) ○TODA, Natsuki; MATSUO, Kyohei; ARATANI, Naoki; YAMADA, Hiroko
- 3C3-28** Synthesis of meso-Aminated Porphyrins with High Electron Donating Character (Grad. Sch. Eng., Kyoto Univ.) ○NISHIMURA, Issei; HIGASHINO, Tomohiro; FUJIMORI, Yamato; IMAHORI, Hiroshi
- 3C3-29** Oxidative Demetallation of Ruthenoarene Unit and Oxygen Insertion Reaction of Hexaphyrin π -Ru Complexes (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKAI, Akito; OSUKA, Atsuhiko

Chair: KEISHIRO, Tahara (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(3C3-31, 3C3-32, 3C3-33, 3C3-34, 3C3-35, 3C3-36)

- 3C3-31** Syntheses of macrocyclic compounds by the cyclization of terpyrrole with bulky substituents (Grad. Sch. Sci., Eng., Saitama Univ.) ○OHNO, Tomoya; FUJIHARA, Takashi; ISHIMARU, Yoshihiro
- 3C3-32** Syntheses and properties of macrocyclic compounds using 2,5-bisthiénylpyrrole (Grad. Sch. Sci., Eng., Saitama Univ.) ○KANEKO, Keisuke; OTSUKA, Koki; FUJIHARA, Takashi; ISHIMARU, Yoshihiro
- 3C3-33** Helically Twisted Benzene-1,3,5-triamine-fused Porphyrin Dimers (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KATO, Kenichi; OSUKA, Atsuhiko
- 3C3-34** Synthesis and physical properties of a porphyrin dimer bridged by four phenanthroline moieties (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○OKADA, Kengo; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 3C3-35** Synthesis of Macrocyclic Norcorrole Dimer (Grad. Sch. Eng., Nagoya Univ.) ○KAWASHIMA, Hiroyuki; NOZAWA, Ryo; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 3C3-36** Structure and Redox Property of N-Confused Porphyrin Dimer Cobalt Complexes (Grad. Sch. Eng., Kyushu Univ.) ○IWANAGA, Osamu; MIYAZAKI, Takaaki; ISHIDA, Masatoshi; FURUTA, Hiroyuki

Chair: EMA, Tadashi (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(3C3-38, 3C3-40, 3C3-41, 3C3-43)

- 3C3-38**** Optical property regulation of porphycene driven by steric effect of meso-substituent (Grad. Sch. Eng., Kyushu Univ.) ○KOGA, Daiki; ONO, Toshikazu; HISAEDA, Yoshio
- 3C3-40** Synthesis of porphycene-polymer hybrids for enhanced optical properties (Grad. Sch. Eng., Kyushu Univ.) ○SHINJO, Hyuga; ONO, Toshikazu; HISAEDA, Yoshio
- 3C3-41**** meso-Oxoisocorrole Metal Complexes and their Antiaromaticity (Dep. Chem., Sch. Sci., Kyoto Univ.) ○UETA, Kento; TANAKA, Takayuki; OSUKA, Atsuhiko
- 3C3-43** Synthesis and Property of 14,15-Diazacorrphycene Palladium Complex (Grad. Sch. Eng., Nagoya Univ.) ○YAGI, Atsumi; SHINOKUBO, Hiroshi

BODIPY

Chair: IMAHORI, Hiroshi (16 : 20~17 : 20)

* 16:10-16:20: interval for laptop PC connection.(3C3-45, 3C3-47, 3C3-48, 3C3-50)

- 3C3-45**** Pyrrolopyrrole Aza-BODIPYs bearing Electron-Donating Amino Substituents as NIR Fluorophore (Grad. Sch. Eng., Kyushu Univ.) ○KAGE, Yuto; KARASAKI, Hideaki; MORI, Shigeki; KANG, Seongsoo; KIM, Dongho; FURUTA, Hiroyuki; SHIMIZU, Soji
- 3C3-47** Synthesis and Photophysical Properties of BODIPY Dyes by Direct Alkynylation Reaction (Grad. Sch. Eng., Kyushu Univ.) ○SHIMADA, Takahide; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3C3-48*** Synthesis and Chiroptical Properties of Chiral Carbazole-Based BODIPYs (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MAEDA, Chihiro; NAGAHATA, Keiji; SUKA, Keita; TAKAISHI, Kazoto; EMA, Tadashi
- 3C3-50** Synthesis and characterization of near-infrared absorbing thieno[1,3,2]oxazaborinine-typed asymmetric BODIPYs (Grad. Sch. Urban Env. Sci., TMU; Nippon Kayaku Co. Ltd. R&D planning division) ○NOZAWA, Toshiaki; KUBO, Yuji; MAEDA, Kentaro; HASHIMOTO, Yuta

Cotracted Porphyrins

Chair: MAEDA, Chihiro (17 : 30~18 : 30)

* 17:20-17:30: interval for laptop PC connection.(3C3-52, 3C3-54, 3C3-55, 3C3-56, 3C3-57)

- 3C3-52*** Studies on the oxidative coupling of meso-aryl-corroles (Dep. Chem., Sch. Sci., Kyoto Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○TANAKA, Takayuki; OOI, Shota; OSUKA, Atsuhiko
- 3C3-54** Synthesis and properties of metal-ion-responsive fluorescent subporphyrins (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KISE, Koki; OSUKA, Atsuhiko
- 3C3-55** Electronic Structure and Redox Property of Cobalt Benzenorrole Complexes (Grad. Sch. Eng., Kyushu Univ.) ○HASHIGUCHI, Ikuho; ISHIDA, Masatoshi; FURUTA, Hiroyuki
- 3C3-56** Investigation of the kinetic stabilization effect at meso-positions of norcorrole Ni(II) complexes (Grad. Sch. Eng., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.) ○UKAI, Shusaku; NOZAWA, Ryo; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 3C3-57#** Synthesis, Structure, and Properties of Doubly Linked Norcorrole Dimer (Grad. Sch. Eng., Nagoya Univ.) ○LIU, Si-Yu; KAWASHIMA, Hiroyuki; FUKUI, Norihito; SHINOKUBO, Hiroshi

Wednesday, March 25, AM

Pyrrroles, Oligopyrroles

Chair: TANAKA, Takayuki (9 : 30~10 : 30)

* 9:20-9:30: interval for laptop PC connection.(4C3-04, 4C3-05, 4C3-06, 4C3-07, 4C3-09)

- 4C3-04#** 3-Methylindole substituted zinc phthalocyanines for Photodynamic Cancer Therapy (Sci. Fac. of Tunis, Univ. of Tunis El Manar; Dept. Chem., Gebze Technical Univ.; Dept. Chem., King Abdulaziz Univ.; Fac. Sci., TMU) ○AYARI, Sami; SAGLAM, Mehmet F.; SUGIURA, Ken-ichi
- 4C3-05** Synthesis of Near-Infrared Light Absorbing Hydrophilic Silicon(IV) Phthalocyanines as a Photosensitizer (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○ISHII, Takashi; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 4C3-06** Development of phthalocyanine ruthenium complexes toward a photoredox reaction using near-IR light (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; PRESTO, JST) ○ISHIKAWA, Yuta; MAEDA, Hajime; SEGI, Masahito; FURUYAMA, Taniyuki
- 4C3-07*** Dihedral-Angle-Controlled Coupling of Cationic π -Electronic Units with Anion-Responsive π -Electronic Systems (Coll. Life Sci., Ritsumeikan Univ.) ○URAKAWA, Kazuki; MAEDA, Hiromitsu
- 4C3-09** Nonplanar Heterocycle-Bridged Dipyrrolyl π -Electronic Molecules Exhibiting Ordered Arrangement (Coll. Life Sci., Ritsumeikan Univ.) ○MIYASUE, Mika; HAKETA, Yohei; MAEDA, Hiromitsu

Chair: SUGIURA, Ken-ichi (10 : 40~11 : 30)

* 10:30-10:40: interval for laptop PC connection.(4C3-11, 4C3-12, 4C3-13, 4C3-14, 4C3-15)

- 4C3-11** Oxidative fusion reactions of pyrrole-thiophene cyclic hybrids (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MATSUO, Yusuke; TANAKA, Takayuki; OSUKA, Atsuhiko
- 4C3-12** Facile synthesis of bilindione and its reactivity (Grad. Sch. Eng., Nagoya Univ.) ○TAKIGUCHI, Asahi; FUKUI, Norihito; SHINOKUBO, Hiroshi
- 4C3-13** Synthesis of Pyrrole-Based Extended π -Electronic Ions (Coll. Life Sci., Ritsumeikan Univ.) ○SUGIURA, Shinya; MAEDA, Hiromitsu
- 4C3-14** Synthesis and Emission Properties of Multiply Aryl-Substituted Pyrrole-Based Anion-Responsive π -Electronic Molecules (Coll. Life Sci., Ritsumeikan Univ.) ○SUGIURA, Shinya; MAEDA, Hiromitsu
- 4C3-15** Pyrrolyliodonium Cations: π -Electronic Systems Based on Pyrrole

Derivatives with Highly Electron-Withdrawing Groups (Coll. Life Sci., Ritsumeikan Univ.) ○IKEUCHI, Shota; HAKETA, Yohei; MAEDA, Hiromitsu

Redox

Chair: MAEDA, Hiromitsu (11 : 40~12 : 30)

* 11:30-11:40: interval for laptop PC connection.(4C3-17, 4C3-18, 4C3-19, 4C3-20, 4C3-21)

4C3-17 Synthesis and redox behavior of dimeric TTF molecules with anthraquinoid-inserted TTF unit (Grad. Sch. Sci., Eng., Ehime Univ.) ○OSHIMA, Toko; YOSHIMURA, Aya; SHIRAHATA, Takashi; MISAKI, Yohji

4C3-18 Synthesis and photophysical properties of donor-acceptor-donor arrays incorporating anthracene bisimide and anthracene units (Fac. of Sci., Okayama Univ. of Sci.) ○TANAKA, Keisuke; IWANAGA, Tetsuo

4C3-19 Synthesis and Properties of Gold Nanoparticles Protected by 3,4-Dioxythiophene Mixed Oligomer (Fac. Sci., TMU) ○MATSUO, Kazuki; NOMURA, Kotohiro; NISHINAGA, Tohru

4C3-20 Synthesis and Properties of Difluoreno[4,3-*b*:3',4'-*d*]furan and its Analogues (Sch. Eng., The Univ. of Shiga Pref.; IMCE, Kyushu Univ.; Sch. Sci. Tech., Gunma Univ.; Grad. Sch. Sci., Josai Univ.) ○MORI, Sakura; MATSUMOTO, Taisuke; ASANO, Motoko; AKITA, Motoko; AKIYAMA, Tsuyoshi; KITAMURA, Thitoshi; KATO, Shin-ichiro

4C3-21 Synthesis and electronic properties of amino-substituted acenes (Grad. Sch. Eng., Kyoto Univ.) ○FUKUZUAKI, Shinya; ITO, Akihiro

Room C4

Lecture Hall Bldg. K304

Physical Organic Chemistry Structures and Properties

Sunday, March 22, PM

Molecular structure and stereochemistry

Chair: YAMAGUCHI, Shigehiro (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1C4-34, 1C4-37, 1C4-38, 1C4-39)

1C4-34 Young Scholar Lectures of CSJ Highly strained hydrocarbons with a hyper covalent bond and/or switchable redox properties by photo- and thermal isomerization (Fac. Sci., Hokkaido Univ.) ○ISHIGAKI, Yusuke

1C4-37 Synthesis of Acetylenes by Utilizing Bulkiness of Silyl Groups (Grad. Sch. Urban Envr. Sci., TMU) ○KOMATSUBARA, Kazuki; INAGAKI, Yusuke; SETAKA, Wataru

1C4-38 Correlated molecular dynamics (gearing motion) of Hexa-arylbenzene moiety in solid-state (WPI-ICReDD, Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○JIN, Mingoo; ANDO, Rempei; GARCIA-GARIBAY, Miguel; ITO, Hajime

1C4-39 Molecular gearing motions of hexa(2-pyridyl)benzene in solid-state mediated by stadium shape molecule (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○ANDO, Rempei; JIN, Mingoo; GARCIA-GARIBAY, Miguel; ITO, Hajime

Chair: SETAKA, Wataru (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(1C4-41, 1C4-42, 1C4-43, 1C4-44, 1C4-45, 1C4-46)

1C4-41 A unique redox behavior of 11,11,12,12-tetrahyenyl-9,10-anthraquinodimethane derivative exhibiting a change in closed-shell and open-shell species (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○ISHIGAKI, Yusuke; ○HASHIMOTO, Takumi; SUGAWARA, Kazuma; SUZUKI, Shuichi; SUZUKI, Takanori

1C4-42 Polymorphs containing multi-configurations of polyaryl-substituted 1,4,5,8-tetraaza-9,10-anthraquinodimethane derivatives (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○SUGAWARA, Kazuma; ISHIGAKI, Yusuke; SUZUKI, Takanori

1C4-43 Preparation of novel tetraazaanthraquinodimethane derivatives (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) ○SUGAWARA, Kazuma; ISHIGAKI, Yusuke; SUZUKI, Takanori

1C4-44 Mechanism of SmA-Color mesomorphic phase transition for calamitic-discotic bimesomorphic ester-linked alkoxyazobenzene-triphenylene compounds (Fac. Sci. Tech., Ryukoku Univ.; Grad. Sch. Mat. Sci., NAIST; JASRI) ○SANADA, Hikaru; KITAGAWA, Koji; NAKAMURA, Hiroto; OHTA, Noboru; SEKIGUCHI, Hiroshi; HATTORI, Yohei; KAWAI, Tsuyoshi; UCHIDA, Kingo; SHIMIZU, Yo

1C4-45 Liquid crystalline compounds with rod- and disc-shaped molecular parts: mesomorphic phase transitions of ether-linked alkoxyazobenzene-triphenylene derivatives (Grad. Sch. Sci. Tech., Ryukoku Univ.; Grad. Sch.

Mat. Sci., NAIST) ○KITAGAWA, Koji; SANADA, Hikaru; NAKAMURA, Hiroto; MINOBE, Ryota; MATSUMOTO, Hiroki; KAWAHARA, Naoki; OHTA, Noboru; SEKIGUCHI, Hiroshi; HATTORI, Yohei; KAWAI, Tsuyoshi; UCHIDA, Kingo; SHIMIZU, Yo

1C4-46 Study of the control of photoisomerization/aromatization of stilbazoles (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○UENO, Masaharu; OHMURA, Satoshi; MIYOSHI, Norikazu

Chair: YAMAGUCHI, Masahiko (16 : 50~17 : 50)

* 16:40-16:50: interval for laptop PC connection.(1C4-48, 1C4-49, 1C4-50, 1C4-51, 1C4-52)

1C4-48 Preparation and redox behavior of bis(triarylmethyl)onium-type macrocyclic dication (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ISHIGAKI, Yusuke; ○TACHIBANA, Takuya; SUZUKI, Takanori

1C4-49 A novel response system based on 1,6-hydride shift of [C-H⁺···C⁻] bridged cation (Fac. Sci., Hokkaido Univ.; Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ISHIGAKI, Yusuke; ○HAYASHI, Yuki; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi; SUZUKI, Takanori

1C4-50 Multi-step Deprotonation of Trefoil Azine (Grad. Sch. Eng., Univ. of Fukui) ○TANIGUCHI, Norihiro; NAITO, Masaya; MIYAGAWA, Shinobu; TOKUNAGA, Yuji

1C4-51 Chiral Self-assembled Dimer Formation of Tris(m-terphenyltriazolyl)-Propeller-shaped Molecules with Amide Groups via Six-fold Hydrogen-bondings (Fac. Sci., TUS) ○ISHII, Taro; ONO, Kosuke; KAWAI, Hidetoshi

1C4-52[#] Molecular Gears with a Stimuli-responsive Braking System (Lab. Chem. Life Sci., Tokyo Tech.) ○TSUCHIDO, Yoshitaka; SANNO, Makoto; OSAKADA, Kohtaro

Chair: ISHIGAKI, Yusuke (18 : 00~18 : 40)

* 17:50-18:00: interval for laptop PC connection.(1C4-55, 1C4-56, 1C4-57, 1C4-58)

1C4-55 X-ray observation of a chiral hemiacetal within a metal-peptide porous crystal (Grad. Sch. Eng., The Univ. of Tokyo) ○SAITO, Ami; SAWADA, Tomohisa; FUJITA, Makoto

Helicene

1C4-56 Synthesis of Optically Active Quadruple [4]Helicenes Using a Chrysenes Framework and Their Chiroptical Properties (Sch. Eng., Nagoya Univ.) ○YAMAKAWA, Shoya; IKAI, Tomoyuki; YASHIMA, Eiji

1C4-57 Enantioselective Synthesis of Triple Helicene by Crossed-Cyclotrimerization of Helicenyl Aryne and Alkyne (Grad. Sch. Sci., Osaka Pref. Univ.) ○YUBUTA, Ayaka; HOSOKAWA, Tomoka; TSURUSAKI, Akihiro; KAMIKAWA, Ken

1C4-58 Synthesis and reaction of optically active 1,12-dimethylbenzo[*c*]phenanthrene with disulfide bridge at the methyl groups (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAWATO, Tsukasa; ○MAESAKI, Kaito; FUKUMOTO, Kohei; ARISAWA, Mieko; YAMAGUCHI, Masahiko

Monday, March 23, AM

Chair: NAKANO, Koji (9 : 30 ~ 10 : 30)

* 9:20-9:30: interval for laptop PC connection.(2C4-04, 2C4-05, 2C4-06, 2C4-07, 2C4-08, 2C4-09)

2C4-04 Formation of Hetero-double-helix and Multi-lamellar Vesicle of Pseudoenantiomeric Oxymethylenehelicene Oligomers with Terminal C16 Alkyl Groups (Grad. Sch. Pharm. Sci., Tohoku Univ.) ○SAWATO, Tsukasa; YAMAGUCHI, Masahiko

2C4-05 Figure-eight Thermal Hysteresis of Aminomethylenehelicene Oligomers with Terminal Long Alkyl Groups (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAWATO, Tsukasa; ○IWAMOTO, Rina; YAMAGUCHI, Masahiko

2C4-06 Stimulus Responses of Main-chain Liquid Crystal Elastomers Containing Helical Oligomers with the Pseudoenantiomers (Grad. Sch. Pharm. Sci., Tohoku Univ.) SAWATO, Tsukasa; ○YOSHIDA, Miyu; YAMAGUCHI, Masahiko

2C4-07 Synthesis and Physical Properties of Polyhelicene by the Polymerization of a Helicenyl Aryne (Grad. Sch. Sci., Osaka Pref. Univ.) ○YAMAGUCHI, Hiroki; TSURUSAKI, Akihiro; KAMIKAWA, Ken

2C4-08 Synthesis of Laterally π -Expanded Helicenes and Theoretical Evaluation of Their Molecular Spring Properties (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) ○NAKAKUKI, Yusuke; HIROSE, Takashi; MATSUDA, Kenji

2C4-09 Synthesis and properties of N-containing nanographene with a [7] helicene moiety (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.) ○KOIKE, Keisuke; SASAKI, Yoshiki; TAKASE, Masayoshi; MORI, Shigeki; UNO, Hidemitsu

Chair: TOYOTA, Shinji (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(2C4-11, 2C4-13, 2C4-14)

2C4-11[#] Control of physicochemical properties of π -extended azahelicenes by regioselective functionalizations (Grad. Sch. Human and Environ. Stud.,

Kyoto Univ.; Grad. Sch. Human and Environ. Stud., Kyoto Univ.)
WAKITA, Mana; ○HIROTO, Satoru

- 2C4-13[#]** Synthesis and Properties of Spiro Double Sila[7]helicene (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TERADA, Nozomi; UEMATSU, Keisuke; HIGUCHI, Ryota; TOKIMARU, Yuki; SATO, Yosuke; NAKANO, Koji; NOZAKI, Kyoko

Molecular chirality

- 2C4-14** Young Scholar Lectures of CSJ Development of axially chiral luminescent dyes based on conformational restriction (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TAKAISHI, Kazuto

Monday, March 23, PM

Chair: ARATANI, Naoki (12 : 50~13 : 50)

- * 12:40-12:50: interval for laptop PC connection.(2C4-24, 2C4-25, 2C4-26, 2C4-28, 2C4-29)
- 2C4-24** Synthesis and Chiroptical Properties of Novel π -Expanded Helicenes with Multiply Fused Anthracenes (Sch. Sci., Tokyo Tech.; Grad. Sch. Sci. Eng., Kindai Univ.) ○FUJISE, Kei; TSURUMAKI, Eiji; TOYOTA, Shinji; HARA, Nobuyuki; IMAI, Yoshitane
- 2C4-25** Synthesis and Chiroptical Properties of Pyrene Dimers Covalently Linked to a Helical π -Conjugation (ICR, Kyoto Univ.) ○KOYAMA, Tomohisa; HIROSE, Takashi; HASHIKAWA, Yoshifumi; MURATA, Yasujiro
- 2C4-26[#]** Synthesis of a Figure-of-Eight Shaped Helicene Dimer Showing an Excellent CPL (Grad. Sch. Eng., Kyoto Univ.; ICR, Kyoto Univ.) ○KUBO, Hiromu; HIROSE, Takashi; MATSUDA, Kenji
- 2C4-28** Photophysical properties of chiral perylene diimide derivatives (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○HOSOYA, Tomomasa; KANESAKA, Aoba; YAMAGUCHI, Akira; IMAI, Yoshitane; NISHIKAWA, Hiroyuki
- 2C4-29** Synthesis and chiroptical properties of cyclic pyrene tetramer having D_2 point group. (Fac. Sci., TMU) ○KUWAHARA, Yasutaka; HASEGAWA, Masashi; YAMASHITA, Ken-ichi; SUGIURA, Ken-ichi

Chair: SUGIURA, Ken-ichi (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(2C4-31, 2C4-32, 2C4-34, 2C4-36)
- 2C4-31** Chiral fullerenes developed by a double addition to C_{70} (Grad. Sch. Sci. & Tech., NAIST) ○KANO, Haruka; FUJIKI, Michiya; ARATANI, Naoki; YAMADA, Hiroko
- 2C4-32[#]** Circularly Polarized luminescence (CPL) and Magnetic Circularly Polarized luminescence (MCPL) from Paracyclophane Luminophores (Grad. Sch. Sci. Eng., Kindai Univ.; ORIST) ○HARA, Nobuyuki; SHIZUMA, Motohiro; IMAI, Yoshitane

Photophysical properties

- 2C4-34^{*}** Synthesis of a Series of Azulene Incorporated Oligorylenes (Grad. Sch. Sci. & Tech., NAIST) ○ARATANI, Naoki; UEHARA, Keiji; MATSUO, Kyohei; YAMADA, Hiroko
- 2C4-36** Theoretical study on stacking structure dependence of open-shell characters, aromaticities and optical response properties in tetracyclopentatetraphenylene π -dimer (Grad. Sch. Eng. Sci., Osaka Univ.) ○SUGIURA, Ryosuke; KISHI, Ryohei; NAGAMI, Takanori; KITANO, Shoma; SHIMIZU, Yosuke; TOBE, Yoshito; NAKANO, Masayoshi

Chair: HASEGAWA, Masashi (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(2C4-38, 2C4-39, 2C4-40, 2C4-41, 2C4-42, 2C4-43)
- 2C4-38** Synthesis of wave-shaped linear [n]spirobifluorenylene (Grad. Sch. Eng., Osaka Univ.) ○ONIKI, Junpei; AKIMOTO, Kanaru; MORIUCHI, Toshiyuki; TOBISU, Mamoru; AMAYA, Toru
- 2C4-39** Synthesis of Helical Linear[n]Spirobifluorenylene (Grad. Sch. Eng., Osaka Univ.) ○KAMOCHI, Kosuke; AKIMOTO, Kanaru; TOBISU, Mamoru; AMAYA, Toru
- 2C4-40[#]** Synthesis, structure, and properties of chiral cyclic [n]spirobifluorenylene with Penrose stairs motif (Grad. Sch. Eng., Osaka Univ.) ○ZHU, Kaige; KODAMA, Takuya; TOBISU, Mamoru; AMAYA, Toru
- 2C4-41** Synthesis and circularly polarized luminescence properties of chiral heterocycle-fused 9,9'-spirobifluorene derivatives (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KUBO, Masahiro; NOGUCHI, Keiichi; NAKANO, Koji
- 2C4-42** Synthesis and optical properties of chiral π -extended spirobi(indeno [1,2-*b*]thiophene) derivatives (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○IIDA, Hirokazu; NAKAJIMA, Yuri; TAKASE, Ko; NAKANO, Koji
- 2C4-43** Peryleneimide dimer that senses a slight viscosity change (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST; RAP, RIKEN; Molecular Spectroscopy Lab., RIKEN) ○KIMURA, Ryo; KURAMOCHI, Hikaru; TAHARA, Tahei; LIU, Pengpeng; OSUKA, Atsuhiko; SAITO, Shohei

Chair: AMAYA, Toru (16 : 20~17 : 20)

- * 16:10-16:20: interval for laptop PC connection.(2C4-45, 2C4-46, 2C4-47, 2C4-48, 2C4-49, 2C4-50)
- 2C4-45** Synthesis and Properties of a C_{70} -Fragment Showing NIR Absorption (Grad. Sch. Eng., Nagoya Univ.) TANAKA, Yuki; ○FUKUI, Norihito; SHINOKUBO, Hiroshi
- 2C4-46** Polymorphism and fluorescence properties of phenylanthracene derivatives (KIT) ○KANNEN, Fumihiko; KUSUKAWA, Takahiro
- 2C4-47** Mechanochromic properties of anthracene derivatives having an amide group (KIT) ○SHIBATA, Seiji; KANNEN, Fumihiko; KUSUKAWA, Takahiro

PAH

- 2C4-48[#]** Oxidative intramolecular multiple C-C bonds formation reactions of 1,2- diarylbenzenes (Grad. Sch. Sci., TMU) ○ISLAM, Md. Rafikul; SUGIURA, Ken-ichi
- 2C4-49** Synthesis and metal complexation of benzotropone analogues (Grad. Sch. Eng., Osaka Univ.) ○KAWASHIMA, Yuki; KODAMA, Takuya; TOBISU, Mamoru
- 2C4-50** Direct C-H borylation of pristine hexabenzocoronene (Grad. Sch. Sci., Nagoya Univ.; ERATO, JST; WPI-ITbM, Nagoya Univ.) ○NAGASE, Mai; KATO, Kenta; YAGI, Akiko; SEGAWA, Yasutomo; ITAMI, Kenichiro

Tuesday, March 24, AM

Chair: SEGAWA, Yasutomo (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3C4-04, 3C4-06, 3C4-07, 3C4-08, 3C4-09)
- 3C4-04^{*}** Synthesis and Photophysical Properties of Chiral Acene Dimers Linked by a Binaphthyl Unit (Fac. Sci. Tech., Keio Univ.; IMRAM, Tohoku Univ.; Department of Chemistry and Bioengineering, Tampere Univ.) ○SAKAI, Hayato; ARAKI, Yasuyuki; WADA, Takehiko; TKACHENKO, Nikolai; HASOBE, Taku
- 3C4-06** Development of a circularly polarized luminescent molecule utilizing a helical and antiaromatic molecular skeleton (Grad. Sch. Pharm., The Univ. of Tokyo) ○TANAKA, Yusuke; MURAYAMA, Tomotaka; MURANAKA, Atsuya; UCHIYAMA, Masanobu
- 3C4-07** Synthesis and properties of propeller-shaped fluorophore bearing coumarin (Sch. Sci., Kitasato Univ.) ○UEDA, Masafumi; KOKUBUN, Mirai; AMISHIRO, Sae; MAZAKI, Yasuhiro
- 3C4-08** Binaphthyl dimer with doubly twisted geometry enhancing chiroptical properties (Grad. Sch. Sci., Kitasato Univ.) ○NOJIMA, Yuuki; HASEGAWA, Masashi; HARA, Nobuyuki; IMAI, Yoshitane; MAZAKI, Yasuhiro
- 3C4-09** Controlled Synthesis of Graphene Nanoribbons with Zigzag-Edge in Metal-Organic Frameworks (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○NAKATA, Kazuki; KITAO, Takashi; UEMURA, Takashi

Nonplanar conjugated compounds

Chair: MURATA, Yasujiro (10 : 40~11 : 40)

- * 10:30-10:40: interval for laptop PC connection.(3C4-11, 3C4-12, 3C4-13, 3C4-14)
- 3C4-11** Synthesis of cycloptycenes from carbon nanobelt (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○SHUDO, Hiroki; KUWAYAMA, Motonobu; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 3C4-12[#]** Synthesis of a Zigzag Type Carbon Nanobelt (WPI-ITbM, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; ERATO, JST) ○CHEUNG, Kwan Yin; SEGAWA, Yasutomo; ITAMI, Kenichiro
- 3C4-13** Synthesis of Mobius Carbon Nanobelt (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○SEGAWA, Yasutomo; WATANABE, Tsugunori; YAMANOUE, Kotono; ITAMI, Kenichiro
- 3C4-14[#]** Young Scholar Lectures of CSJ Synthesis and Properties of Highly Aromatic Rings Congested Pi-Clusters (Grad. Sch. Sci., Osaka Univ.) ○NISHIUCHI, Tomohiko

Tuesday, March 24, PM

Chair: NISHIUCHI, Tomohiko (12 : 50~13 : 50)

- * 12:40-12:50: interval for laptop PC connection.(3C4-24, 3C4-25, 3C4-26, 3C4-27, 3C4-28, 3C4-29)
- 3C4-24** Synthesis of unsubstituted polyarylenes (Grad. Sch. Sci., Nagoya Univ.; ERATO, JST; WPI-ITbM, Nagoya Univ.) ○FUJIKI, Shusei; YAGI, Akiko; ITAMI, Kenichiro
- 3C4-25** Synthesis and Structures of Hoop-shaped Geodesic Phenine Frameworks (Grad. Sch. Sci., The Univ. of Tokyo) ○MIO, Tatsuru; SUN, Zhe; IKEMOTO, Koki; SATO, Sota; ISOBE, Hiroyuki

Cycloparaphenylene

- 3C4-26** Synthesis and chiroptical properties of curved paraphenylene anchored by chiral binaphthyl (Grad. Sch. Sci., Kitasato Univ.) ○SATO, Kenta; HASEGAWA, Masashi; HARA, Nobuyuki; IMAI, Yoshitane;

MAZAKI, Yasuhiro

3C4-27 Energetics in hybrid structures between cycloparaphenylene and carbon nanotubes : Dispersion-corrected density functional theory (DFT) calculations. (KIT) ○MIKI, Ryohei; YUMURA, Takashi; HUKUURA, Syuta

3C4-28 Non-covalent modification of [9]Cycloparaphenylene (Sch. Sci., Nagoya Univ.; ERATO, JST; WPI-ITbM, Nagoya Univ.) ○AKAGAMI, Ryo; MAEKAWA, Takehisa; YAGI, Akiko; ITAMI, Kenichiro

3C4-29 Synthesis of Zigzag Molecular Belts by Rhodium-Catalyzed Intramolecular [2+2+2] Cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NOGAMI, Juntaro; TANAKA, Ken

Chair: YAMAGO, Shigeru (14 : 00~14 : 30)

* 13:50-14:00: interval for laptop PC connection.(3C4-31)

3C4-31 CSJ Award for Young Chemists Molecular Design Using Trigonal Planar "Phenine" toward Functional Nanocarbon Molecules (Grad. Sch. Sci., The Univ. of Tokyo) ○IKEMOTO, Koki

Cycloparaphenylene

Chair: HIROSE, Takashi (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(3C4-35, 3C4-36, 3C4-37, 3C4-38)

3C4-35 Synthesis, Structures, and Properties of Singly Twisted Chiral Carbon Nanorings (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WANG, Lai-sheng; TANAKA, Ken

3C4-36 Synthesis and In-Plane Aromaticity of Dications of Cycloparaphenylene Derivatives Having Mobius Topology (ICR, Kyoto Univ.) ○TERABAYASHI, Tomoaki; KAYAHARA, Eiichi; KATO, Tatsuhisa; YAMAGO, Shigeru

3C4-37 Electronic structure of dications of cycloparaphenylene derivatives having figure-eight structure (ICR, Kyoto Univ.) ○ONOZUKA, Kota; KAYAHARA, Eiichi; KATO, Tatsuhisa; YAMAGO, Shigeru

3C4-38 Synthesis and Characterization of a Doubly Annulated Cycloparaphenylene and Its Oxidized Species (ICR, Kyoto Univ.) ○SUN, Liansheng; KAYAHARA, Eiichi; KATO, Tatsuhisa; YAMAGO, Shigeru

PAH

Chair: IKEMOTO, Koki (15 : 40~16 : 40)

* 15:30-15:40: interval for laptop PC connection.(3C4-41, 3C4-42, 3C4-43, 3C4-44, 3C4-45)

3C4-41 Precise synthesis of diverse graphene nanoribbons by living annulative π -extension polymerization (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; CREST, JST) ○MATSUSHIMA, Kaho; YANO, Yuuta; KATO, Erika; NAKATSUJI, Hidefumi; ITO, Hideto; ITAMI, Kenichiro

3C4-42 Synthesis and Properties of Ladder-Shaped π -Cluster Molecules Composed of Anthracene Units (Grad. Sch. Sci., Osaka Univ.) ○AKAZAWA, Yuki; NISHIUCHI, Tomohiko; KUBO, Takashi

Fullerene

Chair: ITO, Hideto (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(3C4-48, 3C4-49, 3C4-50, 3C4-51, 3C4-52)

3C4-48 Complex formation of cage-type anthracene macrocyclic compound with fullerenes. (Sch. Sci., Tokyo Tech.) ○KAJIYAMA, Kazuki; TSURUMAKI, Eiji; FUKUHARA, Gaku; WAKAMATU, Kan; TOYOTA, Shinji

3C4-49 Synthesis and Properties of Fulleropyrrolidine Having *N*-PEG-substituted Pyridinium Unit (Grad. Sch. Eng., Sojo Univ.) ○KAJITANI, Tomomi; MIZUKI, Keiji; HATTA, Taizo

3C4-50 Control of the photoluminescence properties of single-walled carbon nanotubes by chemical functionalization using dibromoalkanes: Influence of alkyl chain lengths of dibromoalkanes (Fac. of Edu., Tokyo Gakugei Univ.) ○MORISHITA, Tatsunari; KURODA, Kiyonori; TAMBO, Haruto; MIYASAKA, Naoto; YAMADA, Michio; MAEDA, Yutaka; PEI, Zhao; EHARA, Masahiro

Nonplanar conjugated compounds

3C4-51 Synthesis and properties of tape-shaped polycyclic aromatic molecules consisted of corannulene as structural motif (Dept. of Sci. Tech., Meiji

Univ.) ○FURUKAWA, Masazumi; TAHARA, Kazukuni

3C4-52 Study on the Synthesis of High-Ordered Iptycene Derivatives (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○JUNG, Sunna; HAMURA, Toshiyuki

Chair: TAHARA, Kazukuni (17 : 50~18 : 30)

* 17:40-17:50: interval for laptop PC connection.(3C4-54, 3C4-55, 3C4-56, 3C4-57)

3C4-54 Photo-rearrangement and π -splitting reaction of a polyene analogue cross-conjugated to carbonyl groups (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○INABA, Yuya; YONEDA, Tomoki; INOKUMA, Yasuhide

3C4-55 Synthesis of π -Expanded Ferrocene (Grad. Sch. Sci. & Tech., NAIST) ○MORIMOTO, Hirofumi; MATSUO, Kyohei; YAMADA, Hiroko; ARATANI, Naoki

3C4-56 Synthesis and properties of diruthenium complexes with redox active ligands at equatorial position. (Grad. Sch. Sci., Kitasato Univ.) ○MIYAGAWA, Daiki; TSUCHIYA, Takahiro; YOSHINARI, Erika; KUSHIDA, Shunsuke; MAZAKI, Yasuhiro

3C4-57 Synthesis and Characterization of Fluorinated Distyrylbenzene (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○FURUSHO, Daisuke; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke

Wednesday, March 25, AM

PAH

Chair: MURATA, Michihisa (9 : 20 ~10 : 30)

* 9:10-9:20: interval for laptop PC connection.(4C4-03, 4C4-04, 4C4-06, 4C4-07, 4C4-08, 4C4-09)

4C4-03 Synthesis and Properties of π -Extended Pentalenes with 2,3-Naphthoannulation (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; ○IWASA, Haruna; YASUDA, Makoto

4C4-04 Development of New Polarizing Agents Using Acenes for Dynamic Nuclear Polarization (Sch. Sci. Tech., Kwansai Gakuin Univ.; RIKEN Nishina Center for Accelerator-Based Science) ○ADACHI, Kazuhiko; TATEISHI, Kenichiro; HOSHINO, Sota; JUNG, Sunna; UESAKA, Tomohiro; HAMURA, Toshiyuki

4C4-06 Solid-state thermochromic behavior of bianthrone derivatives (Grad. Sch. Sci., Osaka Univ.) HAMAMOTO, Yosuke; ○HIRAO, Yasukazu; KUBO, Takashi

4C4-07 Syntheses and Properties of Stable-radical-linked Pentacene Derivatives (Grad. Sch. Sci., Osaka City Univ.) ○YOSHIDA, Kohei; MINAMI, Nishiki; TEKI, Yoshio

4C4-08 Synthetic Study of Bisorthoquinone-Containing[11]phenacene Derivative for Application to The Stepwise Redox Switching (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Fac. Adv. Sci. Tech., Kumamoto Univ.) ISHIKAWA, Hayato; ○AOKI, Kaede; KAWABATA, Yuta

4C4-09 Synthesis of High-Ordered Polyacenes by Cycloaddition Reactions with Thermodynamically Stable *ortho*-Quinodimethane (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○ADACHI, Kazuhiko; HAMURA, Toshiyuki

Chair: YAMADA, Hiroko (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(4C4-11, 4C4-12, 4C4-13, 4C4-14)

4C4-11 Direct Synthesis and Properties of PAH with Pentagonal and Heptagonal Rings (Grad. Sch. Eng., OIT; Fac. Eng., OIT; PRESTO, JST) ○TOGO, Masahiro; HARADA, Ai; MISHIMA, Daisuke; MURAOKA, Masahiro; MURATA, Michihisa

4C4-12 Synthesis of aromatic compounds with Three-dimensional Ball Mill (NIT, Sendai College) ○ENDO, Tomoaki; NAGAO, Fumiyoshi; NAGAO, Tomoharu; YAMAOKA, Yasuaki; KWON, Eunsang; NAGAIRO, Shin-ichiro

4C4-13 Synthesis and Properties of π -Extended Thiele's and Chichibabin's Hydrocarbons Composed of Tri(9-anthryl)methyl Skeleton (Grad. Sch. Sci., Osaka Univ.) ○AIBARA, Seito; NISHIUCHI, Tomohiko; KUBO, Takashi

4C4-14 Young Scholar Lectures of CSJ Construction of Non-Alternant Hydrocarbons Using Lewis Acidic Metals and Elucidation of Their Electronic Properties (Grad. Sch. Eng., Osaka Univ.) ○KONISHI, Akihito

Wednesday, March 25, PM

Chair: JUNG, Sunna (13 : 10~13 : 50)

* 13:00-13:10: interval for laptop PC connection.(4C4-26, 4C4-28, 4C4-29)

4C4-26 Synthesis and properties of polycyclic conjugated hydrocarbon embedding planar heptagon (Grad. Sch. Eng., Osaka Univ.) ○HORII, Koki; KONISHI, Akihito; YASUDA, Makoto

4C4-28 Formation of Host-Guest Complexes Based on Cyclic Pyrene Oligomers Having π -Surrounded Nano Space (Grad. Sch. Sci. & Tech., NAIST) ○KUROSAKI, Ryo; ARATANI, Naoki; YAMADA, Hiroko

4C4-29 Synthesis of aromatic ladder polymer in Metal-Organic Frameworks (Fac. Eng., The Univ. of Tokyo) ○MIURA, Takumi; KITAO, Takashi; UEMURA, Takashi

Macrocyclic compounds

Chair: KONISHI, Akihito (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(4C4-31, 4C4-32, 4C4-33, 4C4-34, 4C4-35, 4C4-36)
- 4C4-31** Synthesis and properties of cyclic vinylene-thienylene trimer and tetramer (Coll. Eng. Sci., Yokohama Natl. Univ.; Grad. Sch. Sci., TMU) ○OKUBO, Hiroataka; FUJIWARA, Toshihiro; OTANI, Hiroyuki; IYODA, Masahiko
- 4C4-32** Unique Structures and Electronic Properties of π -Extended Cyclic Thiophene 6-Mers Containing Vinylene and Ethynylene Linkages. (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.; Sch. Sci., Kitasato Univ.; Grad. Sch. Sci., TMU) ○SHIRAHATA, Keigo; OTANI, Hiroyuki; HASEGAWA, Masashi; IYODA, Masahiko
- 4C4-33** Electronic States and Cyclic Conjugation of the Dication Derived from π -Extended Macrocyclic Thiophene Oligomers (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.; Elements Chem. Lab., RIKEN; Grad. Sch. Sci., TMU; Fac. Textile Sci. Technol., Shinshu Univ.) ○FUJIWARA, Toshihiro; MURANAKA, Atsuya; NISHINAGA, Tohru; OTANI, Hiroyuki; KOBAYASHI, Nagao; IYODA, Masahiko
- 4C4-34** Synthesis and electronic properties of macromulticyclic aromatic amines (Grad. Sch. Eng., Kyoto Univ.) ○NODA, Naoki; ITO, Akihiro; FUKUZAKI, Shinya
- 4C4-35** Synthesis and properties of macrocyclic bis (triarylamine) (Grad. Sch. Eng., Kyoto Univ.) ○TAKASAKI, Fumiya; ITO, Akihiro; UEBE, Masashi; Ooba, Akiyoshi
- 4C4-36** Synthesis and Properties of Macrocyclic Oligomers Consisting of 2,7-Substituted Acridone Units (Sch. Sci., Tokyo Tech.) ○KOMORI, Takashi; TOYOTA, Shinji

Room C5
Lecture Hall Bldg. K305

Chemical Biology

Sunday, March 22, AM

Chair: TANABE, Kazuhito (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1C5-08, 1C5-09, 1C5-10, 1C5-11, 1C5-12, 1C5-13)
- 1C5-08** Precise control of receptor signaling using functional oligonucleotides (1) (Fac. Eng., The Univ. of Tokyo) ○WATANABE, Yuma; AKIYAMA, Momoko; UEKI, Ryosuke; SANDO, Shinsuke
- 1C5-09** Precise control of receptor signaling using functional oligonucleotides (2) (Grad. Sch. Eng., The Univ. of Tokyo) ○AKIYAMA, Momoko; YANAGAWA, Masataka; MIROSHIMA, Michio; SAKO, Yasushi; UEKI, Ryosuke; SANDO, Shinsuke
- 1C5-10[#]** A novel system for controlling cellular functions based on DNA aptamers (The Univ. of Tokyo) ○LIU, Hanrui; UEKI, Ryosuke; SANDO, Shinsuke
- 1C5-11** Identification of anticancer drugs targeting DNA-methyltransferases. (Grad. Sch. Fac. Sci. Technol., TUS) ○KUBO, Yuhei; TOJO, Toshifumi; KONDO, Takeshi; YUASA, Makoto
- 1C5-12** Development of naphthalene diimide derivatives as a parallel type G-quadruplex binder (Grad. Sch. Eng., KIT) ○SATO, Shinobu; IKEDA, Takumi; YASUKAWA, Rui; ZOU, Tingting; TAKENAKA, Shigeori
- 1C5-13** Chemical synthesis of intramolecular FRET H2B for the analysis of interaction between histone proteins (Grad. Sch. Eng., The Univ. of Tokyo) ○OGATA, Motoyuki; HAYASHI, Gosuke; OKAMOTO, Akimitsu

Chair: TAMURA, Tomonori (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(1C5-15, 1C5-16, 1C5-17, 1C5-18, 1C5-19)
- 1C5-15** Development of Anthraquinone derivatives for Raman imaging probe for measurement of Intracellular viscosity (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○MAKANAI, Hiroki; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 1C5-16** Development of fluorescent protein-labeling probe using a prodrug of β -lactamase inhibitor (Grad. Sch. Eng., Osaka Univ.) ○UMENO, Taro; MINOSHIMA, Masafumi; KIKUCHI, Taro
- 1C5-17[#]** Development of reversible protein labeling method using exchangeable fluorogenic probes (Grad. Sch. Eng., Osaka Univ.) ○REJA, Shahi Imam; SOWA, Toshiyasu; MINOSHIMA, Masafumi; KIKUCHI, Kazuya
- 1C5-18[#]** Molecular Profiling of Lipid Droplets inside Single Cells with Raman Micro-Spectroscopy and Multivariate Curve Resolution (Research Org. for Nano & Life Innovation, Waseda Univ.) ○SAMUEL, Ashok; MIYAOKA, Rimi; ANDO, Masahiro; THIELE, Christoph; TAKEYAMA, Haruko
- 1C5-19** Development of aminopeptidase-targeted fluorescence probes with improved cellular retention. (Grad. Sch. Med., The Univ. of Tokyo) ○OBARA, Rui; KAMIYA, Mako; URANO, Yasuteru

Sunday, March 22, PM

Chair: SATO, Shnichi (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(1C5-29, 1C5-31, 1C5-32, 1C5-33)
- 1C5-29*** Chemical labeling of endogenous GABA(A) receptors by ligand-directed chemistry (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○SAKAMOTO, Seiji; HARADA, Fumio; KIYONAKA, Shigeki; NONAKA, Hiroshi; HAMACHI, Itaru
- 1C5-31** Polymer ligand directed chemistry: In vivo chemical modification in tumors (Sch. Eng., Kyoto Univ.; ERATO, JST) ○TORIGOE, Shogo; KUBOTA, Ryou; HAGI, Shinichiro; IKEDA, Ryosuke; HAMACHI, Itaru
- 1C5-32** Chemical labeling of voltage-dependent calcium channel in live brain using a peptide toxin Agatoxin. (Grad. Sch. Eng., Kyoto Univ.) ○MINO, Takeharu; GOTO, Taiki; TAMURA, Tomonori; SAKAMOTO, Seiji; HAMACHI, Itaru
- 1C5-33*** Synthetic and phase-separating protein engineering for the regulation of intracellular molecules (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YOSHIKAWA, Masaru; IKUTA, Masahiro; HATANO, Yuka; YOSHII, Tatsuyuki; TSUKIJI, Shinya

Chair: TSUKIJI, Shinya (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(1C5-36, 1C5-37, 1C5-38, 1C5-39, 1C5-40)
- 1C5-36** Site-selective tyrosine labeling of antibody on catalyst-functionalized affinity beads (Tokyo Tech.) ○NAKANE, Keita; SATO, Shinichi; TSUSHIMA, Michihiko; NIWA, Tatsuya; TA, Hideki; NAKAMURA, Hiroyuki
- 1C5-37** Comparative evaluation of catalytic and electrochemical tyrosine click reactions (IIR, Tokyo Tech.) ○SATO, Shnichi; NAKAMURA, Hiroyuki
- 1C5-38[#]** Aqueous metathesis approach toward in vivo aromatic synthesis (Biofunc. Syn. Chem. Lab., RIKEN; RIKEN BZP; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU) ○SMIRNOV, Ivan; NASIBULLIN, Igor; KURBANGALIEVA, Almira; TANAKA, Katsunori
- 1C5-39** Ligand directed chemistry in living mouse brain (1): Selective chemical labeling of glutamate receptors in the cerebellum (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○SHIRAIWA, Kazuki; NONAKA, Hiroshi; KIYONAKA, Shigeki; HAMACHI, Itaru
- 1C5-40*** Ligand directed chemistry in living mouse brain (2): Chemical labeling and three-dimensional imaging of glutamate receptors in the whole brain (Grad. Sch. Eng., Kyoto Univ.) ○NONAKA, Hiroshi; SHIRAIWA, Kazuki; HAMACHI, Itaru

Chair: NAKAMURA, Hiroyuki (16 : 00~17 : 00)

- * 15:50-16:00: interval for laptop PC connection.(1C5-43, 1C5-44, 1C5-45, 1C5-46, 1C5-47, 1C5-48)
- 1C5-43** New Chemical Genetics for GPCR (1): Proposal of the Extracellular Loop Engineering (Grad. Sch. Eng., Nagoya Univ.) ○DOURA, Tomohiro; HASEGAWA, Kanta; KIYONAKA, Shigeki
- 1C5-44** New Chemical Genetics for GPCR(2): Artificial Regulating of Glutamate Receptor by novel Bump x Bump method. (Grad. Sch. Eng., Nagoya Univ.) ○HASEGAWA, Kanta; DOURA, Tomohiro; KIYONAKA, Shigeki
- 1C5-45** Activation of LSD1 Inhibitor Peptides Inside Cells (Grad. Sch. Pharm. Sci., Nagoya City Univ.) ○KITAGAWA, Hiroki; KIKUCHI, Masaki; SATO, Shin; WATANABE, Hisami; UMEZAWA, Naoki; HISAMATSU, Yosuke; UMEHARA, Takashi; HIGUCHI, Tsunehiko
- 1C5-46** Withdrawn
- 1C5-47** Comprehensive screening of enzyme substrate peptides using cDNA display technology (Grad. Sch. Sci., Eng., Saitama Univ.) ○TERAI, Takuya; SOU, Fujitani; NAOTO, Nemoto
- 1C5-48** Multifunctionalization of Phospha-xanthene Dyes by Modification of the Phosphorus Moiety (Grad. Sch. Sci., Nagoya Univ.) ○TANAKA, Yoshiki; OGASAWARA, Hiroaki; KAJIWARA, Keiji; TAKI, Masayasu; YAMAGUCHI, Shigehiro

Monday, March 23, AM

Chair: TAKAOKA, Yosuke (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2C5-08, 2C5-10, 2C5-11, 2C5-12, 2C5-13)
- 2C5-08[#]** Total synthesis and biological evaluation of non-canonical strigolactones (Syngenta Crop Protection AG; ETHZ) ○YOSHIMURA, Masahiko; FONNE-PFISTER, Raymonde; SCREPANTI, Claudio; DE MESMAEKER, Alain
- 2C5-10** Plant Imaging with Functional Peptides-Conjugated Near-infrared Fluorescent PREX 710 (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○NAKASHIMA, Natsuki; TAKI, Masayasu; NAGAE, Takuya; SATO, Yoshikatsu; HIGASHIYAMA, Tetsuya; YAMAGUCHI, Shigehiro
- 2C5-11[#]** Artificial metalloenzyme biosensor of ethylene gas in fruits and plants (Biofunc. Syn. Chem. Lab., RIKEN) ○VONG, Kenward; TANAKA, Katsunori
- 2C5-12** Structural analysis and biological activity of novel kynurenine-production inhibitor isolated from the marine cyanobacterium (Sch. Adv.

Eng., Kogakuin Univ.) ○HITOMI, Yuki; SASAKI, Tomomi; NAKAKAZE, Nanae; ASAI, Akira; TAKIKAWA, Osamu; OHNO, Osamu; MATSUNO, Kenji

2C5-13 Exploration for inhibitors of lipopolysaccharide from marine organisms (Sch. Adv. Eng., Kogakuin Univ.) ○SANO, Takuya; HITOMI, Yuki; MIYAMOTO, Junichiro; MATSUNO, Kenji; OHNO, Osamu

Chair: TSUKIJI, Shinya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2C5-15, 2C5-18, 2C5-20)

2C5-15[#] CSJ Award for Young Chemists Development of novel methods for chemical modification of endogenous proteins in living cells (Grad. Sch. Eng., Kyoto Univ.) ○TAMURA, Tomonori

2C5-18^{#*} Development of a Hyperpolarized Molecular Probe for in vivo Detection of Aminopeptidase N Activity (Grad. Sch. Eng., The Univ. of Tokyo) ○SAITO, Yutaro; KONDO, Yohei; ISHIDA, Ryo; SEKI, Tomohiro; TAMURA, Iori; YATABE, Hiroyuki; TAKAKUSAGI, Yoichi; YAMAMOTO, Kazutoshi; NONAKA, Hiroshi; MURALI C., Krishna; SANDO, Shinsuke

2C5-20 Development of Hyperpolarized Molecular Probes for in vivo Detection of Peptidase Activities (Fac. Eng., The Univ. of Tokyo) ○YATABE, Hiroyuki; SAITO, Yutaro; ISHIDA, Ryo; TAMURA, Iori; KONDO, Yohei; TAKAKUSAGI, Yoichi; YAMAMOTO, Kazutoshi; MURALI C., Krishna; SANDO, Shinsuke

Monday, March 23, PM

Chair: SAITO, Yutaro (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2C5-28, 2C5-29, 2C5-30, 2C5-31, 2C5-33)

2C5-28 Development and validation of an improved ribosome display technique for identifying target proteins of bioactive molecules (Grad. Sch. Med. Life Sci., Yokohama City Univ.; RIKEN BDR) ○TAGUCHI, Kenshiro; WADA, Akira

2C5-29 Development of covalent inhibitor targeting non-Cysteine residue (Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○KAWANO, Masaharu; UEDA, Tsuyoshi; TAMURA, Tomonori; HAMACHI, Itaru

2C5-30[#] Design Integrin-targeted Molecular Self-assembling Peptides for Cancer Migration Inhibition (OIST) ○ROY, Sona; ZHANG, Ye

2C5-31^{#*} Bicyclobutane Carboxylic Amide as a Strain-Release Type Electrophile for Selective Targeting of Proteins in Live Cells (Grad. Sch. Pharm., Kyushu Univ.) ○SHINDO, Naoya; TOKUNAGA, Keisuke; SATO, Mami; KUWATA, Keiko; OJIDA, Akio

2C5-33 Development and application of improved SNAP-tag system for protein translocation (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TAHARA, Kai; HATANNO, Yuka; YOSHII, Tatsuyuki; SHINYA, Tsukiji

Chair: OHNO, Osamu (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2C5-35, 2C5-36, 2C5-37, 2C5-38, 2C5-39, 2C5-40)

2C5-35 Search for bioactive compounds affecting neural differentiation from the marine sponge collected at Koshiki-jima Island (Sch. Advanced Sci. Eng., Waseda Univ.) ○IMAI, Hiroko; OTSUKA, Satoshi; NAKAO, Yoichi

2C5-36 Search for bioactive compounds affecting histone modifications from the flower of Citrus natsudaoidai (Sch. Advanced Sci. Eng., Waseda Univ.) ○KUDO, Kana; OTSUKA, Satoshi; NAKAO, Yoichi

2C5-37 Development of fluorogen / protein hybrid probes for fluorescence detection of RNA methylation (Grad. Sch. Eng., Osaka Univ.) ○NOMURA, Keisuke; HORI, Yuichiro; KIKUCHI, Kazuya

2C5-38 Fluorogenic Probe for Specific Labeling of Intracellular Proteins and Internalized Membrane Proteins (Grad. Sch. Eng., Osaka Univ.) ○GAO, Jingchi; HORI, Yuichiro; KIKUCHI, Kazuya

2C5-39 Development and multicolor application of PYP-tag probes with a new ligand structure (Grad. Sch. Eng., Osaka Univ.) ○ARIZONO, Satoshi; HORI, Yuichiro; UMEMO, Maho; KIKUCHI, Kazuya

2C5-40 Synthesis and evaluation of water-soluble Sondheimer diene targeting to the cellular surface (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KITAGAWA, Kohei; YOKOTA, Natsuki; TERA, Masayuki

Chair: NAKAMURA, Hiroyuki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2C5-42, 2C5-43, 2C5-44, 2C5-45, 2C5-46, 2C5-47)

2C5-42 A Study of Fluorescent-oxaboroles: Synthesis and Optical Property by Molecular Recognition (Grad. Sch. Med. Sci., Kanazawa Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; Fac. Pharm. Sci., Kobe Gakuin Univ.) ○NAKANO, Misaki; NAGAO, Kazunori; FURUYAMA, Taniyuki; INAGAKI, Fuyuhiko; SUMIDA, Yuuto; OHMIYA, Hirohisa

2C5-43 Aliphatic Oxaboroles Enabling Remarkable Recognition of Diols (Grad. Sch. Med. Sci., Kanazawa Univ.; Fac. Pharm. Sci., Kobe Gakuin Univ.) ○ARAKAWA, Nozomi; MURAKAMI, Ryo; NAGAO, Kazunori; ARAKAWA, Hiroshi; SUMIDA, Yuto; INAGAKI, Fuyuhiko; OHMIYA, Hirohisa

2C5-44 Development of photoinactivatable inverse caged CREB inhibitor for control of CREB-mediated transcriptional activity (Grad. Sch. Eng., Osaka Univ.) ○IMOTO, Takuma; MINOSHIMA, Masafumi; KIKUCHI, Kazuya

2C5-45 Development of pH-activatable Fluorescent Probe for Visualizing Osteocyte Activity (Grad. Sch. Eng., Osaka Univ.) ○HASHIMOTO, Ryu; MINOSHIMA, Masafumi; KIKUCHI, Kazuya

2C5-46 Allosteric Activation of Class C GPCR by Coordination Chemogenetics. (Sch. Eng., Nagoya Univ.) ○SOGA, Kyohi; OJIMA, Kento; MICHIBATA, Yukiko; HAMACHI, Itaru; KIYONAKA, Shigeki

2C5-47 Coordination Chemogenetics for Selective Inhibition of GPCR: Interference in Protein Structural Changes (Sch. Eng., Nagoya Univ.) ○MIURA, Yuta; OJIMA, Kento; MINO, Takeharu; HAMACHI, Itaru; KIYONAKA, Shigeki

Chair: TAMURA, Tomonori (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2C5-49, 2C5-51)

2C5-49^{#*} Development of Enzyme-Responsive Fluorescence Probes Bearing Carboxylate as Fluorescence-Enhancing Activator (Grad. Sch. Eng., Kyoto Univ.) ○OE, Masahiro; MIKI, Koji; OHE, Kouichi

2C5-51^{#*} Genetically encoded photocleavable module controls intercellular tension transfer (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Mizuki; OZAWA, Takeaki

Tuesday, March 24, PM

Chair: HORI, Yuichiro (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(3C5-23, 3C5-24, 3C5-25, 3C5-26, 3C5-27, 3C5-28)

3C5-23 Design, synthesis and evaluation of bivalent agents that recognized the PPI interface of cdc25B phosphatase (Fac. Agr., Shinshu Univ.; Grad. Sch. Pharm., Kyushu Univ.) ○NAGAOKA, Yosei; HIRAI, Go; OHKANDA, Junko

3C5-24 Design, synthesis, and evaluation of antiproliferative activity of 19-amide-containing fusicoccins (Fac. Agr., Shinshu Univ.) ○MASUDA, Ryoma; IGAUE, Shota; HIGUCHI, Yusuke; OHKANDA, Junko

3C5-25 One-pot encapsulation of various proteins within a synthetic cage (Grad. Sch. Eng., The Univ. of Tokyo) ○SUZUKI, Ryoto; FUJITA, Daishi; FUJITA, Makoto

3C5-26 Elucidation of metabolic pathways with chemical probes(1) Development of a quinone methide-releasing probe for detection of fatty acid β -oxidation in tissue (Grad. Sch. Pharm., Kyushu Univ.) ○INOUE, Kazuya; WEBER, Mark; NAGAURA, Tomoki; UCHINOMIYA, Shohei; OJIDA, Akio

3C5-27 Elucidation of metabolic pathways with chemical probes(2): Structural optimization and functional evaluation of quinone methide-releasing β -oxidation detection probe (Grad. Sch. Pharm., Kyushu Univ.) ○NAGAURA, Tomoki; INOUE, Kazuya; WEBER, Mark; UCHINOMIYA, Shohei; OJIDA, Akio

3C5-28 Elucidation of metabolic pathways with chemical probes (3) Development of fluorescence probe for detection of arginase in urea circle (Grad. Sch. Pharm., Kyushu Univ.) ○KAMODA, Koichiro; UCHINOMIYA, Shohei; OJIDA, Akio

Chair: OHKANDA, Junko (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(3C5-30, 3C5-32, 3C5-34, 3C5-35)

3C5-30^{#*} Development of nano-prodrugs composed of hinokitiol-modified anticancer drugs (IMRAM, Tohoku Univ.; NIT, Fukushima College) ○TANITA, Keita; KOSEKI, Yoshitaka; KAMISHIMA, Takaaki; SHIMIZU, Kazue; UMEZAWA, Hirohito; KASAI, Hitoshi

3C5-32^{#*} Amphiphilic Cationic Tricyclic Iridium(III) Complex-Peptide Hybrids Induce Paraptosis-like Cell Death of Cancer Cells via Intracellular Ca^{2+} -Dependent Pathway (Fac. Pharm. Sci., TUS) ○YOKOI, Kenta; BALACHANDRAN, Chandrasekar; MITRIĆ, Aleksandra; AOKI, Shin

3C5-34 Fabrication of antimicrobial nanoparticles using the reprecipitation method for the effective infection treatments (IMRAM, Tohoku Univ.) ○YAMAUCHI, Keitaro; TANITA, Keita; KOSEKI, Yoshitaka; KASAI, Hitoshi

3C5-35 Development of perfluorocarbon-encapsulated polymer nanoparticle for ^{19}F MRI contrast agents (Grad. Sch. Eng., Osaka Univ.) ○KONISHI, Yuki; SUGIHARA, Fuminori; MINOSHIMA, Masafumi; KIKUCHI, Kazuya

Chair: NAKAO, Yoichi (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(3C5-37, 3C5-39, 3C5-41)

3C5-37^{#*} A Super-photostable Fluorescent Marker for Lipid Droplets Based on a Fused Thiophene-S,S-dioxide Skeleton (Grad. Sch. Sci., Nagoya Univ.) ○KAJIWARA, Keiji; TAKI, Masayasu; YAMAGUCHI, Shigehiro

3C5-39^{#*} Identification of biomolecular fingerprints specific for thoracic aortic aneurysm by Raman microspectroscopy combined with multivariate data analysis (TARA, Univ. of Tsukuba) ○SUGIYAMA, Kaori; MARZI, Julia; BRAUCHLE, Eva; ANDO, Masahiro; YAMASHIRO, Yoshito; RAMKHELAWON, Bhamu; SCHENKE-LAYLAND, Katja; YANAGISAWA, Hiromi

3C5-41^{*} Raman probes for multicolor detection using an algal carotenoid. (RIES, Hokkaido Univ.) ○YONAMINE, Yusuke; MBA, Joshua; HOSHINO, Yu; MITOMO, Hideyuki; IJIRO, Kuniharu

Chair: HOSOKAWA, Masahito (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(3C5-44, 3C5-45, 3C5-46, 3C5-48, 3C5-49)

3C5-44 Detection of Mangromycin analogs by using Raman microspectroscopy (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MUKOJIMA, Ryo; ANDO, Masahiro; ASHOK, Samuel; NAKAJIMA, Takuji; TAKAHASHI, Yokio; MATSUMOTO, Atsuko; TAKEYAMA, Haruko

3C5-45 Development of photoswitchable fluorescent molecules using fulgimide (Grad. Sch. Eng., Osaka Univ.) ○TORII, Kenji; HORI, Yuichiro; KIKUCHI, Kazuya

3C5-46[#] Development of near-infrared fluorescent probes for imaging of intracellular magnesium ion and application to multi-color imaging (Keio Univ.) ○HIRUTA, Yuki; MURATA, Osamu; SHINDO, Yutaka; IKEDA, Yuma; IWASAWA, Naoko; CITTERIO, Daniel; OKA, Kotaro

3C5-48 Design, synthesis and photochemical properties of gene directed caged compounds (Fac. Sci., Toho Univ.) ○AOKI, Hanami; FURUTA, Toshiaki

3C5-49 Design, synthesis and photochemistry of gene directed caged anisomycins (Fac. Sci., Toho Univ.) ○SASAKI, Hirona; FURUTA, Toshiaki

Chair: IWASAKI, Arihiro (17 : 20~18 : 20)

* 17:10-17:20: interval for laptop PC connection.(3C5-51, 3C5-52, 3C5-53, 3C5-54, 3C5-55, 3C5-56)

3C5-51 Search for Anti-malarial Agents from Herbal Medicine Composed of Chaga and Pseudoginseng (Sch. Advanced Sci. Eng., Waseda Univ.; Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○NAKAGOMI, Yuki; KAWAGUCHI, Eri; ENDO, Takuro; FURUYA, Tetsuya; NAKAO, Yoichi

3C5-52 Search for anti-trypanosomal substances from the basket star *Astroboa arctos* (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKAHASHI, Rena; SUGANUMA, Keisuke; OKANISHI, Masanori; NAKAO, Yoichi

3C5-53 Development of novel biocompatible catalysts bearing Au complexes for therapeutic in vivo synthetic chemistry (Biofunc. Syn. Chem. Lab., RIKEN; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU) ○YAMAMOTO, Tomoya; CHANG, Tsungche; VONG, Kenward; TANAKA, Katsunori

3C5-54[#] Application of *N*-GlycoAlbumin-Au metalloenzyme for in vivo tumor treatment (Biofunc. Syn. Chem. Lab., RIKEN; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU; RIKEN BZP) ○NASIBULLIN, Igor; TANAKA, Katsunori

3C5-55[#] HSA-based metal carrier system for therapeutic in vivo synthetic chemistry (Biofunc. Syn. Chem. Lab., RIKEN; RIKEN BZP) ○AHMADI, Peni; EGAWA, Yasuko; TANAKA, Katsunori

3C5-56 Observation of amyloid beta encounter complex encapsulated within an $M_{12}L_{24}$ complex (The Univ. of Tokyo) ○NOMRUA, Takuya; SUZUKI, Ryoto; FUJITA, Daishi; YAGI, Maho; KATO, Koichi

Room D1

Lecture Hall Bldg. K306

Chemical Biology

Sunday, March 22, AM

Chair: PRADIPTA, Ambara Rachmat (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1D1-08, 1D1-09, 1D1-10, 1D1-11, 1D1-12, 1D1-13)

1D1-08 Development of coelenterazine analogues exhibiting long-wavelength emission (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○TAMAKI, Shota; KIYAMA, Masahiro; KITADA, Nobuo; MORIMITSU, Rei; KIM, Sung-bae; HIRANO, Takashi; MAKI, Shojiro

1D1-09 Photo-Activatable Alkyne Tag for analyzing intercellular molecular dynamics of cell (The Univ. of Tokyo) ○NAKAMURA, Sho; YAMAGUCHI, Satoshi; KOSAKA, Takahiro; OKAMOTO, Akimitsu

1D1-10 Development of Photoacoustic Agents Based on Enzyme-Responsive Naphthalocyanine for Tumor Detection (Grad. Sch. Eng., Kyoto Univ.) ○IMAIZUMI, Naoto; OE, Masahiro; NOGITA, Kohei; MIKI, Koji; OHE, Kouichi

1D1-11[#] Development of DNA nanostructure-based fluorescent sensors (Grad. Sch. Energy Sci., Kyoto Univ.) ○GERELBAATAR, Khongorzul; NAKATA, Eiji; ZHANG, Zhengxiao; HIROSE, Hisaaki; FUTAKI, Shiroh; MORII, Takashi

1D1-12 Intracellular oxygen concentration imaging by Pt-porphyrin modified mesoporous silica nanoparticles (Sch. Life Sci. Tech., Tokyo Tech.) ○YAMAUCHI, Arisa; ODAI, Shunsuke; ITO, Hidehiro; OKAMOTO, Masaki; KAMACHI, Toshiaki

1D1-13 The synthesis of fluorescent molecules with azide group and its biological behavior in living cells (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○KANDA, Mie; NISHIHARA, Tatsuya; TANABE, Kazuhito

Chair: USUKI, Toyonobu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1D1-15, 1D1-16, 1D1-17, 1D1-18, 1D1-19, 1D1-20)

1D1-15 Search for cytotoxic marine natural products against PANC-1 human pancreatic cancer cells (Sch. Advanced Sci. Eng., Waseda Univ.) ○YONETA, Haruhiko; TANAKA, Kentaro; KURIMURA, Kaho; NAKAO, Yoichi

1D1-16 Search for the bioactive substances from *Elettaria cardamomum* (Sch. Advanced Sci. Eng., Waseda Univ.) ○NISHIOKA, Takayuki; NAKAO, Yoichi

1D1-17 Synthesis and Biological Functions of bacterial cardiolipins (Fac. Sci. Tech., Keio Univ.) ○SUZUKI, Keisuke; OHTA, Ippei; ISHIBASHI, Shunichi; TAKAMATSU, Masayuki; FUKASE, Koichi; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari

1D1-18 Synthesis and Biological Functions of Cardiolipins Containing Oxidized Fatty Acids (Fac. Sci. Tech., Keio Univ.) ○NABAIKA, Etsuko; OHTA, Ippei; SUZUKI, Keisuke; INUKI, Shinsuke; MATSUMARU, Takanori; FUJIMOTO, Yukari

1D1-19 Biological activity of jasmonoyl isoleucine lactone and the affinity with COII-JAZ co-receptors (Grad. Sch. Life Sci., Tohoku Univ.) ○SAITO, Rina; YAMAGAMI, Sohei; OURA, Saki; ABE, Hiroshi; KAJI, Takuya; TAKAOKA, Yousuke; UEDA, Minoru

1D1-20 Development of cancer chemotherapy utilizing 6-aza-artemisinins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Cancer Chemotherapy Ctr., JFCR) ○TAKAHASHI, Norihito; MURAMATSU, Yukiko; SEIMIYA, Hiroyuki; OGURI, Hiroki

Sunday, March 22, PM

Chair: KIYONAKA, Shigeki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1D1-28, 1D1-29, 1D1-30, 1D1-31, 1D1-32)

1D1-28[#] Quantitative Mapping of Cellular Labile Zn^{2+} via Development of Hybrid Fluorescent Probes (IMRAM, Tohoku Univ.) ○LIU, Rong; KOWADA, Toshiyuki; WATANABE, Tomomi; MATSUI, Toshitaka; MIZUKAMI, Shin

1D1-29 Development of photoswitchable ligands for protein labeling system (IMRAM, Tohoku Univ.) ○MASHITA, Takato; KOWADA, Toshiyuki; SARKAR, Himadri Sekhar; TAKAHASHI, Hiroto; MATSUI, Toshitaka; MIZUKAMI, Shin

1D1-30[#] A photoactivatable proximity labeling method for characterizing the DNA-proximal proteome (Grad. Sch. Eng., Kyoto Univ.) ○TAKATO, Mikiko; SHIONO, Keiya; TAMURA, Tomonori; HAMACHI, Itaru

1D1-31[#] Lysine-targeting covalent modification of His-tag fused membrane proteins in live cells (Grad. Sch. Eng., Kyoto Univ.) ○THIMARADKA, Vikram; TAMURA, Tomonori; HAMACHI, Itaru

1D1-32^{*} Development of fluorogenic substrates selective for GSTP1 and its applications (Grad. Sch. of Life Sci., TUPLS) ○MASAYA, Mori; FUJIKAWA, Yuuta; HIDESHI, Inoue

Chair: NIWA, Takashi (14 : 50~15 : 40)

* 14:40-14:50: interval for laptop PC connection.(1D1-36, 1D1-37, 1D1-39, 1D1-40)

1D1-36 Generation of reactive species by ruthenium catalysis and application to protein modification (RIKEN CPR; RIKEN BZP; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU) ○MUGURUMA, Kyohei; TANAKA, Katsunori

1D1-37[#] Reactivity of acrolein released from cancer cells: Application for selective cancer therapy (Biofunc. Syn. Chem. Lab., RIKEN) ○PRADIPTA, Ambara Rachmat; AHMADI, Peni; FUJII, Motoko; TANAKA, Katsunori

1D1-38 Development of quantitative acrolein detection method by serine derivative luminescent probe (Grad. Sch. Sci., Osaka Univ.) ○NABETANI, Hinako; TSUCHIDA, Hiroya; SHIMOYAMA, Atsushi; FUKASE, Koichi

1D1-40 Cell-selective therapeutic strategy utilizing enzyme-glycocluster complex (RIKEN CPR; RIKEN BZP; RIKEN BDR; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU) ○NOMURA, Shogo; TAKAHASHI, Mihoko; SAKAMOTO, Kensaku; TANAKA, Katsunori

Monday, March 23, AM

Chair: KOWADA, Toshiyuki (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 Development of ratiometric fluorescent probes capable of measuring lysosomal pH (Grad. Sch. Pharm., The Univ. of Tokyo) ○MIZOGUCHI, Mai; HANAOKA, Kenjiro; KAGAMI, Yu; URANO, Yasuteru

2D1-09[#] Development of Acid- and β -Galactosidase-Responsive Photoluminescent Probe for Visualizing Specific Cancer Cells (Grad. Sch. Eng., Kyoto Univ.) ○HUO, Wenting; MIKI, Koji; TOKUNAGA, Disuke; MU, Huiying; OE, Masahiro; OHE, Kouichi

2D1-10[#] Development of GSH-activatable Fluorogenic Probe Based on BODIPY Scaffold (Grad. Sch. Eng., Kyoto Univ.) ○MU, Huiying; MIKI, Koji; OHE, Kouichi

2D1-11 A practical synthesis of ^{211}At -labeled antibody for α -emission cancer

therapy (Bio. Syn. Chem. Lab., RIKEN CPR; GlycoTargeting Res. Lab., RIKEN BZP) ○FUJIKI, Katsumasa; TANAKA, Katsunori

2D1-12[#] Quantification of neuronal AMPA-type glutamate receptor dynamics by combining ligand-directed chemistry and IEDDA click reaction (Grad. Sch. Eng., Kyoto Univ.; ERATO, JST) ○OJIMA, Kento; SHIRAIWA, Kazuki; HAMACHI, Itaru; KIYONAKA, Shigeki

Chair: SHIMOYAMA, Atsushi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2D1-15, 2D1-17, 2D1-19, 2D1-20)

2D1-15[#] Facile substitution reaction of guaiazulene-3-methanol derivatives with thiols and its application to labelling of thiol-containing biomolecules (IIS, The Univ. of Tokyo) ○JIN, Yu; AKAGAWA, Kengo; KUDO, Kazuaki

2D1-17[#] Design and synthesis of derivatives of Spliceostatin A and their biological evaluation toward prostate cancer treatment (Sch. Pharm., Osaka Univ.) ○YOSHIKAWA, Yusuke; ISHIBASHI, Airi; NIMURA, Keisuke; MURAI, Kenichi; KANEDA, Yasufumi; ARISAWA, Mitsuhiro

2D1-19 Development of a Ratiometric Fluorescent Zinc Ion Probe Based on Quinoline Chromophore (Fac. Sci. Eng., Doshisha Univ.) ○OHASHI, Mami; UEDA, Junpei; NOMURA, Akiko; KODERA, Masahito; HITOMI, Yutaka

2D1-20 Development of New Fluorescent Probes for the Detection of Reactive Oxygen Species (Fac. Sci. Eng., Doshisha Univ.) ○FUKUI, Yusuke; UEDA, Junpei; KODERA, Masahito; HITOMI, Yutaka

Monday, March 23, PM

Chair: TAKAOKA, Yosuke (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2D1-28, 2D1-30, 2D1-32, 2D1-33)

2D1-28[#] Cyclic anthraquinones as tetraplex DNA binder for cancer therapeutic application (Grad. Sch. Eng., KIT) ○ZOU, Tingting; FUKUDA, Hikaru; WAKAHARA, Daiki; SATO, Shinobu; TAKEUCHI, Hiroshi; TAKENAKA, Shigeori

2D1-30[#] Photoresponsive Cell Membrane Modifiers for Intracellular Drug Delivery (Grad. Sch. Eng., The Univ. of Tokyo) ○OTAKE, Saya; OKURO, Kou; AIDA, Takuzo

2D1-32 Indolizine-based photocaging system (RIKEN BDR; IBB, Tokyo Med. and Dental Univ.) ○WATANABE, Kenji; TERAO, Nodoka; NIWA, Takashi; HOSOYA, Takamitsu

2D1-33 Development of Isoform-selective Inhibitor against Serine Hydroxymethyltransferase (Fac. Eng., The Univ. of Tokyo) ○SHIRAKAWA, Masumi; OTA, Tomoki; SAITO, Yutarou; NONAKA, Hiroshi; SANDO, Shinsuke

Chair: MINOSHIMA, Masahumi (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 Hyperpolarization of biomolecules by dynamic nuclear polarization using photo-excited triplet electrons (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○HAMACHI, Tomoyuki; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiro

2D1-36 Enhancing nuclear spin polarization of water based on triplet-DNP (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○KAWASHIMA, Yusuke; NISHIMURA, Kouki; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiro

2D1-37 Phosphorylserine-Polymer Probe for Chemical Exchange Saturation Transfer(CEST)MRI:Effect of a Phosphoryl Group on the CEST Signal of the Probe (Grad. Sch. Eng., Kyoto Univ.) ○MURAKAMI, Tomohiro; YAMADA, Hisatsugu; IMAI, Hirohiko; AOYAMA, Yasuhiro; KIMURA, Yu; KONDO, Teruyuki

2D1-38 Synthesis of sulfonyl fluoride based on solid-phase extraction and application of radiofluorination (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TATSUTA, Maho; IZAWA, Akihiro; TANAKA, Hiroshi

2D1-39 Elucidation of side-products during 18F-Fluorination by nucleophilic substitution (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SONG, Ruichong; TAGO, Tetsuro; TOYOHARA, Jun; TANAKA, Hiroshi

2D1-40 Isotope-dilution LC-MS/MS analysis of desmosines in plasma (Sci. Tec., Sophia Univ.) ○MIKAGI, Ayame; IMURA, Akiho; TANIGAWA, Takahiro; ANZAWA, Riki; INOUE, Tomoo; NIIZUMA, Kuniyasu; TOMINAGA, Teiji; USUKI, Toyonobu

Chair: NONAKA, Hiroshi (15 : 50~16 : 20)

* 15:40-15:50: interval for laptop PC connection.(2D1-42, 2D1-43, 2D1-44)

2D1-42 Binding Mode Analysis of Ligands with Ligand-dissociation-type Pyrene Probes (Grad. Sch. Bioagr. Sci., Nagoya Univ.; Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ARAI, Atsushi; OBATA, Kohei; HATTORI, Atsunori; WATANABE, Rei; HU, Yaping; IIO, Keita; YONEDA, Kozo; KIGOSHI, Hideo; KITA, Masaki

2D1-43 Exploration of protein reactive groups for gold-nanoparticle based affinity labeling of carbohydrate binding proteins (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUTO, Nanako; SAKURAI, Kaori

2D1-44 Ligand-clickable gold nanoparticle probes for photoaffinity probes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) SAKURAI, Kaori; ○MORI, Kanna

Tuesday, March 24, PM

Chair: MURATA, Mihcio (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3D1-28)

3D1-28[#] CSJ Award for Creative Works Biofunctional Study and Therapeutic Application By Chemical Modification of Biomolecules (Sch. Mater. & Chem. Tech., Tokyo Tech.; RIKEN CPR) ○TANAKA, Katsunori

Chair: MATSUMARU, Takanori (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3D1-35, 3D1-36, 3D1-37, 3D1-38, 3D1-39, 3D1-40)

3D1-35 Galectin-regulated dynamics and the anti-tumor activity of glycosylated antibody (Grad. Sch. Sci., Osaka Univ.) ○YAMAMOTO, Ryuku; KABAYAMA, Kazuya; HATANNO, Kanae; MANABE, Yoshiyuki; FUKASE, Koichi

3D1-36 Functional analysis of the glycan on the cell membrane using synthetic glycan display system (Grad. Sch. Sci., Osaka Univ.) ○MIURA, Ayane; MIYAKE, Syuto; KABAYAMA, Kazuya; MANABE, Yoshiyuki; SYOMURA, Hiroki; SHIRAKAWA, Asuka; YAMAJI, Toshiyuki; SUZUKI, Kenichi; FUKASE, Koichi

3D1-37 Reactive antagonist approach for the subtype-specific regulation of plant hormone co-receptor COI1-JAZ (Grad. Sch. Sci., Tohoku Univ.) ○KOZAKI, Wataru; NUKAZUKA, Yuki; TAKAOKA, Yosuke; UEDA, Minoru

3D1-38 Development of a tool molecule for elucidating the pathological mechanism of host-selective toxin (Grad. Sch. Sci., Tohoku Univ.) ○KATO, Nobuki; KURATA, Yoshinori; ISHIMARU, Yasuhiro; UEDA, Minoru

3D1-39 Stereoselective synthesis of vitamin D lactone and identification of its target protein (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAKAMOTO, Ryota; NAGATA, Akiko; Sedghi Masoud, Shadi; TAKEMOTO, Yasusi; KITTAKA, Atsusi; UESUGI, Motonari; ODAGI, Minami; NAGASAWA, Kazuo

3D1-40 Elucidation study of apoptosis-inducing mechanism of jahanyne family, lipopeptides isolated from marine cyanobacteria. (Grad. Sch. Sci. Tech., Keio Univ.) ○HOSHINA, Shizuka; IWASAKI, Arihiro; KUDO, Takafumi; TASHIRO, Etsu; TERUYA, Toshiaki; IMOTO, Masaya; SUENAGA, Kiyotake

Chair: SUENAGA, Kiyotake (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3D1-42, 3D1-43, 3D1-44, 3D1-45, 3D1-46, 3D1-47)

3D1-42 Discovery of Small Molecules Targeting Flowering-related Protein Complexes (RIKEN CSRS; WPI-ITbM, Nagoya Univ.) ○NISHIYAMA, Kotaro; SATO, Ayato; HAGIHARA, Shinya

3D1-43 Screening for the bio-origin of okadaic acid by flow-cytometry (Kanagawa Univ.) ○ABE, Takahiro; NAITOU, Takayuki; UEMURA, Daitsuke

3D1-44[#] Search for Marine Natural Products Facilitating Astrocyte Differentiation (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TSE, Wai Lam; OTSUKA, Satoshi; NAKAO, Yoichi

3D1-45 Elucidation of the mechanism of anti-inflammation and adipogenesis inhibition functions of stylissatin A (Grad. Sch. Bioagr. Sci., Nagoya Univ.; School of Integrative and Global Majors, Univ. of Tsukuba; IRC3, AIST) ○ZHANG, Menghua; SUNABA, Taiki; SUN, Yiting; SHIBATA, Takahiro; SASAKI, Kazunori; ISODA, Hiroko; KIGOSHI, Hideo; KITA, Masaki

3D1-46 Functional analysis of endogenous ligands that synergistically regulate innate immune function of lipid A. (Grad. Sch. Sci., Osaka Univ.) ○ICHINOO, Takushi; SHIMOYAMA, Atsushi; CALDENTY, Joan; MIZOTE, Keisuke; FUKASE, Koichi

3D1-47 Development of lipid A modification method for the construction of self-adjuvanting vaccine (Grad. Sch. Sci., Osaka Univ.) ○YAMANAKA, Yusuke; SHIMOYAMA, Atsushi; FUKASE, Koichi

Chair: KAJI, Takuya (17 : 00~17 : 20)

* 16:50-17:00: interval for laptop PC connection.(3D1-49, 3D1-50)

3D1-49[#] Synthetic Study of Antibody-Recruiting Molecule toward Influenza for Novel Immunotherapy (Grad. Sch. Sci., Osaka Univ.) ○FARABI, Kindi; SIANTURI, Julinton; MANABE, Yoshiyuki; FUKASE, Koichi

3D1-50 Synthesis and Immunological Evaluation of Self-assembling CH401 Peptide as Novel Self-adjuvanting Breast Cancer Vaccine Candidate (Grad. Sch. Sci., Osaka Univ.) ○AIGA, Taku; MANABE, Yoshiyuki; ITO, Keita; KABAYAMA, Kazuya; OHSHIMA, Shino; KAMETANI, Yoshie; FURUKAWA, Hiroto; INABA, Hiroshi; MATSUURA, Kazunori; FUKASE, Koichi

Room D2

Lecture Hall Bldg. K307

Physical Chemistry -Chemical Kinetics and Dynamics-

Sunday, March 22, AM

Chair: ARAKAWA, Masashi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1D2-01, 1D2-02, 1D2-03, 1D2-04, 1D2-05, 1D2-06)

1D2-01 Adsorption forms of water on manganese oxide clusters revealed by infrared photodissociation spectroscopy (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ABE, Manami; KUDO, Satoshi; ZHANG, Yufei; YAMAGUCHI, Masato; MIYAJIMA, Ken; MAFUNE, Fumitaka

1D2-02 Adsorption structures of NO on gold anionic clusters determined by using IRMPD (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YAMAGUCHI, Masato; ZHANG, Yufei; LUSHCHIKOVA, Olga; BAKKER, Joost; MAFUNE, Fumitaka

1D2-03[#] Adsorption forms of NO on Rh₅Ir cationic cluster investigated by the Infrared Multi-Photon Dissociation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○ZHANG, Yufei; YAMAGUCHI, Masato; KUDO, Satoshi; LUSHCHIKOVA, Olga; BAKKER, Joost; MAFUNE, Fumitaka

1D2-04 Electron donation from Cu atoms to Al oxide clusters upon mixing revealed by thermal desorption spectrometry and DFT calculation (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KUDO, Satoshi; LIU, Xinan; ZHANG, Yufei; MAFUNE, Fumitaka

1D2-05 Reaction of nickel clusters and nitric oxide investigated by thermal desorption spectrometry in the gas phase (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○MIYAJIMA, Ken; MAFUNE, Fumitaka

1D2-06[#] Dynamic Crystallization Analysis of Sodium Chloride by Electron Microscopic Video Imaging (Fac. Sci., The Univ. of Tokyo) ○SAKAKIBARA, Masaya; NAKAMURO, Takayuki; HARANO, Koji; NAKAMURA, Eiichi

Chair: MIYAJIMA, Ken (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(1D2-08, 1D2-09, 1D2-10, 1D2-11, 1D2-12)

1D2-08 Precise synthesis of alloy clusters of iron and tin using dendrimer as a template (Lab. Chem. Life Sci., Tokyo Tech.) ○MURAMATSU, Hisanori; KAMBE, Tetsuya; TSUKAMOTO, Takamasa; HOSONO, Reina; IMAOKA, Takane; YAMAMOTO, Kimihisa

1D2-09 Structures of Dibenzo Crown Ether Complexes with Alkali Metal Ions Studied by Low Temperature Ion Mobility Mass Spectrometry (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., Hiroshima Univ.) ○TAINAKA, Souta; UJIHIRA, Tomoyuki; MURAMATSU, Satoru; INOKUCHI, Yoshiya; OHSHIMO, Keiji; MISAIZU, Fuminori

1D2-10 Chemical Characterization of Group 6 Metals Encapsulating Si₆ Cage Superatoms on Organic Surfaces (Fac. Sci. Tech., Keio Univ.) ○TERASAKI, Kazuya; KAMOSHIDA, Toshiaki; NIKURA, Toshiaki; SHIBUTA, Masahiro; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

1D2-11 Electronic properties of size-selected silver nanoclusters (Ag_n) soft-landed on an organic substrate (Fac. Sci. Tech., Keio Univ.) ○MIZOGUCHI, Kaito; INOUE, Tomoya; SHIBUTA, Masahiro; NAKAJIMA, Atsushi

1D2-12 Fabrication of transition-metal encapsulating Si₁₆ cage nanocluster thin films and their electrical conduction mechanisms (Fac. Sci. Tech., Keio Univ.) ○CHIBA, Tatsuya; YOKOYAMA, Takaho; HIRATA, Naoyuki; SHIBUTA, Masahiro; TSUNOYAMA, Hironori; NAKAJIMA, Atsushi

Chair: YASUMATSU, Hisato (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(1D2-14, 1D2-16, 1D2-18)

1D2-14[#] Novel Gold-Containing Nanoclusters Stabilized by *N*-Heterocyclic Carbene Ligands (WPI-ITbM, Nagoya Univ.) ○MAN, Renee; LUMMIS, Paul; SALORINNE, Kirsi; NAMBO, Masakazu; CRUDDEN, Cathleen

1D2-16[#] Synthesis and Catalytic Applications of *N*-Heterocyclic Carbene Functionalized Gold Nanoclusters (WPI-ITbM, Nagoya Univ.) ○OSTEN, Kimberly; NAROUZ, Mina; TAKANO, Shinjiro; TSUKUDA, Tatsuya; NAMBO, Masakazu; CRUDDEN, Cathleen

1D2-18[#] Size-Specific Aerobic Oxidation Catalysis of Atomically Precise Polymer-Stabilized Gold Clusters (Grad. Sch. Sci., The Univ. of Tokyo) ○HASEGAWA, Shingo; TAKANO, Shinjiro; TSUKUDA, Tatsuya

Sunday, March 22, PM

Chair: MISAIZU, Fuminori (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1D2-28, 1D2-30, 1D2-32)

1D2-28[#] OPiG-DC Voltage-Revolved Collisional Reactions of Bimolecular Ions (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○NONOSE, Shinji; KANAMORI, Satoko; KITAMURA, Saki; IYAMA, Takaaki; KADOTA,

Wataru; MORISHITA, Juri; YONEBAYASHI, Yuto

1D2-30[#] Development of Simultaneous and Hybrid Measurement System based on Ion Mobility Spectrometry and Measurement on Nanomaterials (Fac. Sci., Toho Univ.) ○SUGAI, Toshiki; UCHIYAMA, Fumiaki; OOISHI, Yuya; MIYAMOTO, Reona; SASAKI, Ryo; NAKAYASU, Takanori

1D2-32[#] Geometry control of Pt clusters supported on silicon substrate surface by cluster-impact deposition (Cluster Res. Lab., Toyota Tech. Inst.; East Tokyo Lab., Genesis Res. Inst., Inc.) FUKUI, Nobuyuki; ○YASUMATSU, Hisato

Chair: NAKAJIMA, Atsushi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1D2-35, 1D2-36, 1D2-37, 1D2-38, 1D2-39, 1D2-40)

1D2-35 Structures of yttrium oxide cluster cations studied by ion mobility mass spectrometry (Sch. Sci., Tohoku Univ.) ○MISAO, Yotaro; HOTTA, Riki; NAGATA, Toshiaki; NAKANO, Motoyoshi; MISAIZU, Fuminori

1D2-36 Structures of Manganese Oxide Cluster Cations Studied by Ion Mobility Mass Spectrometry (Grad. Sch. Sci., Tohoku Univ.) ○NAGATA, Toshiaki; NAKANO, Motoyoshi; MISAIZU, Fuminori

1D2-37 Stability and Structure Changes by Br⁻ Impurity Substitution in Salt Nanocrystals (Grad. Sch. Sci., Tohoku Univ.) HOTTA, Riki; NAGATA, Toshiaki; NAKANO, Motoyoshi; OHSHIMO, Keiji; MISAIZU, Fuminori

1D2-38 Study of Oxygen Molecule Adsorption Reaction on Copper and Silver Cluster Cations (Sch. Sci., Tohoku Univ.) ○ITO, Ryosuke; KADOGUCHI, Masayuki; HIRATA, Naoyuki; YAMAMOTO, Hiroaki; TONA, Masahide; TSUKAMOTO, Keizo; OHSHIMO, Keiji; MISAIZU, Fuminori

1D2-39 Optical absorption and dissociation processes of silver cluster cations, Ag_N⁺: size dependence up to N = 40 (Grad. Sch. Sci., Kyushu Univ.) ○KONO, Satoshi; ARAKAWA, Masashi; HORIO, Takuya; TERASAKI, Akira

1D2-40 Enhancement of detection efficiency in reflectron time-of-flight mass spectrometer by improving ion-beam convergence (Grad. Sch. Sci., Kyushu Univ.) ○HANDA, Takefumi; HORIO, Takuya; ARAKAWA, Masashi; TERASAKI, Akira

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

* 15:40-15:50: interval for laptop PC connection.(1D2-42, 1D2-43, 1D2-45, 1D2-46, 1D2-47)

1D2-42[#] Gas-phase photoelectron spectroscopy on thiolate-protected coinage metal clusters [Au_xAg_{44-x}(SR)₃₀]⁺: electron detachment energy from 1D superatomic orbital (Fac. Sci., The Univ. of Tokyo; Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○TASAKA, Yuriko; NAKAMURA, Katsunosuke; KOYASU, Kiichiro; TSUKUDA, Tatsuya

1D2-43[#] Development of precise transformation reactions of gold superatoms initiated by hydride doping (Grad. Sch. Sci., The Univ. of Tokyo; ESICB, Kyoto Univ.) ○TAKANO, Shinjiro; ITO, Shun; TSUKUDA, Tatsuya

1D2-45[#] Precise syntheses of hetero-bicosahedral gold clusters via inter-cluster reaction (Fac. Sci., The Univ. of Tokyo) ○ITO, Emi; TAKANO, Shinjiro; TSUKUDA, Tatsuya

1D2-46 Size-selected synthesis of gold alloy nanoclusters with an ultra-fine microfluidic reactor (Fac. Sci. Tech., Keio Univ.) ○TAKEMOTO, Hidenari; YAZU, Eriko; TANAKA, Katsutoshi; NAKAJIMA, Atsushi

1D2-47[#] Effects of stabilizing polymers on oxidation catalysis of gold clusters (Grad. Sch. Sci., The Univ. of Tokyo) ○MATSUO, Atsushi; HASEGAWA, Shingo; TAKANO, Shinjiro; TSUKUDA, Tatsuya

Chair: MURAMATSU, Satoru (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1D2-49, 1D2-51, 1D2-52, 1D2-53, 1D2-54)

1D2-49[#] Electronic structures of cobalt-doped silver cluster anions, Ag_xCo⁻, revisited: refined analysis of photoelectron spectra in light of chemical reactivity (Grad. Sch. Sci., Kyushu Univ.) ○MINAMIKAWA, Kento; ARAKAWA, Masashi; TONO, Kensuke; TERASAKI, Akira

1D2-51 Alloying effect of cluster catalysis in Hydrogen Evolution Reaction (Lab. Chem. Life Sci., Tokyo Tech.) ○SHIMIZU, Kana; KUZUME, Akiyoshi; IMAOKA, Takane; YAMAMOTO, Kimihisa

1D2-52 Atomcity dependence of Pt subnanoparticle electrocatalyst (Lab. Chem. Life Sci., Tokyo Tech.) ○YAMADA, Akari; AKANUMA, Yuki; KUZUME, Akiyoshi; IMAOKA, Takane; YAMAMOTO, Kimihisa

1D2-53[#] Time and Frequency-Resolved Imaging of Vibrational Motion of Water Molecules (Fac. Sci., The Univ. of Tokyo) ○KAGEYAMA, Hiroyuki; SZIDAROVSKY, Tamás; ANDO, Toshiaki; IWASAKI, Atsushi; ATTILA, Császár G.; YAMANOUCI, Kaoru

1D2-54 Ultraviolet photodissociation processes of O₂⁺-Ar complex ion studied by ion imaging technique (Grad. Sch. Sci., Tohoku Univ.) ○KOMINATO, Mizuhiro; ITO, Yuri; NAKASHIMA, Yuji; NAKANO, Motoyoshi; BIESKE, Evan; MISAIZU, Fuminori

Chair: OHSHIMO, Keiji (18 : 10~19 : 00)

* 18:00-18:10: interval for laptop PC connection.(1D2-56, 1D2-58, 1D2-59)

1D2-56[#] Temperature effect on the microscopic hydrogen-bond structures of the solvated phenol cations (Sch. Sci., Kitasato Univ.) ○ISHIKAWA, Haruki; ORITO, Masataka; OZEKI, Masayoshi; SUGITA, Kou;

KASAHARA, Yasutoshi

1D2-58 Creation of a wave packet between the Λ -type doublets by an intense nonresonant two-color picosecond laser pulse (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○NAKAMURA, Kenta; FUKAHORI, Shinichi; HASEGAWA, Hirokazu

1D2-59* Observing negative muon momentum released after muon intramolecular nuclear reaction (Grad. Sch. Sci., Tohoku Univ.) ○OKUTSU, Kenichi; MIYASHITA, Konan; YASUDA, Kazuhiro; YAMASHITA, Takuma; NATORI, Hiroaki; STRASSER, Patrick; NAGATANI, Yukinori; OKADA, Shinji; SATO, Motoyasu; MIYAKE, Yasuhiro; KINO, Yasushi

Monday, March 23, AM

Chair: KAZUMA, Emiko (9:00 ~ 10:00)

* 8:50-9:00: interval for laptop PC connection.(2D2-01, 2D2-02, 2D2-04, 2D2-05)

2D2-01 Phase transition of metastable perylene single crystal studied by birefringence micro-imaging technique (Grad. Sch. eng., Nihon Univ.; Fac. Edu., Shinshu Univ.) ○FUKUSHIMA, Misa; SATO, Kenta; ITO, Fuyuki; KATOH, Ryuzi

2D2-02* Inverted solvatochromism and excited state dynamics of TCNQ (Grad. Sch. of Eng., Muroran Inst. of Tech.) TAMAYA, Honami; TORII, Yuto; ISHIKAWA, Takumi; NAKANO, Hideyuki; ○HIMORI, Toshifumi

2D2-04 Study of the influences of H₂O₂ addition on the activities of anatase and rutile TiO₂ photocatalysts. (Dept. of Mater. Eng., NIT, Nagaoka College) NAKAMURA, Manatol; ASANO, Wataru; NOZAWA, Marumi; ○MURAKAMI, Yoshinori

2D2-05* Development of simple measurement system of femtosecond transient absorption spectra and its application for observation of perylene excimer formation in PMMA (Grad. Sch. Sci. Eng., Univ. of Toyama) NIINUMA, Tomohiro; IWAMURA, Munetaka; ○NOZAKI, Koichi

Chair: NOZAKI, Koichi (10:10 ~ 11:10)

* 10:00-10:10: interval for laptop PC connection.(2D2-08, 2D2-11, 2D2-12)

2D2-08# CSJ Award for Young Chemists Nanoscale analysis and control of chemical reactions induced by localized surface plasmon (RIKEN CPR) ○KAZUMA, Emiko

2D2-11 Femtosecond dynamics of two-photon ionization and electron capture processes of pyrene in solutions (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAWAKAMI, Tomomi; KOGA, Masafumi; SOTOME, Hikaru; MIYASAKA, Hiroshi

2D2-12* Study of binding energy and non-adiabatic transition of solvated electron by ultrafast photoemission spectroscopy of liquids and spectral retrieval method (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YAMAMOTO, Yo-ichi; NISHITANI, Junichi; KARASHIMA, Shutaro; SUZUKI, Toshinori

Chair: SAKOTA, Kenji (11:20 ~ 12:30)

* 11:10-11:20: interval for laptop PC connection.(2D2-15, 2D2-17, 2D2-19)

2D2-15# SDS-micelle-induced conformational change of α -Synuclein detected by using stopped-flow transient grating method (Dep. Chem., Sch. Sci., Kyoto Univ.) ○TAKARAMOTO, Shunki; NAKASONE, Yusuke; TERAZIMA, Masahide

2D2-17# FTIR study of visual and non-visual G protein-coupled receptors (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATAYAMA, Kota; SUZUKI, Kohei; SUNO, Ryoji; KANDORI, Hideki

2D2-19# Structural and physicochemical study on heliorhodopsin (ISSP, The Univ. of Tokyo) SHIHOYA, Wataru; ○INOUE, Keiichi; SINGH, Manish; KONNO, Masae; HOSOSHIMA, Shoko; YAMASHITA, Keitaro; IKEDA, Kento; HIGUCHI, Akimitsu; OKAZAKI, Sae; IZUME, Tamaki; HASHIMOTO, Masanori; MIZUTORI, Ritsu; TOMIDA, Sahoko; YAMAUCHI, Yumeka; YOSHIZUMI, Rei; KATAYAMA, Kota; TSUNODA, Satoshi; SHIBATA, Mikihiro; FURUTANI, Yuji; PUSHKAREV, Alina; BÉJA, Oded; UCHIHASHI, Takayuki; KANDORI, Hideki; NUREKI, Osamu

Monday, March 23, PM

Chair: KATOH, Ryuzi (13:30 ~ 14:30)

* 13:20-13:30: interval for laptop PC connection.(2D2-28, 2D2-29, 2D2-30, 2D2-31, 2D2-32, 2D2-33)

2D2-28 Photochemical properties of a thioiridine substituted by a phenylethynyl group (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○NONOSHITA, Daiki; TANABE, Shunsuke; KASHIHARA, Wataru; TANABE, Kazuhito; SUZUKI, Tadashi

2D2-29 Photochemical reaction of non-steroidal anti-inflammatory drug, ketoprofen with indoles (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KASHIHARA, Wataru; TADASHI, Suzuki

2D2-30# Evaluation for reactivity of photo-initiator-produced radicals to monomers by using flow-typed spin-trapping ESR method (KIT) ○MIYAKE, Yusuke; FAN, Xinyu; HATAKEYAMA, Hisashi; FUJITA, Naoki; FUJIMORI, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko

2D2-31 Photochemical reactions of aromatics with carbon tetrahalides (Kobe City Coll. Technol.) ○ADACHI, Leo; WATANABE, Akihiro

2D2-32 Reduction of aqueous europium ion by intense femtosecond laser pulses. (Grad. Sch. Sci., Osaka City Univ.) ○TAMEJIMA, Kazuya;

NAKASHIMA, Nobuaki; SAKOTA, Kenji; YATSUHASHI, Tomoyuki

2D2-33 Photochromic Reaction of Benzofuran-type Diarylethene Nanoparticles: Comparison between Open- and Closed-form Nanoparticles (Grad. Sch. Sci., Eng., Ehime Univ.) ○NAKAI, Shoki; SUGIMOTO, Yuya; ISHIBASHI, Yukihide; KITAGAWA, Daichi; KOBATAKE, Seiya; ASAH, Tsuyoshi

Chair: ASAH, Tsuyoshi (17:00 ~ 17:40)

* 16:50-17:00: interval for laptop PC connection.(2D2-49, 2D2-51)

2D2-49# Blinking Suppression in Lead Halide Perovskite Quantum Dots by Filling the Halide Vacancies (Grad. Sch. Env. Sci., Hokkaido Univ.) ○CHOUHAN, Lata; BIJU, Vasudevanpillai

2D2-51# Chemically- and Optically- Controlled Bandgap Modification of Lead Halide Perovskites (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MD, Shahjahan; YUYAMA, Ken-ichi; BIJU, Vasudevanpillai

Tuesday, March 24, AM

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

* 8:50-9:00: interval for laptop PC connection.(3D2-01, 3D2-02, 3D2-03, 3D2-05)

3D2-01 Modulation of proton permeability by molecular modification of graphene (Sch. Sci., Hokkaido Univ.) ○KOMAI, Takaha; FUKUSHIMA, Tomohiro; MURAKOSHI, Kei

3D2-02 Improvement of Isotope Selectivity of Hydrogen Evolution Reaction at Nano structured Metal Electrodes. (Sch. Sci., Hokkaido Univ.) ○HONMA, Mizuho; MINANIMOTO, Hiro; MURAKOSHI, Kei

3D2-03# Mechanistic Study on Efficient Plasmonic Water Oxidation Reactions (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○WANG, Yuchun; MINAMIMOTO, Hiro; SHI, Xu; UENO, Kosei; MISAWA, Hiroaki; MURAKOSHI, Kei

3D2-05# Reaction Mechanism of Isotopic Hydrogen Evolution Reaction at Nano-Structured Metal Electrodes (Grad. Sch. Sci., Hokkaido Univ.) ○MINANIMOTO, Hiro; OSAKA, Ryo; MURAKOSHI, Kei

Chair: KUZUME, Akiyoshi (10:10 ~ 11:10)

* 10:00-10:10: interval for laptop PC connection.(3D2-08, 3D2-10, 3D2-11, 3D2-12, 3D2-13)

3D2-08# Photo-modulated phase change of the proton conductive plastic crystal at electrode interface (Fac. Sci., Hokkaido Univ.) ○FUKUSHIMA, Tomohiro; SUZUKI, Shinya; MURAKOSHI, Kei

3D2-10 Proton conductivity dependent on the metal nanostructure (Sch. Sci., Hokkaido Univ.) ○SAI, Motohiro; FUKUSHIMA, Tomohiro; MURAKOSHI, Kei

3D2-11 Dinitrogen reduction reaction by the gas diffusion electrode carrying metal-modified covalent triazine frameworks (Sch. Eng. Sci., Osaka Univ.) ○OHASHI, Keitaro; SUGIMOTO, Rino; HARADA, Takashi; KAMIYA, Kazuhide; NAKANISHI, Shuji

3D2-12 O₂ adsorption process on pyridinic-N doped carbon model catalysts (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HIKITA, Yusuke; AKIMITSU, Takaho; TAKEYASU, Kotaro; KONDO, Takahiro; NAKAMURA, Junji

3D2-13 Finely controlled synthesis and functionalization of non-noble metal clusters (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○MORIAI, Tatsuya; TSUKAMOTO, Takamasa; KAMBE, Tetsuya; YAMAMOTO, Kimihisa; IMAOKA, Takane

Tuesday, March 24, PM

Chair: ISHIKAWA, Haruki (13:10 ~ 14:10)

* 13:00-13:10: interval for laptop PC connection.(3D2-26, 3D2-28, 3D2-30)

3D2-26# Single and double ionization of aligned NO in intense laser fields (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Sch. Sci., The Univ. of Tokyo) ○FUKAHORI, Shinichi; IWASAKI, Atsushi; YAMANOUCHI, Kaoru; HASEGAWA, Hirokazu

3D2-28# Penta-coordinated hypervalent carbon compounds in the gas-phase: photodissociation spectroscopy and ion mobility spectrometry (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Sci., Tohoku Univ.) ○MURAMATSU, Satoru; OHSHIMO, Keiji; KIDA, Motoki; SHI, Yuan; MISAIZU, Fuminori; YAMAMOTO, Yohsuke; INOKUCHI, Yoshiya

3D2-30* Long-Distance Proton Transfer in Protonated Benzocaine Induced by a single Ammonia Molecule (Grad. Sch. Sci., Tohoku Univ.) MIYAZAKI, Shun; HATTORI, Keigo; ○OHSHIMO, Keiji; MISAIZU, Fuminori

Chair: IWAKURA, Izumi (14:20 ~ 14:50)

* 14:10-14:20: interval for laptop PC connection.(3D2-33, 3D2-34)

3D2-33 excitation wavelength dependence of excited state intramolecular proton transfer reaction of 3-hydroxyflavone derivatives in ionic liquids (Grad. Sch. Eng., Doshisha Univ.) ○MIYABAYASHI, Hanamichi; FUJII, Kaori; WATANABE, Takumi; MATANO, Yoshihiro; ENDO, Takatsugu; KIMURA, Yoshifumi

3D2-34# Unique spectrum dynamics accompanied by the photo-dissociation reaction of aminodisulfide (Grad. Sch. Eng., Doshisha Univ.) ○FUJII, Kaori; NAKANO, Hiroshi; YAGI, Tomoaki; SATO, Hirofumi; ENDO, Takatsugu; KIMURA, Yoshifumi

Wednesday, March 25, AM

Chair: KAMINAGA, Akiko (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4D2-01, 4D2-02, 4D2-04, 4D2-06)
- 4D2-01** Kinetics of aluminum ion concerning with precipitation pattern formation. (Grad. Sch. Adv. Mathematics Sci., Meiji Univ.) ○FUJITA, Seina; SUEMATSU, Nobuhiko
- 4D2-02*** Chirality recognition by spontaneous electrical potential oscillation phenomena at oil-water interface (Fac. Sci. Tech., SIST) ○NANZAI, Ben; YOSHIKAWA, Syoya
- 4D2-04**** Formation of Self-Organized Periodic Precipitation Patterns in Multi-Layered Gel (Grad. Sch. Sci., Eng., Yamagata Univ.) ○ITATANI, Masaki; FANG, Qing; UNOURA, Kei; NABIKI, Hideki
- 4D2-06** Glycolytic oscillations in spheroids of cervical cancer HeLa cells (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) AMEMIYA, Takashi; SHIBATA, Kenichi; ○TAKAHASHI, Junpei

Chair: SUEMATSU, Nobuhiko (10 : 10 ~ 11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(4D2-08, 4D2-10, 4D2-11)
- 4D2-08*** Micro-scale thin crystals swimming with a fish-like fin at low Reynolds number (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OBARA, Kazuma; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu
- 4D2-10** Liesegang phenomena using magnesium phosphate (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KAMINAGA, Akiko
- 4D2-11*** Thermodynamics of a Sensitized Thermal Cell (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MATSUSHITA, Sachiko; INAGAWA, Yuri; SEKIYA, Hayato; IKEDA, Takumi; KOHATA, Haruki; ISOBE, Toshihiro; NAKAJIMA, Akira

Chair: KAGEYAMA, Yoshiyuki (11 : 10 ~ 12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(4D2-14, 4D2-16, 4D2-17)
- 4D2-14**** Effects of microwave on human beings; theoretical analysis of microwave heating in polar solvent enhancing chemical kinetics (Makoto Koike Microwave Research Institute; Micro Patent Office) ○KOIKE, Makoto
- 4D2-16** Electrical potential response of bifurcation between two oscillational states in Belousov-Zhabotinsky reaction occurring on microbeads (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○HORISAKA, Mari; KUZE, Masakazu; SUEMATSU J., Nobuhiko; AMEMIYA, Takashi; STEINBOCK, OLIVER; NAKATA, Satoshi
- 4D2-17*** Spatio-temporal patterns emerged by the coupling of two microbeads with different features of oscillations in the Belousov-Zhabotinsky reaction (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○KUZE, Masakazu; KITAHATA, Hiroyuki; STEINBOCK, OLIVER; NAKATA, Satoshi

Wednesday, March 25, PM

Chair: KATAYAMA, Tetsuro (13 : 10 ~ 14 : 00)

- * 13:00-13:10: interval for laptop PC connection.(4D2-26, 4D2-27, 4D2-29, 4D2-30)
- 4D2-26** Angular velocity dependence of self-inversion in a symmetric rotational propelled rotor (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○MATSUFUJI, Takeru; SATOSHI, Nakata; HIROYUKI, Kitahata; GORECKI, Jerzy
- 4D2-27**** Oscillatory motion of a camphor disk on a surfactant aqueous phase - From viewpoint of the driving force - (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○XU, Yu; NAKATA, Satoshi
- 4D2-29** Pulse response of a semiconductor gas sensor under cyclic temperature (Grad. Sch. Integrated Sci. for Life, Hiroshima Univ.) ○TAKAHARA, Naho; NAKATA, Satoshi
- 4D2-30** Effects of Alkali Metal Ions on H₂O₂ Reduction at Pt Electrodes (Grad. Sch. Sci. Eng., Tokyo Denki Univ.) ○OKADA, Haruki; MUKOUYAMA, Yoshiharu; OGAWA, Hideo

Chair: MISAWA, Hiroaki (14 : 10 ~ 15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(4D2-32, 4D2-34, 4D2-35, 4D2-36, 4D2-37)
- 4D2-32*** Femtosecond dynamics of Bi₂Se₃ nanoparticles fabricated by laser ablation (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○KATAYAMA, Tetsuro; OHSUMI, Yu; OHATA, Junjiro; KOINKAR, Pankaj M.; FURUBE, Akihiro
- 4D2-34** Excitation energy transfer and electron separation in the photoexcited porphyrin pentamer (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.; Grad. Sch. Sci. Technol., Shizuoka Univ.) ○HIRAKAWA, Kazutaka; NOMURA, Ryota; NISHIMURA, Yoshinobu; OKAZAKI, Shigetoshi; HAMADA, Morihiko; KOBORI, Yasuhiro
- 4D2-35** Exciton Dynamics of Porphyrin Derivatives Protected CsPbBr₃ Nanocrystals (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○NAKAYABU, Naoki; EGUCHI, Daichi; TAMAI, Naoto
- 4D2-36** Synthesis of CdSe/CdTe core/crown nanoplates and study of carrier transfer and recombination processes (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○NAGASAWA, Haruka; EGUCHI, Daichi; TAMAI, Naoto
- 4D2-37** Synthesis and excitation of CdSe / ZnS core-shell nanoplatelets (Sch.

Sci. Tech., Kwansai Gakuin Univ.) ○HIGASHI, Yuto; EGUCHI, Daichi; TAMAI, Naoto

Chair: HIRAKAWA, Kazutaka (15 : 20 ~ 16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(4D2-39, 4D2-41)
- 4D2-39**** Control of the Phonon Bottleneck in the Triphenylamine Derivatives-CdSe Nanocrystals Hybrid Systems (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○EGUCHI, Daichi; TAMAI, Naoto
- 4D2-41**** Effective Hot-Electron Transfer under Modal Strong Coupling Conditions (RIES, Hokkaido Univ.) ○SHI, Xu; HE, Guiying; OSHIKIRI, Tomoya; MISAWA, Hiroaki

Chair: EGUCHI, Daichi (16 : 10 ~ 16 : 40)

- * 16:00-16:10: interval for laptop PC connection.(4D2-44, 4D2-46)
- 4D2-44**** Number of Surface-Attached Acceptor Molecules on Quantum Dots Impacts Energy Transfer and Photon Upconversion Efficiencies (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ZHANG, Jie; SAKAMOTO, Masanori; KOUNO, Hironori; YANAI, Nobuhiro; KIMIZUKA, Nobuo; TERANISHI, Toshiharu
- 4D2-46*** Transient Optical Properties and Hot Carrier Dynamics of Modal Strong Coupling between Localized Surface Plasmon Resonance and Fabry-Pérot Nanocavity (RIES, Hokkaido Univ.) ○LIU, Yen-en; SHI, Xu; SUN, Qian; OSHIKIRI, Tomoya; MISAWA, Hiroaki

Room D3

Lecture Hall Bldg. K308

Physical Chemistry -Properties-

Sunday, March 22, AM

Solid Surface(Structure, Dynamics)

Chair: YAMAMOTO, Hiroshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1D3-01, 1D3-03, 1D3-05)
- 1D3-01**** Charge carrier dynamics in photo-devices observed by time-resolved pattern-illumination phase microscopy (Grad. Sch. Sci. Eng., Chuo Univ.) ○KATAYAMA, Kenji; EBIHARA, Makoto
- 1D3-03**** Carrier trapping / detrapping dynamics in electric double layer OFET caused by the anion-dependent structuring of the ionic-liquid monolayer (Grad. Sch. Eng. Sci., Osaka Univ.) ○DAIJIRO, Okaue; TANABE, Ichiro; SAKURAKO, Ono; KOTA, Sakamoto; TAIKI, Sato; AKIHITO, Imanishi; YOSHITADA, Morikawa; JUN, Takeya; KEN-ICHI, Fukui
- 1D3-05**** End shape engineering of silver nanowire for tip-enhanced Raman microscopy (RIES, Hokkaido Univ.) ○INOSE, Tomoko; TOYOUCHI, Syuichi; HARA, Shinnosuke; HIRAI, Kenji; FUJITA, Yasuhiko; TANAKA, Hirofumi; UJI-I, Hiroshi

Chair: OUCHI, Yukio (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1D3-08, 1D3-10, 1D3-12, 1D3-13)
- 1D3-08*** Ultrafast relaxation dynamics in organic thin film embedded in an optical microcavity (Dep. Chem., Sch. Sci., Kyoto Univ.) TAKAHASHI, Shota; ○WATANABE, Kazuya
- 1D3-10**** Dynamics of Pseudo Second-Order Phase Transition Behaviour in Polymer Melt Disclosed by Single Molecule Spectroscopy (Fac. Sci., Josai Univ.) ○ISHIKAWA, Mitsuru; TAKAHASHI, Taihei; UWADA, Takayuki
- 1D3-12** Single-molecule conductance of an acid/base-responsible molecule (Sch. Sci., Tokyo Tech.) ○YOSHIIHARA, Yuki; FUJI, Shintaro; NISHINO, Tomoaki; KIGUCHI, Manabu; HIGASHIBAYASHI, Shuhei
- 1D3-13** Ultrafast spectral diffusion dynamics in tetracene thin film (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YOSHIDA, Tatsuya; WATANABE, Kazuya

Ionic Liquids

Chair: NAITO, Toshio (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1D3-15, 1D3-16, 1D3-17, 1D3-18, 1D3-19)
- 1D3-15** Fabrication and Physical Properties of Two-dimensional Strong Isotropic Lattice consisted by Highly-correlated Radicals (Grad. Sch. Sci., Nagoya Univ.; MANA, NIMS) ○SUIZU, Rie; UCHIHASHI, Takashi; AWAGA, Kunio
- 1D3-16** Studies on electronic structure of ionic liquids by ultraviolet photoelectron spectroscopy (II) (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○INABA, Fumi; NOMOTO, Shiori; IWAHASHI, Takashi; KANAI, Kaname; OUCHI, Yukio
- 1D3-17** Solvated Electrons in Imidazolium-Based Ionic Liquid Bmim-Tf₂N Observed by time-resolved Near-IR Spectroscopy (Grad. Sch. Sci. and Technol., Gakushuin Univ.) ○SAKAE, Shuta; IWATA, Koichi
- 1D3-18** Elucidation of association-dissociation process of amphiphilic molecules in the mixed solvents showing the lower critical type liquid-liquid phase

separation (Grad. Sch. Sci., Osaka City Univ.) ○HARADA, Mio; YATSUHASHI, Tomoyuki; SAKOTA, Kenji

1D3-19[#] Electron hopping analysis of a redox-active ionic liquid by CV and ESR (Grad. Sch. Eng., Nagasaki Univ.) ○TAHARA, Hironobu; KITAGAWA, Akira; IKEDA, Tomoya; SAGARA, Takamasa

Sunday, March 22, PM

Liquid Phases

Chair: SAKOTA, Kenji (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1D3-28, 1D3-30, 1D3-31, 1D3-32)

1D3-28^{*} Microheterogeneity in Aqueous Acetonitrile Solution Probed by Soft X-ray Absorption Spectroscopy (PMS, IMS) ○NAGASAKA, Masanari; YUZAWA, Hayato; KOSUGI, Nobuhiro

1D3-30 Cluster Formations of Alcohols in the Cavities of Imidazolium-based Ionic Lipids (Dept. Appl. Chem., Nat. Def. Acad.) ○HATTORI, Shuji; MORI, Takahiro; KOSUGI, Satoru; KANEKO, Kazuyoshi; TAKEKIYO, Takahiro; SHIMIZU, Akio; YOSHIMURA, Yukihiro

1D3-31 Solvent Effect on Conformational Equilibrium of Chlorine-based Ionic Liquid (Dept. Appl. Chem., Nat. Def. Acad.) ○TAKEKIYO, Takahiro; KANEKO, Shota; YOSHIMURA, Yukihiro

1D3-32[#] Chirality and Ferroelectricity of Triglycine sulfate crystals with small molecules (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○TERASAWA, Yukana; ISHIKAWA, Kazuhiko; ICHIKI, Masaaki; SATO, Sota; LESLIE, Vogt; BART, Kahr; ASahi, Toru

Dielectrics

Chair: AKUTSU, Hiroki (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1D3-35, 1D3-36, 1D3-37, 1D3-38, 1D3-39, 1D3-40)

1D3-35[#] Ferroelectricity and Supramolecular Assembly of Chiral Alkylamide Substituted Benzene Derivative (Sch. Eng., Tohoku Univ.) ○WU, Jianyun; TAKEDA, Takeda; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

1D3-36 Molecular Assembly Structures and Physical Properties of Cation -Anion Salts of DABCO and Dianionic NDI Derivative (IMRAM, Tohoku Univ.) ○KAWASAKI, Ayumi; TAKEDA, Takashi; HOSHINO, Norihisa; MATSUDA, Wakana; SEKI, Shu; AKUTAGAWA, Tomoyuki

1D3-37 Structure and dielectric behavior of mixed-cation crystals by protonated hexamethylenetetramine and dabco (Fac. Sci., Yamaguchi Univ.) ○TSUNASHIMA, Ryo; MORITA, Hagino; AKUTAGAWA, Tomoyuki

1D3-38[#] Structure and Anhydrous Proton Conductivity of an Imidazolium Dihydrogen Phosphate Crystal (ISSP, The Univ. of Tokyo) ○DEKURA, Shun; SUNAIRI, Yoshiya; MORI, Hatsumi

1D3-39 Thermal conductivities of the hydrogen bonded ferroelectric crystals (IMRAM, Tohoku Univ.) ○HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

1D3-40 Preparation and Physical Properties of Hexadecahydrotribenzo[12]annulene with Octylcarbonylphenyl units. (Sch. Eng., Tohoku Univ.; IMRAM, Tohoku Univ.) ○KASAHARA, Yotaro; TAKEDA, Takashi; HOSHINO, Norihisa; HISAKI, Ichiro; AKUTAGAWA, Tomoyuki

Hydrogen Bonding

Chair: MATSUDA, Masaki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1D3-42, 1D3-43, 1D3-44, 1D3-45, 1D3-46)

1D3-42 Solid-State NMR Studies of *N*-C_nH_{2n+1} DABCO Br Salts (*n* = 8, 10, 12, 14, 16, 18) (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○SEKI, Takahiro; HONDA, Hisashi

1D3-43 Preparation and Physical Properties of Dialkylamide-substituted Oligo(ethyleneglycol) Derivatives (Sch. Eng., Tohoku Univ.; IMRAM, Tohoku Univ.) ○SETO, Shinya; TAKEDA, Takashi; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki

1D3-44 Molecular Orientation Control of Charge Transfer Complex Thin Films and Application to Photoelectric Conversion Cells (Grad. Sch. Sci., Nagoya Univ.) ○YOKOKURA, Seiya; SUIZU, Rie; MATSUSHITA, Michio; AWAGA, Kunio

1D3-45 Elemental Substitution effect on clathrate hydrates of tetrahedral heterocyclic compounds (Fac. Sci., Yamaguchi Univ.) ○FUJIKAWA, Naomii; TSUNASHIMA, Ryo

1D3-46^{*} Withdrawn

Molecular Assembly

Chair: NAKAMURA, Takayoshi (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1D3-49, 1D3-50, 1D3-51, 1D3-52, 1D3-53, 1D3-54)

1D3-49 Synthesis and dielectric property of Fe(II) grid type spin-crossover complex designed with intramolecular hydrogen bond (Fac. Sci., Yamaguchi Univ.) ○TANAKA, Chiaki; UEZU, Yuta; NISHIHARA, Sadafumi; INOUE, Katsuya; TSUNASHIMA, Ryo

1D3-50 Molecular sorption into porous honeycomb molecular crystal by CT

interaction (Grad. Sch. Sci., Nagoya Univ.) ○USHIROGUCHI, Ryo; SHUKU, Yoshiaki; SUIZU, Rie; AWAGA, Kunio

1D3-51 Synthesis and thermal properties of chiral ionic liquids containing sandwich-type Ru complexes (Grad. Sch. Sci., Kobe Univ.) ○YAMAZOE, Tomoaki; SUMITANI, Ryo; MOCHIDA, Tomoyuki

1D3-52 Control of Ionic Conductivity of Ionic Liquids Containing Sandwich-type Complexes by Light and Heat (Grad. Sch. Sci., Kobe Univ.) ○SUMITANI, Ryo; MOCHIDA, Tomoyuki

1D3-53 Synthesis and Properties of Photoreactive Ionic Liquid Gels Containing Sandwich-type Complexes (Grad. Sch. Sci., Kobe Univ.) ○SUMITANI, Ryo; MOCHIDA, Tomoyuki

1D3-54 Aggregate size and molecular arrangement dependences of singlet fission dynamics in pentacene ring-shaped aggregate models (Sch. Eng. Sci., Osaka Univ.) ○MIYAMOTO, Hajime; OKADA, Kenji; YOSHIDA, Wataru; TONAMI, Takayoshi; NAGAMI, Takanori; KUBO, Takashi; NAKANO, Masayoshi

Dynamics

Chair: AKUTAGAWA, Tomoyuki (18 : 10~18 : 50)

* 18:00-18:10: interval for laptop PC connection.(1D3-56, 1D3-57, 1D3-59)

1D3-56 Theoretical Study on Open-shell Characters and Nonlinear Optical Properties Induced by Singlet Fission for Butterfly-Shaped Acenes (Grad. Sch. Eng. Sci., Osaka Univ.) ○TONAMI, Takayoshi; NAGAMI, Takanori; OKADA, Kenji; YOSHIDA, Wataru; MIYAMOTO, Hajime; NAKANO, Masayoshi

1D3-57^{*} Spinodal line by molecular dynamics simulations in Lennard-Jones system (Fac. Bio., Hosei Univ.) ○KATAOKA, Yosuke

1D3-59 Ion Shape Dependences on Motional Modes in Mesophases of BE₃Me, BE₄ Salts Containing Isopropyl Groups (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○NAGAI, Katsumi; HONDA, Hisashi

Monday, March 23, AM

Conductors

Chair: KADOYA, Tomofumi (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D3-01, 2D3-02, 2D3-03, 2D3-04, 2D3-06)

2D3-01[#] Structures and physical properties of novel EDOT (3,4-ethylenedioxythiophene) dimer-based molecular crystals (ISSP, The Univ. of Tokyo) ○KAMEYAMA, Ryohei; DEKURA, Shun; FUJINO, Tomoko; MORI, Hatsumi

2D3-02 Structural and physical properties of molecular conductors based on a π -reduced TTP derivative substituted with methyl groups (Grad. Sch. Sci., Eng., Ehime Univ.) ○SUZUKI, Kento; KINOSHITA, Naoya; SHIRAHATA, Takashi; YAMADA, Junichi; MISAKI, Yohji

2D3-03 Synthesis, structure and physical properties of a single-component pure organic molecular conductor [H(etdc)] (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○NAKAJIMA, Ryota; ZHOU, Biao

2D3-04^{*} Preparation and Electromagnetic Properties of Helical Structures Composed of Charge Transfer Materials. (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TATEWAKI, Yoko; NISHIHARA, Sadafumi; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

2D3-06[#] Syntheses and Field-Effect Transistor Characteristics of Novel Nickel Dithiolenes Complexes (ISSP, The Univ. of Tokyo) ○ZHANG, Lei; FUJINO, Tomoko; YOKOMORI, So; ZHANG, Dongwei; DEKURA, Shun; MORI, Hatsumi

Chair: UEDA, Akira (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2D3-08, 2D3-09, 2D3-10, 2D3-11, 2D3-12, 2D3-13)

2D3-08 Synthesis and Physical properties of [Cu(TTF-Salphen)] radical salt (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○TAUCHI, Daiki; KANESAKA, Aoba; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki

2D3-09 Two-dimensional Mott insulator theta-(BEDT-BDT)PF₆ based on a non-TTF type electron donor (Grad. Sch. Mat. Sci., Univ. of Hyogo; IMR, Tohoku Univ.) ○KADOYA, Tomofumi; HIGASHINO, Toshiki; SUGIURA, Shiori; KUBO, Kazuya; SASAKI, Takahiko; TAKIMIYA, Kazuo; YAMADA, Jun-ichi

2D3-10 Structure and Properties of α -(BEDT-TTF)₂(PO-CON(CH₃)CH₂SO₃) (monoclinic form) (Grad. Sch. Sci., Osaka Univ.) ○AKUTSU, Hiroki; NAKAZAWA, Yasuhiro

2D3-11 Crystal Structure and Thermal Behaviour of [Ni(dmit)₂] Salts with Supramolecular Cations of Pyridinium Derivatives / Crown Ether (RIES, Hokkaido Univ.; Grad. Sch. Env. Sci., Hokkaido Univ.; IMRAM, Tohoku Univ.) ○TAKAHASHI, Kiyonori; DOI, Yuto; HOSHINO, Norihisa; HISAKI, Ichiro; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi

2D3-12 Size Effect of Crown Ether for Structure and Physical Property of Na⁺-(Crown Ether)-TCNQ Salts (Grad. Sch. Eng., Tohoku Univ.) ○SAMBE, Kohei; HOSHINO, Norihisa; TAKEDA, Takashi; NAKAMURA, Takayoshi; AKUTAGAWA, Tomoyuki

2D3-13 Control in the Semiconducting Property by H₂O Sorption of Alkali Metal Salts of Naphthalenediimide Dipropionate (Grad. Sch. Eng., Tohoku Univ.) ○ABE, Haruka; KAWASAKI, Ayumi; TAKEDA, Takashi;

HOSHINO, Norihisa; MATSUDA, Wakana; SEKI, Shu; AKUTAGAWA, Tomoyuki

Chair: NAKAMURA, Takayoshi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2D3-15)

2D3-15[#] CSJ Award for Creative Works Studies on Physical Properties of Dynamic Molecular Assemblies (IMRAM, Tohoku Univ.)
○AKUTAGAWA, Tomoyuki

Monday, March 23, PM

Chair: TAKAHASHI, Kazuyuki (13 : 40~14 : 30)

* 13:30-13:40: interval for laptop PC connection.(2D3-29, 2D3-30, 2D3-31, 2D3-32, 2D3-33)

2D3-29 Local structure and proton conductivity of imidazolium sebacate crystal (Grad. Sch. Frontier Sci. Initiative, Kanazawa Univ.) ○ANNEN, Masashi; SHIGETA, Yasuhiro; AMEMORI, Shogo; IDA, Tomonori; MIZUNO, Motohiro

2D3-30 Proton conductivity of phosphonic acid group-modified porous silica / imidazole composites (Grad. Sch. Frontier Sci. Initiative, Kanazawa Univ.)
○ARAI, Yuta; SHIGETA, Yasuhiro; AMEMORI, Shogo; IDA, Tomonori; MIZUNO, Motohiro

Magnetism

2D3-31[#] Crystalline polymorphism and reversible H₂O sorption behavior of [Ni(dmit)₂] salt with supramolecular cation unit with multiple hydrogen-bonding sites (Grad. Sch. Env. Sci., Hokkaido Univ.; RIES, Hokkaido Univ.) ○LI, Simin; TAKAHASHI, Kiyonori; HISAKI, Ichiro; NAKAMURA, Takayoshi

2D3-32 Theoretical study on Mn₃YO₄ cubane by broken-symmetry DFT-CASSCF methods (Sch. Sci., Osaka Univ.) ○SUZUKI, Yuta; KAWAKAMI, Takashi; MATSUMOTO, Yoko; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; NAKAJIMA, Takahito; YAMAGUCHI, Kizashi

2D3-33 Theoretical study on magnetic interaction in Mn-O₂-Mn structure by QMC-CASCI methods (RIKEN; Grad. Sch. Sci., Osaka Univ.)
○KAWAKAMI, Takashi; SUZUKI, Yuta; MITSUHASHI, Ryoma; MIYAGAWA, Koichi; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; NAKAJIMA, Takahito; YAMAGUCHI, Kizashi

Chair: TAKAHASHI, Kiyonori (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(2D3-48, 2D3-49, 2D3-50, 2D3-51, 2D3-52)

2D3-48 Synthesis, structures and physical properties of Mn(II) MOFs with (1 α , 3 α , 5 α)-1,3,5-cyclohexanetricarboxylic acid (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○TSUKAHARA, Naoki; ZHOU, Biao

2D3-49 Structural transition induced by spin crossover in a Fe(II) complex with an octahedral anion (Grad. Sch. Sci., Kobe Univ.) ○AZUMA, Ryosuke; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi

2D3-50 Linkage isomerism triggered by spin transition for an azobisphenolate Fe(III) complex (Grad. Sch. Sci., Kobe Univ.) ○MIYAWAKI, Atsuhiko; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi

2D3-51 Crystal structures and redox properties of transition metal complexes with azobisphenolate derivatives (Grad. Sch. Sci., Kobe Univ.)
○MIYAWAKI, Atsuhiko; TAKAHASHI, Kazuyuki; SAKURAI, Takahiro; OHTA, Hitoshi

2D3-52 Crystal structures and properties of metal complexes from metformin (Sch. Sci., Kobe Univ.) ○MIYAKE, Kosuke; TAKAHASHI, Kazuyuki; SUGAWARA, Kenji; OGAWA, Wataru

Wednesday, March 25, AM

Chair: NISHIKAWA, Hiroyuki (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4D3-01, 4D3-02, 4D3-04, 4D3-05, 4D3-06)

4D3-01 Single crystal growth and physical property evaluation of chiral magnetic material composed of formic acid and cobalt ions (Fac. Sci., Hiroshima Univ.; CresCent, Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.; IAMR, Hiroshima Univ.; PRESTO, JST) ○HIRONO, Keita; DMITRII, Smirnykh; ICHIRAKU, Yoji; NISHIHARA, Sadafumi; INOUE, Katsuya

Dielectric properties

4D3-02[#] The dielectric properties of polyoxometalates with ion fluctuation system (Grad. Sch. Sci., Hiroshima Univ.; Grad. Sch. Eng., Hiroshima Univ.; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○FUJIBAYASHI, Masaru; KATO, Chisato; MUH, NUR KHOIRU, Wihadi; SADAKANE, Masahiro; TATEWAKI, Yoko; TSUNASHIMA, Ryo; INOUE, Katsuya; NISHIHARA, Sadafumi

4D3-04 Solid state ion exchange for ammonium ion in Li₂[(18)crown-6]₃[Ni(dmit)₂](H₂O)₄ (Fac. Sci., Hiroshima Univ.; Grad. Sch. Sci., Hiroshima Univ.; CResCent, Hiroshima Univ.; IAMR, Hiroshima Univ.; IMRAM, Tohoku Univ.; RIES, Hokkaido Univ.; PRESTO, JST) ○ITO, Mizuki; ICHIHASHI, Katsuya; KONNO, Daisuke; INOUE, Katsuya; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; NISHIHARA,

Sadafumi

4D3-05 Structures and physical properties of [Ni(dmit)₂] salts containing supramolecular cations constructed with aryl ammonium ion or alkali metal ion and [24]crown-8. (Grad. Sch. Sci., Hiroshima Univ.; CResCent, Hiroshima Univ.; IAMR, Hiroshima Univ.; IMRAM, Tohoku Univ.; RIES, Hokkaido Univ.; PRESTO, JST) ○NISHIMURA, Takumi; ICHIHASHI, Katsuya; KONNO, Daisuke; INOUE, Katsuya; SHIMOYAMA, Daisuke; HAINO, Takeharu; AKUTAGAWA, Tomoyuki; NAKAMURA, Takayoshi; NISHIHARA, Sadafumi

4D3-06 Structural change depending on the kind of atmospheric gas in Cu(II)-CO₃²⁻ complexes (Grad. Sch. Sci., Hiroshima Univ.; CResCent, Hiroshima Univ.; IAMR, Hiroshima Univ.; PRESTO, JST; Dept. Mat. Sci. Eng., Nat. Def. Acad.; Grad. Sch. Sci., Osaka Pref. Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MANABE, Jun; NISHIDA, Kazuki; ZHANG, Xiao; NAKANO, Yuki; INOUE, Katsuya; SHIMONO, Seiya; ISHIBASHI, Hiroki; SHIGA, Misaki; KUBOTA, Yoshiki; TSUNASHIMA, Ryo; NISHIHARA, Sadafumi

Chair: NISHIHARA, Sadafumi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4D3-08, 4D3-09, 4D3-10, 4D3-11, 4D3-12, 4D3-13)

4D3-08 High pressure effect on synthetic membranes (Fac. Sci. Technol., Oita Univ.) ○SUZUKI, Ayako; ABE, Yudai; TAKAHASHI, Thoru; NOBUOKA, Kaoru; OHGA, Yasushi; ISHIKAWA, Yuichi

Optical properties

4D3-09 The Structure and Vapochromic Property of a Crystal of Novel Zn-dithiolen Complex (ISSP, The Univ. of Tokyo) ○YOKOMORI, So; DEKURA, Shun; FUJINO, Tomoko; OZAKI, Taisuke; MORI, Hatsumi

4D3-10[#] Elastic deformation and crystal structures of the halogenated anthracene single crystals (Grad. Sch. Eng., Tohoku Univ.) ○ZHAO, Yuxuan; HOSHINO, Norihisa; TAKEDA, Takashi; HAYASHI, Shotaro; AKUTAGAWA, Tomoyuki

4D3-11 Photoluminescence properties of porous organic salts composed of sulfonic acid biftuorene framework and various kinds of bulky amines (Grad. Sch. Eng., Osaka Univ.) ○TOMIMOTO, Atsunori; TSUCHIYA, Keiichi; TOHNAI, Norimitsu

4D3-12 Fabrication and photophysical properties of organic light emitting diode using aggregation-induced enhanced CPL(AIEEnh-CPL) materials (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KANESAKA, Aoba; HOSOYA, Tomomasa; ISAKA, Riyosuke; MIZOKURO, Toshiko; AZUMI, Reiko; YAMAGUCHI, Akira; IMAI, Yoshitane; NISHIKAWA, Hiroyuki

4D3-13[#] Supramolecular-induced chirality of 2-anthracenecarboxylate in Nano-silica template (IMRAM, Tohoku Univ.; CBMN, Univ. of Bordeaux) ○YOSPANYA, Wijak; ARAKI, Yasuyuki; NISHIJIMA, Masaki; POUGET, Emilie; ODA, Reiko; WADA, Takehiko

Chair: KAJI, Hironori (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4D3-15, 4D3-17, 4D3-18, 4D3-19)

4D3-15[#] Photocurrent and Electrically Detected Magnetic Resonance Study of Photo-Stable Pentacene derivatives (Grad. Sch. Sci., Osaka City Univ.)
○KATO, Ken; SHIMIZU, Akihiro; TEKI, Yoshio

4D3-17 Intermolecular mode of two-photon absorption of phenalenyl derivative by the 1D radical stacking (IFMRI, AIST) ○KONISHI, Tatsuki; KUBO, Takashi; KISHI, Ryohei; NAKANO, Masayoshi; KAMADA, Kenji

4D3-18 Theoretical study on non-Markov effect on singlet fission dynamics of pentacene dimer models (Grad. Sch. Eng. Sci., Osaka Univ.) ○YOSHIDA, Wataru; OKADA, Kenji; NAGAMI, Takanori; TONAMI, Takatoshi; MIYAMOTO, Hajime; NAKANO, Masayoshi

4D3-19[#] Theoretical study on the vibronic coupling in singlet fission for pentacene dimer models (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGAMI, Takanori; TONAMI, Takayoshi; OKADA, Kenji; YOSHIDA, Wataru; MIYAMOTO, Hajime; NAKANO, Masayoshi

Wednesday, March 25, PM

Chair: KISHI, Ryohei (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(4D3-28, 4D3-30, 4D3-31, 4D3-32)

4D3-28[#] Visual Understanding of Vibronic Couplings between Multiexcitonic States in Singlet Fission (ICR, Kyoto Univ.) ○SHIZU, Katsuyuki; ADACHI, Chihaya; KAJI, Hironori

4D3-30[#] Correlation between geometry of ligands and energy transfer mechanism of Eu(III) complex using antenna effect (Grad. Sch. Sci., Kyushu Univ.)
○MIYAZAKI, Shiori; SAKAMOTO, Haruna; MIYATA, Kiyoshi; SUZUE, Fumiya; KITAGAWA, Yuichi; HASEGAWA, Yasuchika; ONDA, Ken

4D3-31[#] Elucidation of excited state structural dynamics of thermally activated delayed fluorescence molecule with dual emission (Fac. Sci., Kyushu Univ.)
○RYU, Tomohiro; SHIMODA, Yuushi; SAIGO, Masaki; FUKUDA, Ryota; MIYATA, Kiyoshi; TSUCHIYA, Youichi; NAKANOTANI, Hajime; ADACHI, Chihaya; ONDA, Ken

4D3-32[#] Mechanisms of thermally activated delayed fluorescence controlled by

structural restriction (Fac. Sci., Kyushu Univ.) OMIYATA, Kiyoshi; SHIMODA, Yuushi; KONINTI, Raj Kumar; SAIGO, Masaki; TSUCHIYA, Youichi; NAKANOTANI, Hajime; ADACHI, Chihaya; ONDA, Ken

Chair: ONDA, Ken (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4D3-35, 4D3-36, 4D3-37, 4D3-38, 4D3-39, 4D3-40)
- 4D3-35** Preparation and micro-spectroscopic investigation of bicomponent molecular nanocrystals exhibiting photon-upconversion properties (Fac. Sci., Josai Univ.) OUWADA, Takayuki; KUBO, Noritaka; ISHIKAWA, Mitsuru; HASHIMOTO, Masashi
- 4D3-36** Synthesis of luminescent liquid material with thiocyanatocerium(III) ion (Grad. Sch. of Eng., Muroran Inst. of Tech.) OSUGAWA, Hiroto; IIMORI, Toshifumi
- 4D3-37[#]** Development of millimeter wave absorber based on Ga-Ti-Co multi-substituted epsilon iron oxide (Fac. Sci., The Univ. of Tokyo) OTAKEUCHI, Kyohei; NAMAI, Asuka; OHKOSHI, Shin-ichi
- 4D3-38** Plasmonic behavior in Au/Fe₃O₄/Au nanostructures (Sch. Mater. & Chem. Tech., Tokyo Tech.) OWATANABE, Rie; HARUMOTO, Takashi; SHI, Ji; OKAMOTO, Takayuki; ISOBE, Toshihiro; NAKAJIMA, Akira; MATSUSHITA, Sachiko
- 4D3-39** Atom-dynamics of Early-4d/5d-Transition Metal Clusters (Lab. Chem. Life Sci., Tokyo Tech.) OATQA, Augie; WAKIZAKA, Masanori; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 4D3-40** Observation of atom dynamics in alloy sub-nanoparticles (Lab. Chem. Life Sci., Tokyo Tech.) OHAMAMURA, Saki; ONISHI, Takaaki; IMAOKA, Takane; YAMAMOTO, Kimihisa

Cluster and Nanotube

Chair: TSUNASHIMA, Ryo (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4D3-42, 4D3-44, 4D3-46)
- 4D3-42[#]** Synthesis and characterization of one-dimensional Van der Waals wires inside carbon nanotubes (Fac. Sci., TMU) ONAKANISHI, Yusuke; KANDA, Nanoyuki; NAGATA, Masataka; LIU, Zheng; SUENAGA, Kazu; SHINOHARA, Hisanori
- 4D3-44*** Dynamical Symmetry in Clusters A₁₀ with Tetrahedral Symmetry (FIFC, Kyoto Univ.) OSATO, Tohru; HARUTA, Naoki
- 4D3-46** Phase transition from random to ordered structures of polymer-capped gold nanorods induced by an external electric field (Aichi Univ. of Educ.) OFUKAGAWA, Toshiaki; HINO, Kazuyuki; YAMAGUCHI, Yoshihiro; HATAKEYAMA, Yoshikiyo

Room D4

Lecture Hall Bldg. K309

Polymer

Sunday, March 22, AM

Chair: MASTUOKA, Shin-ichi (10 : 00~10 : 40)

- * 9:50-10:00: interval for laptop PC connection.(1D4-07, 1D4-08, 1D4-09, 1D4-10)
- 1D4-07** Reactivity Control of Acrylic Monomers for Organo-Catalyzed Photo-Induced Iodine-Transfer Controlled Radical Polymerization (Sch. Advanced Sci. Eng., Waseda Univ.) OARAKI, Go; HAYAKAWA, Masahiro; SUMIDA, Hiroyo; SUGA, Takeo; OYAIZU, Kenichi
- 1D4-08** Direct synthesis of alkoxyamines derived from α, β -unsaturated carbonyl compounds and their application as NMP initiators. (Grad. Sch. Eng., Tokyo City Univ.; Sch. Eng., Tokyo City Univ.; Grad. Sch. Mat. Sci., NAIST) OWATANABE, Genki; KYOKANE, Shuji; OKADA, Yuki; TAKAOKA, Rie; ANDO, Tsuyoshi; SHIOTSUKI, Masashi
- 1D4-09[#]** Co-syndiospecific Alternating Copolymerization of Functionalized Propylenes and Styrene by Rare-Earth Catalysts (RIKEN CSRS) OWANG, Haobing; YANG, Yang
- 1D4-10** Design of 2-Oxazoline-Based Bicyclic Sugar Monomers for Synthesizing Unnatural Oligoaminosaccharides (Grad. Sch. Eng., Osaka City Univ.) OKODA, Yuta

Chair: NISHIKAWA, Tsuyoshi (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(1D4-12, 1D4-13, 1D4-14, 1D4-15, 1D4-16)
- 1D4-12** Hetero Tetranuclear Complex Catalyzed Telomerization of Polycarbonate using Active Methylenes as Chain Transfer Agents (Grad. Sch. Eng. Sci., Osaka Univ.) OKAUTAGAWA, Shin-nosuke; NAGAE, Haruki; SCHINDLER, Tobias; OKUDA, Jun; MASHIMA, Kazushi
- 1D4-13** Oxygen permselectivity of copolymers from bis(hydroxymethyl) phenylacetylenes with another functional group and hydrophobic phenylacetylene. (Grad. Sch. Sci. and Technol., Niigata Univ.) OSHIMOTOMAI, Ibuki; HOSONO, Shintaro; KUWAHARA, Kaoru; TERAGUCHI,

Masahiro; KANEKO, Takashi; AOKI, Toshiaki

- 1D4-14** Effect of membrane preparation conditions on post-polymerization and oxygen permselectivity of rigid helical polyacetylene membranes (Grad. Sch. Sci. and Technol., Niigata Univ.) OSHOJI, Kazuki; KIMURA, Yuka; TERAGHI, Masahiro; KANEKO, Takashi; AOKI, Toshiaki
- 1D4-15** Counteranion effect of conjugated diene polymerization using chloro-bridge neodymium borohydride complexes (Grad. Sch. Eng., Hiroshima Univ.) OTANAKA, Ryo; NAKAYAMA, Yuushou; SHIONO, Takeshi
- 1D4-16*** Synthesis of new cyclic olefin polymers via ring-opening metathesis polymerization of norbornene lactones (Grad. Sch. Eng., Nagoya Inst. of Tech.) OMASTUOKA, Shin-ichi; MIYASAKO, Narumi; SUZUKI, Masato

Sunday, March 22, PM

Chair: TANAKA, Ryo (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1D4-34, 1D4-35, 1D4-36, 1D4-38)
- 1D4-34** Controlled Radical Polymerization of An Alkenyl Boronate for Molecular Transformation at the End of Growing Chain (Sch. Eng., Kyoto Univ.) OKANAZAWA, Tomoaki; NISHIKAWA, Tsuyoshi; OUCHI, Makoto
- 1D4-35** Radical Copolymerization of an Alkenyl Boronate for Syntheses of Novel Copolymers through Side Chain Replacement (Grad. Sch. Eng., Kyoto Univ.) OMAKINO, Hiroshi; NISHIKAWA, Tsuyoshi; OUCHI, Makoto
- 1D4-36[#]** Molecular Design of Vinyl Boronate Derivatives as Monomers for Radical Polymerization (Grad. Sch. Eng., Kyoto Univ.) ONISHIKAWA, Tsuyoshi; OUCHI, Makoto
- 1D4-38[#]** Synthesis of Helically π -Stacked Polymers via Cyclocopolymerization of Isocyanide and Allene (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Sci., Hiroshima Univ.) OKATAOKA, Yuki; KANBAYASHI, Naoya; FUJII, Naoka; OKAMURA, Taka-aki; HAINO, Takeharu; ONITSUKA, Kiyotaka

Chair: YAMAMOTO, Takeshi (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(1D4-41, 1D4-43, 1D4-44, 1D4-45)
- 1D4-41[#]** Facile Synthesis and Property of Supramolecular Graft Copolymer via the Complexation of Self-Assembled Capsule and Guest Polymer (Grad. Sch. Sci., Hiroshima Univ.) ONITTA, Natsumi; TAKATSUKA, Mei; KIHARA, Shin-ichi; HAINO, Takeharu
- 1D4-43** Organic reactions in hydrophobic polymer fields generated by the aminoacid derived optically active thermoresponsive polyacrylamides (Grad. Sch. Sci. Eng., Kindai Univ.) OMORIMOTO, Hiroki; MIYAKITA, Souki; ISHIFUNE, Manabu
- 1D4-44** Synthesis and fluorescence properties in water of optically active thermoresponsive polyacrylamides containing fluorescent groups (Grad. Sch. Sci. Eng., Kindai Univ.) OKITA, Manami; MIZOKAWA, Shunsuke; ISHIFUNE, Manabu
- 1D4-45** Synthesis of chiral thermoresponsive copolymers consisting of acryloyl-aminoalcohols and -aminoacids and their application for asymmetric recognition (Grad. Sch. Sci. Eng., Kindai Univ.) ONISHIYAMA, Naoko; UEDA, Haruka; ISHIFUNE, Manabu

Chair: KANBAYASHI, Naoya (16 : 40~17 : 30)

- * 16:30-16:40: interval for laptop PC connection.(1D4-47, 1D4-50, 1D4-51)
- 1D4-47** Young Scholar Lectures of CSJ Development of Chirality-Switchable Helical Polymer Catalysts (Grad. Sch. Eng., Kyoto Univ.) OYAMAMOTO, Takeshi
- 1D4-50** Screw-sense Induction to Poly(quininoxaline-2,3-diyl)s Bearing Carboxyl Acid Side Chains: Effect of the Structures of the Achiral Side Chains (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; OYAMAWAKI, Tomonori; KURODA, Takuma; SUGINOME, Michinori
- 1D4-51** Synthesis of Poly(quininoxaline-2,3-diyl)s with Polar Terminal Groups and Their Screw-sense Induction by the Addition of Chiral Additives (Grad. Sch. Eng., Kyoto Univ.) NAGATA, Yuuya; ONAKAGAWA, Takuya; SUGINOME, Michinori

Monday, March 23, AM

Chair: WAKIOKA, Masayuki (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(2D4-07, 2D4-08, 2D4-09, 2D4-10, 2D4-11, 2D4-12)
- 2D4-07** Synthesis of Poly(phenylene sulfide) Derivatives through Oxidative Polymerization and Application to High Refractive Index Materials (Sch. Advanced Sci. Eng., Waseda Univ.) OTAKAYAMA, Teru; WATANABE, Seigo; MATSUSHIMA, Kanta; OYAIZU, Kenichi
- 2D4-08** Increasing molecular weight of the polymer resulting from precision oxidative polymerization of 2-phenylphenol. (Fac. of Sci., Okayama Univ. of Sci.) ONAKANO, Akiyuki; TAMAKI, Hoshito; HIGASHIMURA, Hideyuki
- 2D4-09** Synthesis and Properties of Fluorine-Containing Aromatic Sulfur Compounds (Grad. Sch. Sci. Eng., Ibaraki Univ.) ONAKAZAKI, Shun; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio
- 2D4-10** Preparation of Preparation of π -Conjugated Copolymer Containing Chelating Bipyrimidine Unit and Its Response to Metal Ions (Grad. Sch. Sci. Eng., Ibaraki Univ.) OANDO, Junpei; FUKUMOTO, Hiroki; AGOU,

Tomohiro; KUBOTA, Toshio

- 2D4-11** Synthesis and Properties of π -Conjugated Donor-Acceptor Type Copolymers Containing Azaquinoxaline Units (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○ONOGI, Hiroaki; TSUCHIMOCCHI, Ryota; FUKUMOTO, Hiroki; AGOU, Tomohiro; KUBOTA, Toshio; KIKKAWA, Yoshihiro
- 2D4-12** Synthesis and photoelectronic properties of polymer containing bismuth-dithiocarbamate complex structure (Fac. Eng., Yamagata Univ.) ○USUI, Naoki; MATSUMURA, Yoshimasa; OCHIAI, Bungo

Chair: IMOTO, Hiroaki (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(2D4-14, 2D4-17, 2D4-18, 2D4-19)

- 2D4-14** Young Scholar Lectures of CSJ Cyclocopolymerization Based on Alternative Insertions of Isocyanide and Unsaturated Hydrocarbons into a Palladium-Carbon Bond (Grad. Sch. Sci., Osaka Univ.) ○KANBAYASHI, Naoya
- 2D4-17** Synthesis of π -Conjugated Polymers via Highly Selective Direct Arylation Polymerization: Effects of Homocoupling Defects on Photovoltaic Performance (ICR, Kyoto Univ.; Grad. Sch. Eng., Hiroshima Univ.) ○WAKIOKA, Masayuki; TORII, Naohiro; SAITO, Masahiko; OSAKA, Itaru; OZAWA, Fumiyouki
- 2D4-18** Synthesis of a polyazine having a fluorene derivative as a unit (Sch. Sci. Eng., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○MURAKAMI, Hiroki; KUWABARA, Junpei; KANBARA, Takaki
- 2D4-19** Synthesis and Application of Pd sub-nanoclusters using Oligophosphine Derivatives as a Protective Agent (Grad. Sch. Sci., Eng., Ehime Univ.) ○GODA, Hiroki; SUENAGA, Yuta; FUJINAGA, Hajime; KANBARA, Keisuke; OHTA, Hidetoshi; HAYASHI, Minoru

Monday, March 23, PM

Chair: KUWABARA, Junpei (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2D4-28, 2D4-29, 2D4-30, 2D4-31, 2D4-32, 2D4-33)

- 2D4-28** Pd-polymer hybrid nanoparticle for application to inkjet printing synthesized using polymer template having carboxylic acid. (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MATSUBARA, Daisuke; MATSUMURA, Yoshimasa; OCHIAI, Bungo
- 2D4-29** Synthesis and functional evaluation of temperature-responsive star polymers (Grad. Sch. Sci. & Tech., NAIST) ○YAMAGUCHI, Kazuki; MURASE, Nobuo; CHANTHASET, Nalinthip; ANDO, Tsuyoshi; AJIRO, Hiroharu
- 2D4-30** Synthesis and evaluation of π -conjugated polymers-silica particles (II) - Effect of monomer species - (Grad. Sch. of Sci. Technol., Sophia Univ.) ○HISAMATSU, Yuya; KOIZUMI, Kou; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro
- 2D4-31** Synthesis of necklace polymers having completely and incompletely condensed cage-silsesquioxanes (KIT) ○HAYASHI, Taihei; ISHIDA, Ayano; IMOTO, Hiroaki; NAKA, Kensuke
- 2D4-32** Synthesis of Zwitterion-Containing Polymeric Dormant and Preparation of Transparent Superhydrophilic Polymer Coatings (Sch. Advanced Sci. Eng., Waseda Univ.) ○NAKAMURA, Daichi; KOISHI, Satoshi; SUMIDA, Hiroyo; SUGA, Takeo; OYAIZU, Kenichi
- 2D4-33** Boron-Complexation of Conjugated Polymeric Ligand Synthesized through Polycondensation of Malondialdehyde Derivative and Aromatic Diamine (Grad. Sch. Eng., Kyoto Univ.) ○SAKAI, Yuki; ITO, Shunichiro; TANAKA, Kazuo

Chair: FUKUMOTO, Hiroki (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2D4-35, 2D4-37, 2D4-39)

- 2D4-35[#]** Bifacial π -conjugated polymers: A new design strategy leading to the extension of the effective conjugation length as well as the formation of higher-order structure (Lab. Chem. Life Sci., Tokyo Tech.; Grad. Sch. Eng., Osaka Univ.) ○ISHIWARI, Fumitaka; ABE, Daiki; YIN, Yalun; SAEKI, Akinori; FUKUSHIMA, Takanori
- 2D4-37[#]** Self-Assembly of a Platinum Complex with Phenylisoxazole Moieties Possessing TEG Chains (Grad. Sch. Sci., Hiroshima Univ.) ○HIRAO, Takehiro; TSUKAMOTO, Hidemi; IKEDA, Toshiaki; HAINO, Takeharu
- 2D4-39[#]** Toughening Polymer Networks via Freezing-Induced Radical Generation (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KATO, Sota; AOKI, Daisuke; OTSUKA, Hideyuki

Chair: ISHIWARI, Fumitaka (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2D4-42, 2D4-43, 2D4-44, 2D4-45, 2D4-46, 2D4-47)

- 2D4-42** Effect of Surface Functionality on Mechano-responsiveness of Mechanochromic Dendrimers (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○WATABE, Takuma; AOKI, Daisuke; OTSUKA, Hideyuki
- 2D4-43** Design of Radical-type Mechanochromic Polymers Based on Electrostatic Interaction (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KASORI, Ryosuke; WATABE, Takuma; AOKI, Daisuke; OTSUKA, Hideyuki
- 2D4-44** Templated synthesis of two-dimensional polymer networks using MOFs (Fac. Eng., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Frontier Sci., The Univ. of Tokyo; CREST, JST) ○HAYASHI, Yuki; HOSONO, Nobuhiko; UEMURA, Takashi

- 2D4-45** Structure of PMMA controlled by molecular recognition of calix[5]arene and fullerene (Fac. Sci., Hiroshima Univ.) ○FUKUTA, Kazushi; HIRAO, Takehiro; HAINO, Takeharu

- 2D4-46** Synthesis of mechanochromic macrocyclic compounds (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUGITA, Yuki; SESHIMO, Kouta; TAKASHIMA, Rikito; AOKI, Daisuke; OTSUKA, Hideyuki

- 2D4-47** Primary structure control by using cyclic monomer with dynamic nature (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YOKOCHI, Hirogi; TAKASHIMA, Rikito; AOKI, Daisuke; OTSUKA, Hideyuki

Tuesday, March 24, AM

Chair: AOKI, Daisuke (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3D4-07, 3D4-08, 3D4-09, 3D4-10, 3D4-11, 3D4-12)

- 3D4-07** DFT-XAS-Based Analysis of MAO-Activated Species in Bisimino Pyridine Iron Complex-Catalyzed Ethylene Oligomerization (ICR, Kyoto Univ.; IMS) ○TAKAYA, Hikaru; AIDA, Fuyuki; HONMA, Tetsuo; NAKAMURA, Masaharu

- 3D4-08** Pioneering new sub-nanoparticle synthesis methods using metallopeptides as templates. (Lab. Chem. Life Sci., Tokyo Tech.) ○NISHIYAMA, Kazuki; IMAOKA, Takane; YAMAMOTO, Kimihisa

- 3D4-09** Synthesis of mixed metal oxide clusters using silica-immobilized dendron as a template (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) ○ONIZUKA, Misato; ALBRECHT, Ken; IMAOKA, Takane; YAMAMOTO, Kimihisa

- 3D4-10** Automatic synthesis of alloy subnanoparticles for catalyst screening (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KIRAI, Keita; IMAOKA, Takane; YAMAMOTO, Kimihisa

- 3D4-11** Preparation of calcium carbonate composite nanoparticles with phytic acid. (KIT) ○LEE, Haekyung; IMOTO, Hiroaki; NAKA, Kensuke

- 3D4-12** The control of catalytic activity and selectivity of thermoresponsive polymer-supported organocatalyst by phase transition (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○MISHIMA, Kota; FUKAYA, Naoki; KOKADO, Kenta; SADA, Kazuki

Chair: KOKADO, Kenta (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(3D4-14, 3D4-15, 3D4-17, 3D4-18, 3D4-19)

- 3D4-14** Preparation of Transparent, Branched/Network Polyimide Film via Temporal CO₂ Protection of Aliphatic Triamine (Sch. Advanced Sci. Eng., Waseda Univ.) ○ZHANG, Jieyuan; IJIMA, Masakazu; SUGA, Takeo; OYAIZU, Kenichi

- 3D4-15[#]** Multiblock Copolymers for Recycling Polyolefin-Polyester Mixed Waste (Toray Industries, Inc.; UMTC) ○NOMURA, Keiichi; PENG, Xiayu; MILLER, Kevin; ELLISON, Christopher

- 3D4-17[#]** Enzymatic synthesis of α (1 \rightarrow 4)-6-deoxyglucan derivatives catalyzed by glucan phosphorylase (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○LEE, Le Hooi; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

- 3D4-18** Hydrogelation of Chitin Nanofibers by Reductive Amination (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○YAMAMOTO, Kazuya; OBAMA, Yu; WATANABE, Ryuta; KADOKAWA, Jun-ichi

- 3D4-19** Gel formation by grafting of poly(2-oxazoline)s to self-assembled chitin nanofibers (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○KITASONO, Seiya; YAMAMOTO, Kazuya; KADOKAWA, Jun-ichi

Tuesday, March 24, PM

Chair: SAWADA, Toshiaki (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3D4-28, 3D4-30, 3D4-32)

- 3D4-28[#]** Throughput Screening of Blood Vessel Chemical Probes for *In Vivo* Imaging (Grad. Sch. Eng., Osaka Univ.) ○MUHAMMAD ASRI, Abdul Sisak; LOUIS, Fiona; MATSUSAKI, Michiya; HANG, Young-tae

- 3D4-30[#]** Fabrication of artificial basement membranes for cell compartmentalization to construct complex 3D tissues (Grad. Sch. Eng., Osaka Univ.) ○ZENG, Jinfeng; MATSUSAKI, Michiya

- 3D4-32[#]** Design and Synthesis of pH-Responsive β -Hairpin Formable RGD Peptide and Its Selective Adhesion of Cancer Cells Based on High-order Structural Change (IMCE, Kyushu Univ.) ○NISHIMURA, Shinnosuke; NISHIDA, Kei; TANAKA, Masaru

Chair: TAKAYA, Hikaru (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3D4-35, 3D4-37, 3D4-39, 3D4-40)

- 3D4-35[#]** Membraneless polyester microdroplets as primordial compartments at the origins of life (ELSI, Tokyo Tech.) ○JIA, Tony Z; CHANDRU, Kuhan; HONGO, Yayoi; AFRIN, Rehana; USUI, Tomohiro; MYOJO, Kunihiro; CLEAVES, H. James

- 3D4-37[#]** Reversible Thermoresponsive Sol-Gel Transition of Collagen Nanofibers for Biomedical Application (Grad. Sch. Eng., Osaka Univ.) ○MATSUSAKI, Michiya; YUKAWA, Yuichi

- 3D4-39** Affinity-based loading of proteins fused with polymer-binding peptides into polymeric micelles (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MORO, Kenta; SAWADA, Toshiaki; SERIZAWA, Takeshi

- 3D4-40** Control and thermophysical characterization of assembled structures

composed of filamentous viruses (Sch. Mater. & Chem. Tech., Tokyo Tech.)
 ○MAKI, Naoto; UEDA, Naoki; SAWADA, Toshiki; MORIKAWA, Junko;
 SERIZAWA, Takeshi

Chair: MATSUSAKI, Michiya (15 : 50~16 : 30)

* 15:40-15:50: interval for laptop PC connection.(3D4-42, 3D4-43, 3D4-44, 3D4-45)

3D4-42 Synthesis and O₂-Binding Property of Polyoxazoline-Covered Hemoglobin. (Fac. Sci. Eng., Chuo Univ.) ○HIWATASHI, Yuki; MORITA, Yoshitsugu; KOMATSU, Teruyuki

3D4-43[#] Biodegradable cellulose based magnetic bio-nano composite for bone tissue engineering (Sch. Mat. Sci., JAIST) ○SONI, Saurabh; MISRA, Superb; MATSUMURA, Kazuaki

3D4-44 Artificial bone materials using flexible polyurethane and bioceramics (IV) -Mechanical properties of composites- (Sci. Tec., Sophia Univ.) ○KITA, Arisa; FUJITA, Masahiro; TAKEOKA, Yuko; RIKUKAWA, Masahiro

3D4-45 Development of a simple method for guanlylation of polyethyleneamines and investigation of their polyplex formation (Shiga University of Medical science) ○SANEYOSHI, Hisao; SOMA, Daiki; NAKAE, Yuki; TERASHIMA, Tomoya; KOJIMA, Hideto; FURUSHO, Yoshio

Room D5

Lecture Hall Bldg. K310

Colloid and Interface Chemistry

Sunday, March 22, AM

Molecular Assemblies

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

* 9:20-9:30: interval for laptop PC connection.(1D5-04, 1D5-05, 1D5-06, 1D5-08)

1D5-04 Synthesis and LCST behaviors of 6-monosubstituted β -cyclodextrin derivatives bearing a OEG chain (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SATO, Kazuki; ITO, Kazuaki

1D5-05 Synthesis and self-assembly behavior of anthracene derivatives bearing amphiphilic groups (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MURAYAMA, Ryota; ITO, Kazuaki

1D5-06^{}** Synthesis and Micellization Behaviors of Quercetin Polyglycoside (Fac. Eng., Toyama Pref. Univ.) ○NARGIS, Mahmuda; IHSAN, Abu Bin; KOYAMA, Yasuhiro

1D5-08^{}** Polymer Micelles with Reactive Zwitterionic Polymer Core (Fac. Chem. Materials and Bioeng., Kansai Univ.; Univ. Mass. Amherst) ○KAWAMURA, Akifumi; SANTA CHALARCA, Cristian F; EMRICK, Todd

Chair: ITOH, Yoshimitsu (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(1D5-11, 1D5-12, 1D5-13, 1D5-15, 1D5-16)

1D5-11 Introduction of Fullerenes into Hydrogels via Formation of Fullerene Nanoparticles (Grad. Sch. Eng., Hiroshima Univ.) ○SUGIKAWA, Kouta; INOUE, Yuya; KAWASAKI, Riku; IKEDA, Atsushi

1D5-12 Synthesis of fullerene nanoparticles including organic dyes by guest exchange reaction (Grad. Sch. Eng., Hiroshima Univ.) ○MASUDA, Kosuke; SUGIKAWA, Kouta; KAWASAKI, Riku; IKEDA, Atsushi

1D5-13* Polysaccharide-incorporated porphyrin derivatives as 'turn-on' fluorescence probes and photosensitizers in living cells (Grad. Sch. Eng., Hiroshima Univ.; FIRST, Konan Univ.; Grad. Sch. Eng., Osaka City Univ.) ○HINO, Shodai; SUGIKAWA, Kouta; KAWASAKI, Riku; KOUMOTO, Kazuya; SUZUKI, Toshio; NAGASAKI, Takeshi; IKEDA, Atsushi

1D5-15 Water-solubilization and photodynamic activity of chlorin derivatives using sugar solubilizers (Fac. Eng., Hiroshima Univ.) ○YAMANA, Keita; SUGIKAWA, Kouta; KAWASAKI, Riku; IKEDA, Atsushi

1D5-16 Correlation between the structure of monosaccharide derivatives and their physical gelation properties and mixing effect of different gelators. (GIC, Kyushu Univ.) ○ONO, Fumiyasu; FUKUDA, Mayu; WATANABE, Hisayuki

Sunday, March 22, PM

Chair: KOYAMA, Yasuhiro (12 : 50~13 : 50)

* 12:40-12:50: interval for laptop PC connection.(1D5-24, 1D5-26, 1D5-27, 1D5-28, 1D5-29)

1D5-24^{}** Supramolecular Polymerization in Liquid Crystalline Media (1): Chirality Transfer from Chiral Rod-Shaped Liquid Crystalline Molecule to Achiral Supramolecular Polymer (Grad. Sch. Eng., The Univ. of Tokyo) ○ZHANG, Xujie; YANO, Keiichi; ITOH, Yoshimitsu; AIDA, Takuzo

1D5-26[#] Supramolecular Polymerization in Liquid Crystalline Media (2):

Formation of Supramolecular Copolymer (Grad. Sch. Eng., The Univ. of Tokyo) ○MORISHITA, Daiki; ZHANG, Xujie; YANO, Keiichi; ITOH, Yoshimitsu; AIDA, Takuzo

1D5-27 Water-Solubilization of phthalocyanines with alkyl chains by using cyclodextrins (Fac. Eng., Hiroshima Univ.) ○GOTO, Yuya; RIKU, Kawasaki; KOUTA, Sugikawa; ATSUSHI, Ikeda

1D5-28 Improvement of photodynamic activity by adopting fullerene derivatives and light-harvesting molecule dyad systems (Grad. Sch. Eng., Hiroshima Univ.) ○ANTOKU, Daiki; KAWASAKI, Riku; SUGIKAWA, Kouta; IKEDA, Atsushi

1D5-29 Solvent Molecule-Inclusion Behavior of Highly Ordered Multilayered Assemblies of Tripodal Triptycenes with Internal Diacetylene-Containing Side Chains (Lab. Chem. Life Sci., Tokyo Tech.) ○TAKAHASHI, Kohei; SHOJI, Yoshiaki; ISHIWARI, Fumitaka; KAJITANI, Takashi; FUKUSHIMA, Takanori

Chair: IKEDA, Masato (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(1D5-31, 1D5-33, 1D5-35, 1D5-36)

1D5-31^{}** Spatially and Temporally Ordered Structure of Inorganic Nanosheets (RIKEN CEMS; MANA, NIMS; Grad. Sch. Eng., The Univ. of Tokyo) ○SANO, Koki; EBINA, Yasuo; SASAKI, Takayoshi; AIDA, Takuzo; ISHIDA, Yasuhiro

1D5-33^{}** Ultrafast Water Transport by Self-Assembled Fluorous Nanochannel (Grad. Sch. Eng., The Univ. of Tokyo) ○ITOH, Yoshimitsu; HIRAHARA, Ryota; KONDA, Takeshi; SATO, Kohei; AIDA, Takuzo

1D5-35[#] Development of Novel Self-Healable Polymer Glass with Robustness and Humidity-Resistance (Fac. Eng., The Univ. of Tokyo) ○FUJISAWA, Yuta; NAN, Yiling; YANAGISAWA, Yu; YANO, Keiichi; ITOH, Yoshimitsu; AIDA, Takuzo

1D5-36 Association behavior of pyrene and pyromellitimide derivatives in PDMS elastomer (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○FUKATA, Tomoya; AMEMORI, Shogo; SHIGETA, Yasuhiro; IDA, Tomonori; MIZUNO, Motohiro

Chair: KAWAMURA, Akifumi (15 : 10~16 : 10)

* 15:00-15:10: interval for laptop PC connection.(1D5-38, 1D5-39, 1D5-40, 1D5-42)

1D5-38 Synthesis of α -Glucosidase Microtube Motor Having Self-stirring Ability (Fac. Sci. Eng., Chuo Univ.) ○UMEBARA, Mizuki; SUGAI, Natsuhiko; MORITA, Yoshitsugu; KOMATSU, Teruyuki

1D5-39 Synthesis and Function of Protein Microtube Motor Covered with Poly(acrylic acid) (Fac. Sci. Eng., Chuo Univ.) ○NAITO, Keigo; SUGAI, Natsuhiko; MORITA, Yoshitsugu; KOMATSU, Teruyuki

1D5-40^{}** Construction and application of new multi-component supramolecular nanomaterials composed of supramolecular nanostructures of DNA and peptide derivatives (UGS Drug Discovery and Med. Info. Sci., Gifu Univ.; G-CHAIN; Grad. Sch. Eng., Tottori Univ.) ○HIGASHI, Sayuri; SHIBATA, Aya; KITAMURA, Yoshiaki; HIROSAWA, Koichiro; SUZUKI, Kenichi; MATSUURA, Kazunori; IKEDA, Masato

1D5-42^{}** Enzyme instructed molecular self-assembly in anticancer research (OIST) ○ZHANG, Shijin; ZHANG, Ye

Chair: KOMATSU, Teruyuki (16 : 20~17 : 20)

* 16:10-16:20: interval for laptop PC connection.(1D5-45, 1D5-46, 1D5-48, 1D5-49)

1D5-45 High-quality Nanosheets Composed of Phospholipid Bilayer Membrane 1 : Creation of Ultra huge phospholipid Bilayer Nanosheets Using Magnetic Orientation (RIKEN CEMS) ○YANAGI, Masayoshi; UCHIDA, Noriyuki; HAMADA, Hiroki; ISHIDA, Yasuhiro

1D5-46^{}** High-quality High-performance Nanosheet Composed of Phospholipid Bilayer Membrane (2): Dynamic Photonic Crystal with Sensitive Color Changes by Phase Transition of Nanosheets (RIKEN CEMS) ○UCHIDA, Noriyuki; KENNY LOW, Zhi Wei; ISHIDA, Yasuhiro

1D5-48 Reversible capture-redispersion of gold nanoparticles with surfactant assemblies supported on metal oxide (Fac. Sci., Ochanomizu Univ.) ○IJIMA, Saki; IMURA, Clara

1D5-49* Withdrawn

Monday, March 23, AM

Chair: KONDO, Yukishige (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2D5-01, 2D5-02, 2D5-03, 2D5-04, 2D5-05, 2D5-06)

2D5-01 Adsorption Behavior of Mixture of Anionic Surfactant and Glycerol Derivatives at Air/Water Interface (Fac. Sci., Nara Women's Univ.; Sakamoto Yakuhin Kogyo Co., Ltd.) ○ABE, Miki; OHATA, Tetsuya; YAMADA, Takeshi; YADA, Shiho; YOSHIMURA, Tomokazu

2D5-02 Interfacial Adsorption and Micelle Properties of Polyoxyethylene Type Double Chained Nonionic Surfactants (Fac. Sci., Nara Women's Univ.; Nippon Shokubai Co., Ltd.) ○NAKAGAWA, Mao; KAWAI, Risa; OKADA, Atsushi; INAOKA, Toru; YADA, Shiho; YOSHIMURA, Tomokazu

2D5-03 Solution Properties of Alkyl Ether Sulfate-type Surfactants Containing Homogeneous Polyoxyethylene Chain Length (Grad. Sch. Human Sci.,

Nara Women's Univ.) ○MORITA, Tsukasa; YADA, Shiho; YOSHIMURA, Tomokazu

- 2D5-04** Foam Properties of Amino Acid-Sugar Hybrid Surfactants (Fac. Sci., Nara Women's Univ.; Technoble Co., Ltd.) ○KOBAYASHI, Ayami; SAIKAWA, Kana; HADA, Yohsuke; SAWAKI, Shigetoyo; YADA, Shiho; YOSHIMURA, Tomokazu
- 2D5-05** Solubilization of Perfume of Polyoxyethylene-Polyoxypropylene Copolymer Decyl-tetradecyl Ether Type Nonionic Surfactant Micelle (Fac. Sci., Nara Women's Univ.; NOF CORPORATION) ○YADA, Shiho; TAKAHASHI, Yumi; MURAI, Masaki; SEKIGUCHI, Koji; YOSHIMURA, Tomokazu
- 2D5-06** Emission Enhancement of Amphiphilic trans-bis[5-(iminomethyl)pyrazolato]Pt(II) Complex in micellar media (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKEDA, Tsuyoshi; KAWAMORITA, Soichiro; NAOTA, Takeshi

Chair: YOSHIMURA, Tomokazu (10 : 10~11 : 00)

- * 10:00-10:10: interval for laptop PC connection.(2D5-08, 2D5-09, 2D5-10, 2D5-11, 2D5-12)
- 2D5-08** Electrochemical control of properties of ferrocene-modified gemini surfactant aqueous solution (Fac. Eng., TUS) ○HORIUCHI, Misaki; SAITO, Norio; KONDO, Yukisige
- 2D5-09** Association behavior and response to external stimuli of amphiphilic ferulic acid derivatives (Grad. Sch. Sys. Eng., Wakayama Univ.) ○MAEDA, Yuri; OSUGA, Hideji; SAKAMOTO, Hidefumi
- 2D5-10** Optimization of oxygen permselectivity of pure supramolecular polymer membranes obtained by highly selective photocyclic aromatization of cis-cisoidal polyphenylacetylenes (Grad. Sch. Sci. and Technol., Niigata Univ.) ○HOSONO, Shintaro; NARITA, Shunya; TERAGUCHI, Masahiro; KANEKO, Takashi; AOKI, Toshiki
- 2D5-11** Chirality control of nanocar molecule by supermolecular interaction at dynamic interface (Grad. Sch. Fac. Sci. Technol., TUS; MANA, NIMS) ○ISHII, Masaki; MORI, Taizo; NAKANISHI, Waka; SAKAI, Hideki; ARIGA, Katsuhiko
- 2D5-12[#]** Emergence of vesicle-like assemblies induced by production of triazole-type cationic lipids (Grad. Sch. Sci. Tech., Keio Univ.) ○LIAO, Yifei; ASAKURA, Kouichi; BANNO, Taisuke

Chair: YADA, Shiho (11 : 10~11 : 50)

- * 11:00-11:10: interval for laptop PC connection.(2D5-14, 2D5-15, 2D5-16, 2D5-17)
- 2D5-14** Substituent Effects of Optical Prooarties on Tetraphenylethene Compounds. (Coll. Sci. Eng., Kanazawa Univ.; Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SUGIMOTO, Yuki; KAKUTA, Takahiro; YAMAGISHI, Tada-aki; AKINE, Shigehisa
- 2D5-15** Synthesis of Recombinant Hemoglobin Nanofibers Connected with Bis(terpyridine)metal Complexes (Fac. Sci. Eng., Chuo Univ.) ○SAWAGUCHI, Remi; TAKAHASHI, Daiki; MORITA, Yoshitsugu; KOMATSU, Teruyuki
- 2D5-16** Self-Aggregation of Amphiphilic Zinc Chlorin Dyads Possessing a Cross-Linked PEG Chain in various solutions. (Fac. Sci. Tech., Ryukoku Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○ARAKAWA, Yuji; SASAKI, Fumika; TAMIAKI, Hitoshi; MIYATAKE, Tomohiro
- 2D5-17** Effect of reducing agent on the structure of double helical Au nanowires synthesized in hydrogels (Fac. Eng., TUS) ○KAWASAKI, Yukie; IMURA, Yoshirou; WANG, Ke-hsuan; KAWAI, Takeshi

Monday, March 23, PM

Chair: KONDO, Yukishige (14 : 30~15 : 10)

- * 14:20-14:30: interval for laptop PC connection.(2D5-34, 2D5-35, 2D5-36, 2D5-37)
- 2D5-34** Unusual Temperature Dependence of Colloidal Stability of Emulsifier-free Oleic acid-in-Water Emulsions (Fac. Eng., Shinshu Univ.; TOKYO FOOD CO.,LTD) ○KAWASAKI, Keita; TAKEI, Kazuo; SAKAI, Toshio
- 2D5-35** Fabrication of emulsions developing interference color at two temperature ranges (Fac. Eng., TUS) ○ARAI, Yuto; WANG, Ke-hsuan; IMURA, Yoshiro; KAWAI, Takeshi
- 2D5-36** Properties of Emulsion Stabilized by Acrylic Acid / Alkyl Acrylate Copolymer (Grad. Sch. Human. Sci., Nara Women's Univ.) ○MURAMATSU, Fumika; YADA, Shiho; YOSHIMURA, Tomokazu
- 2D5-37** Foaming Power and Stability of Foams Formed by Homogeneous Polyoxyethylene Type Nonionic Surfactant with Multi-Branched Chains (Fac. Sci., Nara Women's Univ.; Nissan Chemical Corp.) ○KURODA, Mizuho; OHNO, Masashi; KODA, Toshinari; YADA, Shiho; YOSHIMURA, Tomokazu

Organized Films

Chair: SAKAI, Toshio (15 : 20~16 : 20)

- * 15:10-15:20: interval for laptop PC connection.(2D5-39, 2D5-41, 2D5-42, 2D5-43, 2D5-44)
- 2D5-39*** Clarification of Magnetic Field Effect on the Molecular Recognition of Lipid Nanomembrane (Grad. Sch. Eng. Sci., Osaka Univ.) ○OKAMOTO, Yukihiko; KAWAKAMI, Ryo; OZAWA, Tomohiro;

SUWA, Masayori; SUGA, Keishi; UMAKOSHI, Hiroshi

- 2D5-41** Shape changes of lipid vesicles using supramolecular nanofibers of porphyrin derivatives (Grad. Sch. Eng., Hiroshima Univ.) ○OHNO, Masaki; SUGIKAWA, Kouta; KAWASAKI, Riku; IKEDA, Atushi
- 2D5-42** Single Molecule Observation of Amyloid β Peptide on Lipid Membrane under Non-equilibrium Fluidic Condition (Grad. Sch. Sci., Eng., Yamagata Univ.) ○IIDA, Akane; UNOURA, Kei; NABIKI, Hideki
- 2D5-43** Interaction Mechanisms of Giant Unilamellar Vesicles with Hydrophobic Solid Surfaces and Oil-Water Interfaces (MANA, NIMS) ○KATAOKA, Chiho; KAWAKAMI, Kohsaku
- 2D5-44** Effect of Polypropylene Glycol at Very Low Concentrations on Rheological Properties of Air-Water Interface in Aqueous Solution of Sodium Bis(2-ethylhexyl)sulfosuccinate (Fac. Sys. Eng., Wakayama Univ.; Kao Corp.) ○AONO, Keita; SUZUKI, Furitsu; YOMOGIDA, Yoshihiro; OKANO, Tetsuya; KADO, Shinpei; NAKAHARA, Yoshio; YAJIMA, Setsuko

Chair: NABIKI, Hideki (16 : 30~17 : 10)

- * 16:20-16:30: interval for laptop PC connection.(2D5-46, 2D5-47, 2D5-48, 2D5-49)
- 2D5-46** Detergency of Triglyceride Attached in/on Textile Enhanced with Oleyl alcohol: Effect of Surfactant (Fac. Eng., Shinshu Univ.; Kao Corp.) ○TSURUGA, Naoki; TAKEDA, Keisuke; KOTERA, Takanori; SAKAI, Toshio
- 2D5-47** Interfacial film between oil and water: Characterization of interfacial film stability (Fac. Eng., Shinshu Univ.; Kyowa Interface Science Co., Ltd.) ○HASEGAWA, Mitsuki; ISOGAI, Hiroyuki; HIRANO, Daisuke; SAKAI, Toshio
- 2D5-48** Surface structures of spin-coated films of acrylic ester copolymer blends (Utsunomiya Univ.) ○NAKAMURA, Hyuga; IIMURA, Ken-ichi; MORI, Fumiya
- 2D5-49** Layer Structure of Quaternary-Ammonium-Salt-Type Amphiphilic Gemini Ionic Liquids (Grad. Sch. Human. Sci., Nara Women's Univ.; Nissan Chemical Corp.) ○KAWAI, Risa; OHNO, Masashi; KODA, Toshinari; YADA, Shiho; YOSHIMURA, Tomokazu

Tuesday, March 24, AM

Chair: FUJIMORI, Atsuhiko (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3D5-01, 3D5-02, 3D5-03, 3D5-04, 3D5-05)
- 3D5-01** Evaluation of adsorption characteristics of AOT to fats and oils (Utsunomiya Univ.) ○SAITO, Maasa; IIMURA, Ken-ichi; OKAMURA, Satoru; AONO, Keita; SUZUKI, Furitsu
- 3D5-02** Submarine Emission of Double-Paddled Platinum Complexes Achieved by Molecular Manipulation at Air-Water Interface (Grad. Sch. Eng. Sci., Osaka Univ.; MANA, NIMS; Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○ADACHI, Junya; MORI, Taizo; INOUE, Ryo; KAWAMORITA, Soichiro; NAOTA, Takeshi; ARIGA, Katsuhiko
- 3D5-03** Synthesis and properties of new tripodal triptycenes derived from 1,8,13-triaminotriptycene as a key synthetic intermediate (Lab. Chem. Life Sci., Tokyo Tech.) ○KOYA, Tomoki; ISHIWARI, Fumitaka; SHOJI, Yoshiaki; KAJITANI, Takashi; FUKUSHIMA, Takanori
- 3D5-04** Preparation of self-assembled monolayer with anthracene oligomers (Grad. Sch. Mat. Sci., NAIST; Grad. Sch. Mat. Sci., NAIST) ○TSUNODA, Noburu; HAYASHI, Hironobu; YAMADA, Hiroko
- 3D5-05^{#*}** Visualization of defect patterns in Langmuir-Blodgett films by X-ray reflectivity imaging (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○ZHAO, Wenyang; SAKURAI, Kenji

Chair: IIMURA, Ken-ichi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3D5-08, 3D5-09, 3D5-10, 3D5-11, 3D5-12)
- 3D5-08** Formation of Supramolecular Assembly by Multiple Hydrogen Bonding of Polyguanamine Derivative Having Cyclic Parts and Its Metal Scavenging Ability (Grad. Sch. Sci., Eng., Saitama Univ.; Fac. Eng., Iwate Univ.) ○FUKUSHI, Keito; SHIBASAKI, Yuji; FUJIMORI, Atsuhiko
- 3D5-09** Effect of UV irradiation on AuNPs structure deposited on cationic insoluble monolayer at the air-water interface (Fac. Eng., TUS) ○MATSUKAWA, Mizuki; IMURA, Yoshirou; WANG, Ke-hsuan; KAWAI, Takeshi
- 3D5-10** Application of a Simple and Highly Efficient Nanoparticle Surface Modification to Single-Walled Carbon Nanotubes and Formation of an Interfacial Organized Film (Grad. Sch. Sci., Eng., Saitama Univ.; Fac. Eng., Saitama Univ.) ○ABIKO, Yoshinori; HAYASAKI, Takuto; ALMARASY, Ahmed A.; FUJIMORI, Atsuhiko
- 3D5-11** Preparation of Polymer-Based Nanocomposites Composed of Organo-Modified Carbon Nanotubes and Their Orientation Behavior by Uniaxial Dwaning (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○HAYASAKI, Takuto; ABIKO, Yoshinori; ALMARASY, Ahmed A.; FUJIMORI, Atsuhiko
- 3D5-12^{#*}** Creation of highly-oriented porous molecular nanosheets utilizing air/liquid interfaces and investigation of their optical properties (Grad. Sch. Eng., Osaka Pref. Univ.) ○OHATA, Takashi; MAKIURA, Rie

Chair: KAWAI, Takeshi (11 : 20~12 : 00)

* 11:10-11:20: interval for laptop PC connection.(3D5-15, 3D5-16, 3D5-17, 3D5-18)

3D5-15 Creation and Precise Structural Analysis of Soft and Hard Nanoparticle Alternating Multilayers for the Development of Theory for Long-Period Stacking Order (LPSO) Structure (Fac. Eng., Saitama Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○OHASHI, Takato; FUJIMORI, Atsuhiko**3D5-16** A study on experimental parameters in wet etching using vertically grown structures as protective mask (Utsunomiya Univ.) ○KATAGIRI, Misa; IIMURA, Ken-ichi**3D5-17** Systematic Analysis of Organized Molecular Films of Fluorinated Gemini-Type Diamide Derivatives Having Different Lengths with Thixotropic Induced-Ability to Solvents (Fac. Eng., Saitama Univ.; Kusumoto Chemicals, Ltd.; Fac. Sci., Ochanomizu Univ.; Grad. Sch. Sci., Eng., Saitama Univ.) ○MARUYAMA, Haruka; OKANO, Rei; SATOU, Eiichi; YAJIMA, Tomoko; FUJIMORI, Atsuhiko**3D5-18** Conformation Transition of Enzyme Molecules by Interfacial Adsorption As Gibbs MonoLayers (Grad. Sch. Sci., Eng., Saitama Univ.) ○KIMURA, Yusuke; FUJIMORI, Atsuhiko

Room E2

Lecture Hall Bldg. K402

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Sunday, March 22, AM

Theory, Informatics, and Computational Methods

Chair: KITAGAWA, Yasutaka (9 : 30 ~ 10 : 20)

* 9:20-9:30: interval for laptop PC connection.(1E2-04, 1E2-05, 1E2-06, 1E2-07)

1E2-04 Molecular Dynamics Simulation of Hepatitis B Virus Capsid Using Center of Mass Constraints (Grad. Sch. Sci., Kitasato Univ.) ○WATANABE, Hikaru; WATANABE, Go; IWADATE, Mitsuo; UMEYAMA, Hideaki; HAYAKAWA, Michiyu; MURAKAMI, Yoshiaki; YONEDA, Shigetaka**1E2-05** Development of Divide-and-Conquer Unitary Coupled Cluster Method using Variational Quantum Eigensolver (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKANASHI, Tomoya; YOSHIKAWA, Takeshi; NAKAI, Hiromi**1E2-06** Hartree Fock approximation in Skyrminion (Kaisei High Sch.) ○YAMAGISHI, Tomohito**1E2-07*** Orbital Phase Perspective of Goodenough-Kanamori-Anderson Rules (GKA Rules) in Superexchange Interaction (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.; Fac. Eng., Gifu Univ.) ○NARUSE, Yuji; TAKAMORI, Atsushi

Chair: SEINO, Junji (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(1E2-10, 1E2-11, 1E2-13)

1E2-10 Spin contamination errors in DFT/plane-wave calculations (RIECEN, AIST) ○TADA, Kohei; KAWAKAMI, Takashi; KITAGAWA, Yasutaka; OKUMURA, Mitsutaka; YAMAGUCHI, Kizashi; TANAKA, Shingo**1E2-11**** Study on the Electron Density Maps calculated from the Discrete Cosine Transform (The Institution of Professional Engineers, Japan) ○HIRAGUCHI, Hideo**1E2-13**** Informatics in Chemical Crystallography: Bayesian Inference from X-ray Diffraction Data (PRESTO, JST; RIKEN CEMS; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HOSHINO, Manabu; NAKANISHI-OHNO, Yoshinori; HASHIZUME, Daisuke

Chair: SATO, Hirofumi (11 : 30~12 : 30)

* 11:20-11:30: interval for laptop PC connection.(1E2-16, 1E2-18, 1E2-20)

1E2-16** Element-specific descriptors for stability of alloy nanoparticles (GREEN, NIMS) ○NANBA, Yusuke; KOYAMA, Michihisa**1E2-18**** Deep learning of graph-structured process and material information for accelerated exploration of electron/ion-conducting polymers (Sch. Advanced Sci. Eng., Waseda Univ.) ○HATAKEYAMA, Kan; UMEKI, Momoka; KIMURA, Satoshi; OYAIZU, Kenichi**1E2-20**** Development of the machine-learned correlation model: systematic assessment on chemical properties (WISE; Sch. Advanced Sci. Eng., Waseda Univ.; ESICB, Kyoto Univ.) ○IKABATA, Yasuhiro; SEINO, Junji; YOSHIKAWA, Takeshi; FUJISAWA, Ryo; NAKAI, Hiromi

Sunday, March 22, PM

Chair: NAKAI, Hiromi (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(1E2-29, 1E2-31, 1E2-33)

1E2-29** The development of anharmonic vibrational state theory using novel vibrational coordinate with backflow transformation (Grad. Sch. Nanobiosci.,

Yokohama City Univ.) ○ISHII, Kiriko; TACHIKAWA, Masanori; KITA, Yukiumi

1E2-31** Development of the New Method to Calculate Free Energy Reaction Network of High-Dimensional Metadynamics by Using Scaled Hypersphere Search Method (CCS, Univ. of Tsukuba) ○MITSUTA, Yuki; SHIGETA, Yasuteru**1E2-33*** A systematic exploration of minimum energy conical intersections using a semi-empirical Hamiltonian method: Toward a screening of fluorescent molecules (Fac. Sci., Hokkaido Univ.; WPI-ICReDD; PRESTO, JST; Max Planck Institute for Coal Research; NIMS) ○HARABUCHI, Yu; THIEL, Walter; MAEDA, Satoshi

Chair: TAKAHASHI, Satoshi (14 : 50~15 : 40)

* 14:40-14:50: interval for laptop PC connection.(1E2-36, 1E2-37, 1E2-38, 1E2-39, 1E2-40)

1E2-36 Searching structures of a glycine and peptides by applying the scaled hypersphere search method to discrete atoms (Grad. Sch. Sys. Eng., Wakayama Univ.) ○MIDORO, Yuuki; KODAYA, Yoshitomo; OKI, Takuto; MUKAI, Akira; YAMAKADO, Hideo; OHNO, Koichi

Chemical Reaction and Dynamics

1E2-37* Study on cyclization reaction of cyanate resin by quantum chemical reaction path searching method (Grad. Sch. Sci., Tohoku Univ.) ○KISHIMOTO, Naoki; XI, Yingxiao; ZHANG, Dapeng**1E2-38** Theoretical study on the metal cation effects on α -acid isomerization (Sch. Eng., Kyoto Univ.) ○KIMURA, Minami; HIGASHI, Masahiro; SATO, Hirofumi**1E2-39** Theoretical study on excited-state relaxation process of bacteriochlorophyll *a* (Sch. Eng., Kyoto Univ.) ○TAKABAYASHI, Yuji; HIGASHI, Masahiro; SATO, Hirofumi**1E2-40** Theoretical study on stereoselectivity in an organocatalytic asymmetric reaction (Sch. Eng., Kyoto Univ.) ○TSUJIMURA, Satoru; HIGASHI, Masahiro; SATO, Hirofumi

Chair: KISHIMOTO, Naoki (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1E2-42, 1E2-44, 1E2-46)

1E2-42* Intuitive pictures of dynamical reaction processes based on the static reaction path (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○TSUTSUMI, Takuro; ONO, Yuriko; ARAI, Zin; TAKETSUGU, Tetsuya**1E2-44*** Large scale molecular dynamics simulation of Tricresyl phosphate-Iron oxide interface by a hybrid quantum-classical method (Grad. Sch. Eng., Nagoya Inst. of Tech.; Idemitsu Kosan Co. Ltd.; ADMAT) ○UEMURA, Naoki; HARADA, Yosuke; OGATA, Shuji**1E2-46**** Numerical elucidation of factors affecting the self-assembly of Pd_nL_{2n} systems (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKAHASHI, Satoshi; SASAKI, Yuya; SATO, Hirofumi; HIRAOKA, Shuichi

Chair: SHIGETA, Yasuteru (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1E2-49, 1E2-51, 1E2-53)

1E2-49** Hierarchical Understanding of Water Splitting and H₂ Evolution Mechanisms by a Ruthenium(II) Pincer Complex (Grad. Sch. Eng., Kyoto Univ.) ○YOSHIDA, Yuichiro; YOKOI, Hayato; SATO, Hirofumi**1E2-51**** Theoretical Analysis of the Kinetic Isotope Effect on Carboxylation in RubisCO (Grad. Sch. of Sci. Technol., Sophia Univ.) ○JIANG, Tianlong; MORIWAKI, Kenta; KOBAYASHI, Osamu; ISHIMURA, Kazuya; DANIELACHE, Sebastian; NANBU, Shinkoh**1E2-53**** Computational chemical analysis of olefin polymerization reaction by (pyridylamido)Hf catalyst: The influence of counteranions on reaction rates (Grad. Sch. Info., Nagoya Univ.) ○MISAWA, Nana; SUZUKI, Yuichi; KOGA, Nobuaki; NAGAOKA, Masataka

Monday, March 23, AM

Structure and Fluctuation

Chair: HIGASHI, Masahiro (9 : 10 ~ 9 : 50)

* 9:00-9:10: interval for laptop PC connection.(2E2-02, 2E2-03, 2E2-04, 2E2-05)

2E2-02 Origins of strong Raman activity of low-frequency modes of prism carbons (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○YAMAGUCHI, Keigo; YAMAKITA, Yoshihiro; OHNO, Koichi**2E2-03** Theoretical Study of Olefin Polymerization Reaction by Phenoxy-Imine Catalyst (Grad. Sch. Info., Nagoya Univ.) ○MORIYA, Hirokazu; SOUMEN, Saha; TANAKA, Yuichi; KOGA, Nobuaki; NAGAOKA, Masataka**2E2-04** Diversity of allosteric T-R state transition of human hemoglobin: Application of Principal Component Analysis and MT method (Grad. Sch. Info., Nagoya Univ.) ○KITAMURA, Yukichi; SUZUKI, Kentaro; NAGAOKA, Masataka**2E2-05** Theoretical Study of The CRISPR-Cas9 Off-target Effect by Molecular Dynamics Simulations (Sch. Sci. Eng., Univ. of Tsukuba) ○OKUHARA, Chika; SU, Haibin; HARADA, Ryuhei; SHIGETA, Yasuteru

Property and Functionality

Chair: ISHIDA, Toyokazu (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(2E2-07, 2E2-09, 2E2-11, 2E2-12)
- 2E2-07*** Free energy analysis of adsorption of amino-acid analogs onto polymer/water interface (Grad. Sch. Eng. Sci., Osaka Univ.) ○YASOSHIMA, Nobuhiro; MATUBAYASI, Nobuyuki
- 2E2-09*** Molecular Modeling of Nano-Structured Ionic Liquid Crystal: Structural and Water Adsorption Properties (Grad. Sim. Studies, Univ. of Hyogo) ○ISHII, Yoshiki; WATANABE, Go; MATUBAYASI, Nobuyuki; KATO, Takashi; WASHIZU, Hitoshi
- 2E2-11** Molecular level analysis of PVA hydrogel through all-atom molecular dynamics simulation (Grad. Sch. Eng. Sci., Osaka Univ.) ○OSUMI, Risa; YAMADA, Kazuo; MATUBAYASI, Nobuyuki
- 2E2-12** Theoretical study on solvent dependence of optical properties of TCNQ (Grad. Sch. Eng., Kyoto Univ.) ○HIGA, Mikako; HIGASHI, Masahiro; SATO, Hirofumi

Chair: MATSUI, Toru (11 : 10~12 : 00)

- * 11:00-11:10: interval for laptop PC connection.(2E2-14, 2E2-15, 2E2-16, 2E2-17, 2E2-18)
- 2E2-14*** Theoretical study on the solvent dependency of excited-state intramolecular proton transfer in HBT (Sch. Eng., Kyoto Univ.) ○NAKA, Keiji; HIGASHI, Masahiro; SATO, Hirofumi
- 2E2-15** Theoretical Study on the Electronic Structure of Heavy Alkali Metal Suboxides (IMCE, Kyushu Univ.) ○HORI, Mikiya; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 2E2-16** Theoretical study on the electrical conduction in single-molecular parallel circuits (IMCE, Kyushu Univ.) ○OKAZAWA, Kazuki; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 2E2-17*** On the potential of achieving voltage increase in metal-ion batteries by *p* doping of different types of oxides: a theoretical perspective (Centre EMT, Institut National de la Recherche Scientifique) KOCH, Daniel; ○MANZHOS, Sergei
- 2E2-18** Theoretical study on relationships between structures, open-shell/aromatic natures and optical/magnetic properties of nonplanar conjugated macrocycles involving five-membered rings (Grad. Sch. Eng. Sci., Osaka Univ.) ○KISHI, Ryohei; YAMANE, Masaki; SUGIURA, Ryosuke; SHIMIZU, Yosuke; NAKANO, Masayoshi

Monday, March 23, PM

others

Chair: OKUMURA, Mitutaka (13 : 10~13 : 40)

- * 13:00-13:10: interval for laptop PC connection.(2E2-26)
- 2E2-26** Young Scholar Lectures of CSJ Theoretical Chemistry Toward a Comprehensive Understanding of Degeneracy and Pseudo-Degeneracy (FIFC, Kyoto Univ.) ○HARUTA, Naoki
- Chair: KISHI, Ryohei (13 : 50~14 : 40)
- * 13:40-13:50: interval for laptop PC connection.(2E2-30, 2E2-31, 2E2-33)
- 2E2-30** Theoretical analysis of the positron annihilation spectra for polyatomic molecules (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○DOHI, Kaito; TACHIKAWA, Masanori; KITA, Yukiumi
- 2E2-31*** Quantum Chemical Exploration of Isomers and Reaction Channels of Amino Acids Molecules (Grad. Sch. Sci., Tohoku Univ.) ○OHNO, Koichi; KISHIMOTO, Naoki; SATOH, Hiroko; IWAMOTO, Takeaki
- 2E2-33*** Computational Analysis for Catalytic Principle of Glycoside Hydrolyase (GH) (CD-FMat, AIST) ○ISHIDA, Toyokazu; PARKS, Jerry M.; SMITH, Jeremy C.

Room E3

Lecture Hall Bldg. K403

Organic Chemistry -Reaction and Synthesis-
Organic Electron Transfer Chemistry

Sunday, March 22, AM

Chair: YAMAMOTO, Takashi (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(1E3-07, 1E3-08, 1E3-09, 1E3-11)
- 1E3-07** Research of NIR Luciferin analogues for Akaluc (Sci. Eng., The Univ. of Electro-Communications) ○KAMIYA, Genta; KITADA, Nobuo; SAITO, Ryohei; IWANO, Satoshi; MIYAWAKI, Atushi; HIRANO, Takasi; MAKI, Syoziro
- 1E3-08** Synthesis of new photosensitizing dyes based on phenazine skeleton and their singlet oxygen generation properties (Grad. Sch. Eng., Hiroshima

Univ.) ○OHIRA, Kazuki; YU, Chih Hsin; IMATO, Keiichi; IMAE, Ichiro; OYAMA, Yousuke

- 1E3-09*** Development of mechanoredox reactions using ball milling and piezoelectric materials (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○KUBOTA, Koji; PANG, Yadong; MIURA, Akira; ITO, Hajime
- 1E3-11** Mechanoredox system for C-H trifluoromethylation reaction (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○PANG, Yadong; KUBOTA, Koji; ITO, Hajime

Chair: AMAYA, Toru (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(1E3-13, 1E3-14, 1E3-15, 1E3-16, 1E3-17)
- 1E3-13** Development of visible-light-induced generation of alkyl radicals using recyclable silicon reagents (Fac. Sci., Gakushuin Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ○MATSUI, Yu; OHNO, Misa; IKARASHI, Gun; MOROFUJI, Tatsuya; KANO, Naokazu
- 1E3-14** Photocatalytic C-H alkylation of heteroarenes with silicates as alkyl radical precursors (Grad. Sch. Sci., The Univ. of Tokyo) ○IKARASHI, Gun; MOROFUJI, Tatsuya; KANO, Naokazu
- 1E3-15** Radical reaction in water using organic photoredox catalysts encapsulated by V-shaped amphiphiles (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ○HYODO, Yuki; NOTO, Naoki; YOSHIZAWA, Michito; KOIKE, Takashi; AKITA, Munetaka
- 1E3-16** Generation of *o*-quinone methides via single electron oxidation by organophotoredox catalysis and its application to the synthesis of chromanes (Coll. Eng. Sci., Yokohama Natl. Univ.) HONDA, Kiyoshi; ○IWAI, Suguru; TANAKA, Kenta; HOSHINO, Yujiro
- 1E3-17** Development of visible light-driven B₁₂-titanium hybrid catalyst loading abundant base metals (Grad. Sch. Eng., Kyushu Univ.) ○SHICHIGO, Keita; ONO, Toshikazu; KOIDE, Taro; HISAEDA, Yoshiro; SHIMAKOSHI, Hisashi

Monday, March 23, AM

Chair: OKADA, Yohei (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(2E3-07, 2E3-08, 2E3-09, 2E3-10, 2E3-11)
- 2E3-07** Flow electrosynthesis of 2,3,6,7,10,11-hexahydroxytriphenylene (Grad. Sch. Eng., Yokohama Natl. Univ.) ○NAKAMURA, Yuto; TANAKA, Kenta; ATOBE, Mahito
- 2E3-08** A Flow Microreactor Approach for the Efficient Synthesis of α -Aminoacid by Electrochemical Carboxylation (Grad. Fac. Eng., Yokohama Natl. Univ.) ○TANAKA, Kenta; NAITO, Yuki; YANG, Qu; SENBOKU, Hirsanori; ATOBE, Mahito
- 2E3-09** Development of continuous acoustic emulsification method and its application to anodic substitution reaction of cyclic carbamates in a flow microreactor (Yokohama Natl. Univ.) ○MIKAMI, Rio; NAKAMURA, Yuto; TANAKA, Kenta; ATOBE, Mahito
- 2E3-10** Oxo-Thiolation of Cationically Polymerizable Alkenes using Anodically Generated Sulfur Cations (Grad. Sch. Eng., Kyoto Univ.; NIT, Suzuka College) ○ASHIKARI, Yosuke; SAITO, Kodai; NOKAMI, Toshiaki; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro
- 2E3-11** Second-Order Generation of Unstable Arylsulfonium Ions Using an Electrochemical Flow Reactor and Their Synthetic Applications. (Sch. Eng., Kyoto Univ.) ○SAKAUE, Hodaka; TAKUMI, Masahiro; YOSHIDA, Jun-ichi; NAGAKI, Aiichiro

Chair: SHIMIZU, Akihiro (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(2E3-13, 2E3-14, 2E3-15, 2E3-16, 2E3-17)
- 2E3-13** Development of flow bipolar electrolytic system for anodic fluorination of triphenylmethane (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAKAGAMI, Hiroki; MIYAMOTO, Kazuhiro; SHIDA, Naoki; GOTOU, Akihiro; ISOGAI, Tomohiro; YAMAUCHI, Akiyoshi; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 2E3-14** Selective Reduction of Enones Using a Proton Exchange Membrane Reactor (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○INOUE, Haruka; MITSUDO, Koichi; SUGA, Seiji
- 2E3-15** Electrochemical Hydrogenation of Diphenylacetylene Using a PEM Reactor and In-line IR Analysis (Grad. Sch. Eng., Kyoto Univ.) ○TAKAHASHI, Yusuke; SHITE, Ibuki; TSUCHIHASHI, Yuta; TONOMURA, Osamu; NAGAKI, Aiichiro
- 2E3-16** Formation of Bicyclic Molecules Terminated by Halide Ion Using Prins Cyclization (Fac. Sci. Eng., Kindai Univ.) ○MATSUMOTO, Kouichi; OHTSUKA, Keisuke; YASUDA, Eri; KURIYAMA, Kaho; NOKAMI, Toshiaki; NISHIWAKI, Keiji; KASHIMURA, Shigenori
- 2E3-17** Development of organic secondary battery using quinone-based organic salt-type negative electrode active material (Grad. Sch. Eng., Tottori Univ.) ○MATSUMOTO, Ryo; KOMURA, Takuro; NOKAMI, Toshiaki; ITOH, Toshiyuki

Monday, March 23, PM

Chair: NOKAMI, Toshiki (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(2E3-28, 2E3-29, 2E3-30, 2E3-32)
- 2E3-28** Synthesis and Properties of Phenazinium-Based Zwitterions (Grad. Sch. Eng. Sci., Osaka Univ.) ○OCHI, Yuta; SHIMIZU, Akihiro; SHINTANI, Ryo
- 2E3-29** Synthesis and Properties of an Anthracene-Based Zwitterion (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAYAMA, Ayane; SHIMIZU, Akihiro; SHINTANI, Ryo
- 2E3-30[#]** Highly efficient anodic halogenation of π -conjugated polymer films by using Lewis acid additives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KURIOKA, Tomoyuki; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
- 2E3-32** Coordination behavior of solvents and anions in anodic oxidation of thiophenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○MAEKAWA, Takuma; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke

Chair: MITSUDO, Koichi (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2E3-34, 2E3-35, 2E3-36, 2E3-37, 2E3-38)
- 2E3-34** Ether synthesis via electrochemical reductive coupling (Fac. Eng., Tottori Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○KAIZAWA, Hazuki; NOKAMI, Toshiki; TAKEUCHI, Kentaro; TERANISHI, Saya; SHIMOHARAI, Yusuke; HIRATA, Goki; NISHIKATA, Takashi
- 2E3-35** Regioselective Electrochemical Hydrocarboxylation of Phenyl-substituted Alkenes (Sch. Eng., Hokkaido Univ.; Fac. Sci. Tech., Keio Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○YAGIHASHI, Mizuki; YAMAMOTO, Takashi; EINAGA, Yasuaki; SENBOKU, Hisanori
- 2E3-36** Reductive coupling reaction between isopropyl benzoates and acetyl chloride by calcium metal. (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○SAKATA, Hiroto; ZHANG, Tianyuan; MAEKAWA, Hirofumi
- 2E3-37[#]** Catalytic oxidative cross-coupling of enolates based on V(V)/O₂ system (Sch. Eng., Osaka Univ.) ○JIN, Yuqing; OSAFUNE, Yuma; HIRAO, Toshikazu; TOBISU, Mamoru; AMAYA, Toru
- 2E3-38** Electrochemical assembly of pillar[6]arene with controlled morphology using solvent effects (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HIROHATA, Tomoki; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; OGOSHI, Tomoki; INAGI, Shinsuke

Chair: INAGI, Shinsuke (15 : 30~16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(2E3-40, 2E3-41, 2E3-42, 2E3-43)
- 2E3-40** Synthesis of Thienothiophene via Electro-oxidative Double Cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KATAURA, Nozomi; MITSUDO, Koichi; SUGA, Seiji
- 2E3-41** Synthesis of C-Azanucleoside by Anodic C-Glycosidation Reaction (Tokyo Univ. of Agri. and Technol.) ○TSUTSUI, Mizuki; OKAMOTO, Kazuhiro; CHIBA, Kazuhiro
- 2E3-42** Electrochemical Peptide Bond Formation Reaction Assisted by a Soluble Tag Method (Fac. Agr., Tokyo Univ. of Agri. and Technol.) ○NAGAHARA, Shingo; OKADA, Yohei; CHIBA, Kazuhiro
- 2E3-43[#]** Oxidative Electron Transfer-Induced Vinylcyclopropane Rearrangements (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKADA, Yohei; MAETA, Naoya; KAMIYA, Hidehiro

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(13 : 00~13 : 10)

- 3E3-25[#] Opening Remarks / Closing Remarks** Opening Remark (Osaka Univ.) ○Amaya, Toru (13:00~13:10)

Chair: NOKAMI, Toshiki (13 : 10~14 : 10)

- 3E3-26[#] Invited Lecture** m-Quinodimethane-Based Open-Shell Singlet Polycyclic Aromatics (Osaka Univ.) ○Shimizu, Akihiro (13:10~13:30)
- 3E3-28[#] Invited Lecture** Redox and coordination chemistry of tellurophenes (Tokyo Inst. of Technology) ○Shida, Naoki (13:30~13:50)
- 3E3-30[#] Invited Lecture** Printable Thermally-Activated Delayed-Fluorescence Dendrimers for OLED applications (Kyushu Univ.) ○Albrecht, Ken (13:50~14:10)

Chair: Inagi, Shinsuke (14 : 20~15 : 40)

- 3E3-33[#] Invited Lecture** Photovoltaic performances of type-II dye-sensitized solar cells based on catechol dyes (Hiroshima Univ.) ○Ooyama, Yousuke (14:20~14:40)
- 3E3-35[#] Keynote Lecture** Enantioselective Electron Transfer at Chiral-Encoded Metal Surfaces (Vidyasirimedhi Inst. of Science and Technology) ○Wattanakit, Chularat (14:40~15:10)
- 3E3-38[#] Invited Lecture** Small molecule conversion based on the precise

control of electron transfer (Osaka Univ.) ○Masaoka, Shigeyuki (15:10~15:40)

Chair: Mitsudo, Koichi (15 : 50~17 : 10)

- 3E3-42[#] Invited Lecture** Electrochemistry: An Old Field for A New Era (Scripps Research) ○Kawamata, Yu (15:50~16:10)
- 3E3-44[#] Keynote Lecture** When transition metal catalysis meets electrochemistry (Shanghai Inst. of Organic Chemistry) ○Mei, Tian-Sheng (16:10~16:40)
- 3E3-47[#] Invited Lecture** Electroorganic Chemistry toward Natural Products Synthesis (Keio Univ.) ○Nishiyama, Shigeru (16:40~17:10)

(17 : 10~17 : 20)

- 3E3-50[#] Opening Remarks / Closing Remarks** Closing Remark (Tokyo Univ. of Agriculture and Technology) ○Chiba, Kazuhiro (17:10~17:20)

Room E4
Lecture Hall Bldg. K404

Organic Crystals

Monday, March 23, AM

Inclusion, Cocrystal

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

- * 8:50-9:00: interval for laptop PC connection.(2E4-01, 2E4-02, 2E4-03, 2E4-04, 2E4-05, 2E4-06)
- 2E4-01** Cocrystallization of benzoquinone derivatives with a functionalized V-shaped host molecule and their crystal structures (Showa Pharm. Univ.; Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○KAWAHATA, Masatoshi; TOMINAGA, Masahide; KOMATSU, Ryota; HYODO, Tadashi; YAMAGUCHI, Kentaro
- 2E4-02** Inclusion and separation of xylene isomers by an adamantane-based macrocycle with pyridazine moieties (Kagawa Sch. Pharm. Sci., Tokushima Bunri Univ.) ○TOMINAGA, Masahide; HYODO, Tadashi; YAMAGUCHI, Kentaro
- 2E4-03** Construction of various porous structures composed of tetrasulfonic acids and modified tritylamines and conversion of their properties (Grad. Sch. Eng., Osaka Univ.) ○SEI, Hiroi; TSUCHIYA, Keiho; TOHNAI, Norimitsu
- 2E4-04** Construction and evaluation of porous organic salts composed of tetrasulfonic acid containing saddle-shaped porphyrin and amine. (Grad. Sch. Eng., Osaka Univ.) ○OKUBO, Kohei; TSUCHIYA, Keiho; TOHNAI, Norimitsu
- 2E4-05** Co-crystallization and Networking of Discrete Entangled Assemblies Based on Triarylmethane Frameworks (Grad. Sch. Eng., The Univ. of Tokyo; Department of Applied Chemistry,) ○YAMAMOTO, Kidai; ABE, Masahiro; DOMOTO, Yuya; FUJITA, Makoto
- 2E4-06** Construction of a huge coordination network based on a Ca ion-induced peptide duplex (Grad. Sch. Eng., The Univ. of Tokyo) ○SABUROMARU, Yuta; SAWADA, Tomohisa; FUJITA, Makoto

Adsorption and Desorption

Chair: AKAZOME, Motohiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2E4-08, 2E4-09, 2E4-10, 2E4-11, 2E4-12)
- 2E4-08** Synthesis, Crystal Structure, and CO₂ Adsorption Behavior of Fluorinated Phenylalanine Derivative (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○SAKAGUCHI, Kei; YAMANAKA, Kazuaki; HIRAI, Chikara; TAKAHASHI, Hiroki; TSUE, Hirohito
- 2E4-09** The crystal structure of several solvates of a bisphenol derivative (Coll. Eng. Sci., Yokohama Natl. Univ.; Mitsubishi Chemical Corp. SIC) ○FUJINO, Mizuki; GONTANI, Saori; NAKAMURA, Takeshi; MATSUMOTO, Shinya
- 2E4-10** Crystal structure and hygroscopicity of the multi-component crystals of active pharmaceutical ingredient betahistine (Sch. Sci., Tokyo Tech.) ○MORIGUCHI, Marina; SEKINE, Akiko; UEKUSA, Hidehiro
- 2E4-11** Crystal Structure Analysis and Dehydration of Loxoprofen Sodium Dihydrate (Sch. Sci., Tokyo Tech.) ○OYAMA, Hironaga; SEKINE, Akiko; UEKUSA, Hidehiro

Intermolecular Force

- 2E4-12^{*}** Distance dependence of intermolecular interaction energy (CD-FMat, AIST) ○TSUZUKI, Seiji; UCHIMARU, Tadafumi

Monday, March 23, PM

Structure and Property

Chair: MUTAI, Toshiki (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2E4-33, 2E4-34, 2E4-35, 2E4-36, 2E4-37, 2E4-38)
- 2E4-33** Crystalline-state chemiluminescence properties of 1,2-dioxetanes with a structurally modulated chromophore (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○MATSUHASHI, Chihiro; UEKUSA, Hidehiro; SATO-TOMITA, Ayana; ICHIYANAGI, Kouhei; MAKI, Shojiro; HIRANO, Takashi
- 2E4-34** Crystalline-state chemiluminescence property of acridine-containing dioxetanes (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KOURA, Fumiya; MATSUHASHI, Chihiro; UEKUSA, Hidehiro; MAKI, Shojiro; HIRANO, Takashi
- 2E4-35** Fluorescent change of dibenzoylmethanato boron fluoride complex during evaporative crystallization observed by hyperspectral camera. (Fac. Edu., Shinshu Univ.) ○KATSUMI, Shiho; ASAO, Naoki; ITO, Fuyuki
- 2E4-36** Photoinduced Birefringence Change of 9-Methylanthracene Single Crystals (Grad. Sch. Eng., Osaka City Univ.; Department of Chemistry, University of California, Riverside) ○MORIMOTO, Kohei; TONG, Fei; KITAGAWA, Daichi; BARDEEN, Christopher J.; KOBATAKE, Seiya
- 2E4-37** Pressure Response on Luminescence of Crystal of Dibenzoylmethanateboron Complexes Possessing Iodine Atoms (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Mat. Sci., Univ. of Hyogo) ○ARI, Takumu; YAMAMOTO, Shun; SAKAI, Atsushi; IIDA, Hiroki; MATSUI, Yasunori; OHTA, Eisuke; OZAWA, Yoshiki; ABE, Masaaki; IKEDA, Hiroshi
- 2E4-38** Synthesis and Crystal Structures of Rigid Macrocycles Containing Disilylanthracene and Biaryl Moieties (Grad. Fac. Eng., Yokohama Natl. Univ.) ○TOKORO, Yuichiro; NAKAGAWA, Tetsuya; OYAMA, Toshiyuki

Chair: KOBATAKE, Seiya (15 : 30~16 : 40)

- * 15:20-15:30: interval for laptop PC connection.(2E4-40, 2E4-42, 2E4-43, 2E4-44, 2E4-45, 2E4-46)
- 2E4-40*** Correlation between Crystalline-State Photochromism and Reaction Cavity Volumes of Spiropyran Salts with Various Anions (Fac. Eng., Sanyo-Onoda City Univ.; Grad. Sch. Eng., Sanyo-Onoda City Univ.) ○FUNASAKO, Yusuke; ASON, Morihiko; TAKEBAYASHI, Jun-ichiro; INOKUCHI, Makoto
- 2E4-42** Relationship between structure and photochromism of spirocyan crystals with halogen substituents (Sch. Sci., Tokyo Tech.) ○ISHIMOTO, Yurie; SUGIYAMA, Haruki; SEKINE, Akiko; UEKUSA, Hidehiro
- 2E4-43** Dual photoreactivity and crystal structure of cobaloxime complexes with spirocyan derivatives (Sch. Sci., Tokyo Tech.) ○SUZUKI, Akane; SEKINE, Akiko; UEKUSA, Hidehiro

Dynamic and Mechanical Behavior

- 2E4-44** Quantitative analysis of mechanical properties in a photo-triggered phase transition crystal (Ctr. for Data Sci., Waseda Univ.) ○TANIGUCHI, Takuya; ASAHU, Toru; KOSHIMA, Hideko
- 2E4-45** Statistical modeling of photomechanical bending of a salicylidene-naphthylethylamine crystal (Sch. Advanced Sci. Eng., Waseda Univ.) ○ISHIZAKI, Kazuki; HAGIWARA, Yuki; KOSHIMA, Hideko; TANIGUCHI, Takuya; ASAHU, Toru
- 2E4-46** Motion and structural analysis of an azobenzene derivative crystal showing wave-type self-oscillation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○YAZAKI, Daisuke; IKEGAMI, Tomonori; KAGEYAMA, Yoshiyuki; TAKEDA, Sadamu

Chirality

Chair: AZUMAYA, Isao (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2E4-49, 2E4-50, 2E4-51, 2E4-52)
- 2E4-49** Chiral and Achiral Polymorphic Control of Benzophenone Derivatives (Grad. Sch. Human. Sci., Nara Women's Univ.; Kyousei Sci. Center for Life and Nature, Nara Women's Univ.) ○KUROSAKI, Mizuho; MATSUMOTO, Arimasa; HIRATA, Shuzo; MIKATA, Yuji
- 2E4-50** Chirality Control in Crystallization Using Optical Vortex Laser (Grad. Sch. Eng., Chiba Univ.) ○UEMURA, Naohiro; SAITO, Rei; ISHIKAWA, Hiroki; YOSHIDA, Yasushi; MINO, Takashi; OMATSU, Takashige; SAKAMOTO, Masami
- 2E4-51** Absolute asymmetric synthesis of benzoin (Grad. Sch. Eng., Chiba Univ.) ○WASHIO, Aoi; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 2E4-52** Development of Absolute Asymmetric Synthesis of Flavanones (Grad. Sch. Eng., Chiba Univ.) ○SHIMIZU, Waku; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

Tuesday, March 24, AM

Chair: TOHNAI, Norimitsu (9 : 00 ~9 : 50)

- * 8:50-9:00: interval for laptop PC connection.(3E4-01, 3E4-02, 3E4-04)
- 3E4-01** Desymmetrization of meso-sugar involving dynamic crystallization (Chiba Univ.) ○SANADA, Kazutaka; WASHIO, Aoi; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; KASASHIMA, Yoshio; SAKAMOTO, Masami
- 3E4-02**** Stereoselective photodimerization of anthracene derivatives in liquid-crystalline reaction medium (RIKEN CEMS; Grad. Sch. Sci., Eng., Saitama Univ.) ○KANAI, Hayato; YAMADA, Kuniyo; KODAMA, Koichi; ISHIDA, Yasuhiro

Structure and Property

- 3E4-04**** Dehydration and Rehydration Mechanisms of Drug Crystal: A New Classification of Hydrates by Activation Energy (Sch. Sci., Tokyo Tech.) ○TAKAHASHI, Michiko; UEKUSA, Hidehiro

Chair: UEKUSA, Hidehiro (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(3E4-07, 3E4-08, 3E4-10)
- 3E4-07*** Photo-triggered phase transition of salicylideneamine crystal (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HAGIWARA, Yuki; TANIGUCHI, Takuya; ASAHU, Toru; KOSHIMA, Hideko
- 3E4-08**** Porous crystals comprising topological bonds (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Hiroshi; MENG, Wenjing; AIDA, Takuzo
- 3E4-10**** Molecular arrangements and dynamics in cocrystals composed of 2-pyrrolidone and anilic acid derivatives with one-dimensional hydrogen-bonded networks (Dep. Chem., Sch. Sci., Kyoto Univ.) ○DONOSHITA, Masaki; YOSHIDA, Yukihiro; HAYASHI, Mikihiko; IKEDA, Ryuichi; SUGIMOTO, Kunihisa; TANAKA, Susumu; KITAGAWA, Hiroshi

Chair: YOSHIOKA, Naoki (11 : 00~11 : 40)

- * 10:50-11:00: interval for laptop PC connection.(3E4-13, 3E4-15)
- 3E4-13**** Development of Porous Molecular Conductors Constructed from Threefold Stack of Linear Coordination Polymers (Grad. Sch. Sci., Tohoku Univ.; AIMR, Tohoku Univ.; Nankai Univ.) ○IGUCHI, Hiroaki; QU, Liyuan; KOYAMA, Shohei; TAKAISHI, Shinya; YAMASHITA, Masahiro
- 3E4-15**** Quantitative analysis of mechanical stimuli-responsiveness for mechanochromic luminophores (Grad. Sch. Eng. Sci., Yokohama Natl. Univ.; Grad. Sch. Eng., Hokkaido Univ.; RIES, Hokkaido Univ.; IIS, The Univ. of Tokyo; Grad. Sch. Eng., Hiroshima Univ.; Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) ○ITO, Suguru; NAGAI, Sayaka; IKEYA, Minako; MASHIMO, Takaki; SEKI, Tomohiro; ITO, Hajime; SAGARA, Yoshimitsu; MUTAI, Toshiki; OYAMA, Yusuke; NAKANO, Ken

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Chair: Katagiri, Hiroshi (13 : 30~14 : 40)

- 3E4-28# Invited Lecture** Design of Multicomponent Crystals for Novel Photofunction Design (Kyushu Univ.) ○Ono, Toshikazu (13:30~13:50)
- 3E4-30# Invited Lecture** Singlet Biradical Compounds: Development and Application to Organic Electronic Devices (Kyushu Univ.) ○Mamada, Masashi (13:50~14:10)
- 3E4-32# Keynote Lecture** From Curved Polycyclic Aromatics To Electronic Materials (The Chinese Univ. of Hong Kong) ○Miao, Qian (14:10~14:40)

Chair: Hisaki, Ichiro (14 : 50~15 : 50)

- 3E4-36# Invited Lecture** Atomistic Structure and Dynamics of Prenucleation Clusters (The Univ. of Tokyo) ○Harano, Koji (14:50~15:10)
- 3E4-38# Invited Lecture** Structures and Properties of Self-Assembled Systems Composed of Unique Shape Molecules (Osaka Univ.) ○Yakiyama, Yumi (15:10~15:30)
- 3E4-40# Invited Lecture** Photomechanical Behavior of Photochromic Diarylethene Crystals (Osaka City Univ.) ○Kitagawa, Daichi (15:30~15:50)

Chair: Kokado, Kenta (16 : 00~17 : 10)

- 3E4-43# Invited Lecture** Controlling the Mechanochromic Luminescence of Organic Crystals (Yokohama National Univ.) ○Ito, Suguru (16:00~16:20)
- 3E4-45# Invited Lecture** Development of Rotaxane-based Supramolecular Mechanophores (Hokkaido Univ.) ○Sagara, Yoshimitsu (16:20~16:40)
- 3E4-47# Keynote Lecture** The Modification of the Functionality of pi-Molecules through the Structural Adjustment (Wuhan Univ.) ○Li, Zhen (16:40~17:10)

Room E6

Lecture Hall Bldg. K406

Biofunctional Chemistry ; Biotechnology

Sunday, March 22, AM

Nucleic Acids (Chemical Synthesis)

Chair: ABE, Hiroshi (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(1E6-01, 1E6-02, 1E6-03, 1E6-04, 1E6-05, 1E6-06)

- 1E6-01** Novel modified adenine for photo-control of artificial nucleic acid SNA by various wavelength of light (Grad. Sch. Eng., Nagoya Univ.)
○YAMANO, Yuuhei; MURAYAMA, Keiji; ASANUMA, Hiroyuki
- 1E6-02[#]** Coordination-driven Base-pair Switching of 5-Hydroxyuracil Nucleobases towards Development of Metal-responsive DNA Tweezers (Grad. Sch. Sci., The Univ. of Tokyo) ○MORI, Keita; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 1E6-03** Synthesis of positional isomers of 2-amino-1,8-naphthyridine dimer and assay of binding with nucleic acid (ISIR, Osaka Univ.)
○KUWAHARA, Satoki; DAS, Bimolendu; NAKATANI, Kazuhiko
- 1E6-04** Development of new photoswitchable molecular glue with improved photoisomerization properties (ISIR, Osaka Univ.) ○KOBAYASHI, Shotaro; DOHNO, Chikara; NAKATANI, Kazuhiko
- 1E6-05** Stereoselective synthesis of boranophosphate RNA by the oxazaphospholidine approach (Fac. Pharm. Sci., TUS) ○OKADA, Kyohei; GOTO, Keisuke; SAITO, Tatsuya; KOGURE, Tomoki; SATO, Kazuki; HARA, Rintaro; WADA, Takeshi
- 1E6-06** Synthesis and properties of oligonucleotides having 2'-O-alkylcarbamoyl ethyl modification. (Sch. Life Sci. Tech., Tokyo Tech.)
○KISHIMURA, Tomohiro; TOMORI, Takahito; MASAKI, Yoshiaki; SEIO, Kohji

Chair: WADA, Takeshi (10 : 10 ~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1E6-08, 1E6-09, 1E6-10, 1E6-11, 1E6-12, 1E6-13)

- 1E6-08** Synthesis and characterization of oligonucleotides bearing photoreactive nitrobenzyl group for control of aggregate formation (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KIKUTHI, Takuto; TANABE, Kazuhito; NISHIHARA, Tatsuya
- 1E6-09** Synthesis and functional evaluation of modified nucleic acid (Sch. Sci., Nagoya Univ.) ○NOMURA, Kohei; MURASE, Hirotaka; NAKAMOTO, Kosuke; KIMURA, Yasuaki; ABE, Naoko; ABE, Hiroshi
- 1E6-10** Synthesis and properties of 13C-labeled naphthyridine derivative (ISIR, Osaka Univ.) ○SAKURABAYASHI, Shuhei; YAMADA, Takeshi; KAWAI, Gota; NAKATANI, Kazuhiko
- 1E6-11** Efficient synthesis of stringent response molecule ppGpp using phosphoramidite reagent (Sch. Life Sci. Tech., Tokyo Tech.) ○AKAI, Ko; SUGIYAMA, Daiki; OHNO, Kentaro; TOMORI, Takahito; MASAKI, Yoshiaki; SEIO, Kohji
- 1E6-12** Design and synthesis of novel non-natural nucleosides for development of chemically-modified nucleic acid aptamers (IMRAM, Tohoku Univ.) ○ITO, Rina; OKAMURA, Hidenori; NAGATSUGI, Fumi
- 1E6-13** Orthogonal base pair formation by the nucleoside analogues bearing additional hydrogen-bonding units (IMRAM, Tohoku Univ.)
○OKAMURA, Hidenori; TRINH HOANG, Giang; NAGATSUGI, Fumi

Chair: NAGATSUGI, Fumi (11 : 20 ~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1E6-15, 1E6-16, 1E6-17, 1E6-18, 1E6-19)

- 1E6-15** Synthesis of novel acyclic artificial nucleic acid based on the structure of L-aTNA (Grad. Sch. Eng., Nagoya Univ.) ○MURAYAMA, Keiji; IIZUKA, Youhei; ASANUMA, Hiroyuki
- 1E6-16** Novel acyclic artificial nucleic acid modified with terminal alkyne on the backbone (Grad. Sch. Eng., Nagoya Univ.) ○YOKOYAMA, Junya; MURAYAMA, Keiji; ASANUMA, Hiroyuki
- 1E6-17** 5'-C-Aminoalkyl-nucleoside (1): Synthesis and evaluation of (S)-5'-C-aminopropyl-2'-O-methylribonucleoside (Gifu Univ.) ○KAJINO, Ryohei; UENO, Yoshihito
- 1E6-18** 5'-C-Aminoalkyl-nucleoside (2) : Synthesis and evaluation of (S)-5'-aminopropyl-2'-fluoroarabinonucleoside (Fac. Applied Bio. Sci., Gifu Univ.) ○ZHOU, Yujun; KAJINO, Ryohei; UENO, Yoshihito
- 1E6-19[#]** Development of A New Method for Chemical Synthesis of Genomic DNAs (Sch. Life Sci. Tech., Tokyo Tech.; CREST, JST) ○SUTO, Hiroki; MIYAKE, Yu; IKEDA, Kousuke; MIYAZAKI, Yu; AKAZAWA, Saaya; OHKUBO, Akihiro

Sunday, March 22, PM

Chair: UENO, Yoshihito (13 : 30 ~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1E6-28, 1E6-29, 1E6-30, 1E6-31, 1E6-32)

- 1E6-28** Synthesis of 2'-O,3'-C-Linked [3.2.0]Bicycloarabinofuranosyl-thymine derivative. (Sch. Life Sci. Tech., Tokyo Tech.) ○WAKATSUKI, Shunsuke; INOUE, Atsushi; MASAKI, Yoshiaki; SEIO, Kohji
- 1E6-29** Function of oligodeoxynucleotides bearing nitrophenol group at nucleobase (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○YOKOTA, Shohei; TANABE, Kazuhito; KURIHARA, Ryohsuke; NISHIHARA, Tatsuya
- 1E6-30** Synthesis and Hybridization Properties of Artificial RNAs Made Exclusively of Alkynyl Ribonucleotides (Grad. Sch. Med. Pharm. Sci. Edu., Univ. of Toyama) ○KUROSAKI, Fumihiko; CHIBA, Junya; INOUE, Masahiko

Nucleic Acids (Function, Medical)

- 1E6-31** Comprehensive identification of RNA-small molecule interaction by NGS analysis of Dicer cleavage products (ISIR, Osaka Univ.)
○TAKASHIMA, Yusuke; MURATA, Asako; NAKATANI, Kazuhiko
- 1E6-32[#]** Transferrin-Appended Nanocapsules for siRNA Delivery into Deep Tissues (Grad. Sch. Eng., The Univ. of Tokyo) ○KOHATA, Ai; P. K., Hashim; OKURO, Kou; AIDA, Takuzo

Chair: DOHNO, Chikara (14 : 40 ~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1E6-35, 1E6-37, 1E6-39, 1E6-40)

- 1E6-35[#]** Cu(II)-specific Activation of Synthetic DNazymes Possessing a Pair of 4-Carboxymidazole-bearing Nucleotides (Grad. Sch. Sci., The Univ. of Tokyo) ○HU, Lingyun; NAKAMA, Takahiro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 1E6-37[#]** Allosteric Regulation of Single-stranded DNazymes Based on Cu(II)-mediated Artificial Base Pairing (Grad. Sch. Sci., The Univ. of Tokyo)
○NAKAMA, Takahiro; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiko
- 1E6-39** Combination effect of cytosine methylation and molecular crowding on thermodynamic stability of DNA duplexes (FIRST, Konan Univ.)
○TSURUTA, Mitsuki; SUGITANI, Yui; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 1E6-40** Promotion of guanine damage by singlet oxygen generated from SYBR Green I in DNA condensation (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) JO, Kento; SAKURAI, Shunsuke; ○TANAKA, Makiko

Chair: IHARA, Toshihiro (15 : 50 ~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1E6-42, 1E6-44, 1E6-45, 1E6-46, 1E6-47)

- 1E6-42[#]** Hypoxia Activated Anticancer Drugs via Selective Bioreduction of Azo and/or Nitro Functionalities (Grad. Sch. Eng., The Univ. of Tokyo)
○MORIHIRO, Kunihiko; ISHINABE, Takuro; OKAMOTO, Akimitsu
- 1E6-44** Promotion of interduplex electron transfer in ϕ -type DNA (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SAKURAI, Shunsuke; ESUMI, Mayu; TANAKA, Makiko
- 1E6-45** Development of pyrene aggregates using DNA backbone for high-brightness CPL expression (Sch. Eng., Nagoya Univ.) KASHIDA, Hiromu; ○ITO, Yuka; NISHIKAWA, Keiji; KAKUTA, Takahiro; OGOSHI, Tomoki; ASANUMA, Hiroyuki
- 1E6-46** Development of nucleic acids fluorescent barcode with sequentially changing fluorescent colors (Grad. Sch. Eng., Nagoya Univ.) ○MAKINO, Koki; KASHIDA, Hiromu; ASANUMA, Hiroyuki
- 1E6-47** Evaluation of the stability of DNA duplex and triplex incorporating photocaged deoxypseudouridine (Sch. Life Sci. Tech., Tokyo Tech.)
○YAMADA, Yuji; TAKESHITA, Leo; MASAKI, Yoshiaki; SEIO, Kohji

Chair: OHKUBO, Akihiro (17 : 00 ~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(1E6-49, 1E6-51, 1E6-53, 1E6-54)

- 1E6-49^{*}** Development of a Next-Generation Nucleic Acid Medicine using nucleic acid analogs (Fac. Adv. Sci. Tech., Kumamoto Univ.)
○KATSUDA, Yousuke; SATO, Shin-ichi; HAGIHARA, Masaki; KAMURA, Takuto; KITAMURA, Yusuke; IHARA, Toshihiro
- 1E6-51[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (64): Effects of malignant alteration in cancer cells on the DNA structures and transcript mutations (FIBER, Konan Univ.) ○TATEISHI-KARIMATA, Hisae; KAWAUCHI, Keiko; OHYAMA, Tatsuya; SUGIMOTO, Naoki
- 1E6-53** Highly Efficient Translation by Introducing Chemical Modification into mRNA (Grad. Sch. Sci., Nagoya Univ.) ○KAWAGUCHI, Daisuke; KODAMA, Ayumi; SHIMIZU, Yoshihiro; ABE, Naoko; NAKAMOTO, Kousuke; HASHIYA, Fumitaka; KIMURA, Yasuaki; ABE, Hiroshi
- 1E6-54** Acquisition of RNA aptamer to regulate Protein-Protein Interaction (Kumamoto Univ.) ○FUCHIGAMI, Yusuke; KATSUDA, Yousuke; INOUE, Maimi; KITAMURA, Yusuke; YAMAGUCHI, Yoshihiro; IHARA, Toshihiro

Chair: MIYOSHI, Daisuke (18 : 10~19 : 00)

* 18:00-18:10: interval for laptop PC connection.(1E6-56, 1E6-57, 1E6-58, 1E6-59, 1E6-60)

1E6-56 Effects of polyamines on DNA structural changes and guanine photodamage (The Univ. of Electro-Communications) OESUMI, Mayu; SAKURAI, Shunsuke; TANAKA, Makiko

1E6-57 Synthesis of N3-position-modified thioflavin T with a tertiary amine and its binding and fluorescence properties for guanine quadruplexes (Grad. Sch. Integrated Basic Sci., Nihon Univ.) OYOSHIMURA, Miki; KATAOKA, Yuka; KUWAHARA, Masayasu

1E6-58 Development of DNA-protein complex aiming high selective recognition of membrane antigens (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) OMOTOHASHI, Yuto; MORITANI, Shuhei; NISHIHARA, Tatsuya; TANABE, Kazuhito

1E6-59 Development of new DNA assembly method for the genome synthesis (Grad. Sch. Sci., Nagoya Univ.) OMURASE, Hirotaka; NAKAMOTO, Kosuke; ABE, Naoko; FUKUI, Ryusuke; HASHIYA, Fumitaka; KIMURA, Yasuaki; ABE, Hiroshi

1E6-60 Withdrawn

Monday, March 23, AM

Nucleic Acids (Quadruplexes)

Chair: XU, Yan (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 Elucidation of correlation between push and pull effects on peroxidase activity of a complex between heme and an all parallel-stranded tetrameric G-quadruplex DNA (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) OHAGIWARA, Shota; SHINOMIYA, Ryosuke; MOMOTAKE, Atsuya; YAMAMOTO, Yasuhiko; SUZUKI, Akihiro; NEYA, Saburo

2E6-02 Characterization of all parallel-stranded dimeric G-quadruplex DNAs formed from human telomere-related sequences and their complexes with heme (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) OKAMOTO, China; SHINOMIYA, Ryosuke; YAMADA, Kao; MOMOTAKE, Atsuya; YAMAMOTO, Yasuhiko

2E6-03 Elucidation of Molecular Mechanism Responsible for Enhancement of Peroxidase Activity of a Complex between Heme and a G-quadruplex DNA (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ARAKI, Haruka; MOMOTAKE, Atsuya; OYAMAMOTO, Yasuhiko; OCHIAI, Takuro; SHIMADA, Naohiko; MARUYAMA, Atsushi

2E6-04 Structure development and fluorescent evaluation of G4 ligands for detection of G-quadruplex (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OWAKABAYASHI, Yuki; SAITO, Ryota; TERA, Masayuki; MA, Yue; NAGASAWA, Kazuo

2E6-05 Synthesis of light-up type ligands, which shows specifically fluorescent in the presence of G-quadruplex (Fac. Eng., Tokyo Univ. of Agri. and Technol.) OWATATANI, Naruyuki; WAKABAYASHI, Yuki; MA, Yue; NAGASAWA, Kazuo

2E6-06 Enzymatically synthesis and fluorescence detection of various bead-on-a-string-like G-quadruplexes (Grad. Sch. Integrated Basic Sci., Nihon Univ.) OKATAOKA, Yuka; FUJITA, Hiroto; KUWAHARA, Masayasu

Monday, March 23, PM

Chair: KUWAHARA, Masayasu (12 : 30~13 : 30)

* 12:20-12:30: interval for laptop PC connection.(2E6-22, 2E6-23, 2E6-24, 2E6-25, 2E6-26, 2E6-27)

2E6-22 Characterization of an imidazole adduct of a heme-DNA complex (Sch. Sci. Eng., Univ. of Tsukuba) ONAKAJIMA, Yusuke; MOMOTAKE, Atsuya; YAMAMOTO, Yasuhiko

2E6-23 Complexes between G-quadruplex DNA and Phthalocyanine derivatives (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) UCHIYAMA, Mami; SHIBATA, Tomokazu; OMOMOTAKE, Atsuya; IKEUE, Takahisa; MATSUI, Toru; YAMAMOTO, Yasuhiko

2E6-24 Synthesis and evaluation of linear type polyoxazoles as G-quadruplex ligands against telomeric DNA (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSASAKI, Shogo; BAO, Hong-liang; ISHIZUKA, Takumi; XU, Yan; TERA, Masayuki; MA, Yue; NAGASAWA, Kazuo

2E6-25[#] DNA Quadruplex-Duplex Hybrids as Bimolecular Scaffolds for Asymmetric Catalysis (Grad. Sch. Sci., Kyoto Univ.; Fac. Sci., Kyoto Univ.) OYUM, Jihye; PARK, Soyoung; SUGIYAMA, Hiroshi

2E6-26 Effects of coexisting cation on DNA G-quadruplex ligand screening (FIRST, Konan Univ.) OHASHIMOTO, Yoshiki; TAKAMIYA, Nagisa; SUGIMOTO, Naoki; AKASHI, Satoko; MIYOSHI, Daisuke

2E6-27[#] Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (58): The effect of molecular crowding on the stability of RNA G-quadruplexes with various number of quartets and loops (FIBER, Konan Univ.) OMATSUMOTO, Saki; TATEISHI, Hisae; TAKAHASHI, Shuntaro; SUGIMOTO, Naoki

Nucleic Acids (Structure)

Chair: YAMAMOTO, Yasuhiko (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2E6-29, 2E6-30, 2E6-31, 2E6-32)

2E6-29 Development of Novel G4 Ligand for Fluorescence Detection of G-quadruplex (G4) (Grad. Sch. Sci., Chiba Univ.) OISHIDA, Shunsuke; ARAI, Takayoshi; IIDA, Keisuke

2E6-30 Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (63): Accumulation mechanism for GGGGCC repeated RNA G-quadruplex with dipeptide repeats using molecular simulations (FIBER, Konan Univ.) OHYAMA, Tatsuya; TATEISHI, Hisae; TANAKA, Shigenori; SUGIMOTO, Naoki

2E6-31 X-ray crystal structure of a reverse binding orientation cyclic-PIP and DNA complex (Dep. Chem., Sch. Sci., Kyoto Univ.) OABE, Katsuhiko; HIROSE, Yuki; EKI, Haruhiko; TAKEDA, Kazuki; ENDO, Masayuki; BANDO, Toshikazu; SUGIYAMA, Hiroshi

2E6-32[#] Young Scholar Lectures of CSJ Chemical regulation of gene expression based on the topology of DNA structures (FIBER, Konan Univ.) OTAKAHASHI, Shuntaro

Chair: NAGASAWA, Kazuo (16 : 50~17 : 40)

* 16:40-16:50: interval for laptop PC connection.(2E6-48, 2E6-49, 2E6-50, 2E6-51, 2E6-52)

2E6-48 Direct observation of higher-order structure of CUG repeat RNAs assembly (IAE, Kyoto Univ.) OSHIMIZU, Musashi; NAKANO, Shun; TAJIMA, Shunsuke; MORII, Takashi

2E6-49 Encapsulation of enzymes arranged on DNA nanostructures with nanoliposomes (Grad. Sch. Energy Sci., Kyoto Univ.) OWAKISAKA, Tomohiko; KONISHI, Hiroaki; DINH, Huyen; NAKATA, Eiji; MORII, Takashi

2E6-50 High-speed AFM observation of light drive a DNA origami Molecular. (Fac. Chem. Materials and Bioeng., Kansai Univ.) ONISHIKAWA, Tomoki; MORITAKA, Yuto; ISHIKAWA, Shumpei; OHYA, Yuichi; KUZUYA, Akinori

2E6-51 Estimation of Molecular Chain Length of Synthetic Polymers using DNA Origami Molecular Machine (Fac. Chem. Materials and Bioeng., Kansai Univ.) OHASHIMOTO, Yuki; ITO, Ryota; ISHIKAWA, Shumpei; OHYA, Yuichi; KUZUYA, Akinori

2E6-52 Distance Dependency of Electroless Plating between Enzyme and AuNPs on DNA Origami Structure (Fac. Chem. Materials and Bioeng., Kansai Univ.) OISHIKAWA, Shumpei; ISLAM, Md. Sirajul; AKAMATSU, Naohide; OHYA, Yuichi; KUZUYA, Akinori

Tuesday, March 24, AM

Nucleic Acids (Chemical Synthesis, Molecular Recognition)

Chair: MORIHIRO, Kunihiko (9 : 00 ~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3E6-01, 3E6-02, 3E6-03, 3E6-04, 3E6-05, 3E6-06)

3E6-01 Increase of melting temperature of duplex DNA does not usually indicate specific binding between metal ion and mismatched base pair (Fac. Sci., TUS) ARAKAWA, Fumihiko; OKIDA, Hayahide; ADACHI, Saki; ONO, Akira; URATA, Hidehito; HIRABAYASHI, Kei; TORIGOE, Hidetaka

3E6-02 Specific binding between metal ion and mismatched base pair under molecular crowding condition (Fac. Sci., TUS) ONAKAYAMA, Sumire; ADACHI, Saki; ONO, Akira; HIRABAYASHI, Kei; TORIGOE, Hidetaka

3E6-03 Development of pseudo complementary SNA for improving RNA recognition ability (Grad. Sch. Eng., Nagoya Univ.) OSATO, Fuminori; MURAYAMA, Keiji; KAMIYA, Yukiko; ASANUMA, Hiroyuki

3E6-04[#] Chiral Assembly of Cu(II)-Complexes within Glycol Nucleic Acids (Grad. Sch. Sci., The Univ. of Tokyo) OLEON, Jens Christian; TAKEZAWA, Yusuke; NAKAYA, Manabu; SHIONOYA, Mitsuhiko

3E6-05[#] Synthesis and the properties of NA Dimer (ISIR, Osaka Univ.) OCHEN, Qingwen; YAMADA, Takeshi; MURATA, Asako; NAKATANI, Kazuhiko

3E6-06[#] Synthesis and nucleic acid binding property of a series of quinoxaline-2,3-dione derivatives (ISIR, Osaka Univ.) OXING, Zilu; SHIBATA, Tomonori; NAKATANI, Kazuhiko

Nucleic Acids (Molecular Recognition, Function)

Chair: TORIGOE, Hidetaka (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3E6-08, 3E6-10, 3E6-12, 3E6-13)

3E6-08[#] Evaluation of oligodeoxynucleotides containing tricyclic 2-oxobenzobenzothiazine derivatives that targets adenine nucleobase (Grad. Sch. Pharm., Osaka Univ.) OKISHIMOTO, Yuki; FUJII, Akane; NOZAKI, Natsumi; NAKAGAWA, Osamu; OBIKA, Satoshi

3E6-10[#] Inhibition of receptor dimerization using a DNA aptamer and its effect on cell signaling (Grad. Sch. Eng., The Univ. of Tokyo) OEGUCHI, Akihiro; KUWATA, Keiko; NAGATOISHI, Satoru; TSUMOTO, Kouhei;

UEKI, Ryosuke; SANDO, Shinsuke

- 3E6-12[#]** Assembly of ruthenium complexes on dsDNA using mismatch binding ligand (ISIR, Osaka Univ.) ○NI, Lu; YAMADA, Takeshi; NAKATANI, Kazuhiko
- 3E6-13[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (59): Prediction method for the stability of RNA/DNA hybrid duplex under a physiological condition (FIBER, Konan Univ.) ○BANERJEE, Dipanwita; TATEISHI-KARIMATA, Hisae; OHYAMA, Tatsuya; TRAJKOVSKI, Marko; TOPLISHEK, Maria; TAKAHASHI, Shuntaro; ENDOH, Tamaki; PLAVEC, Janez; SUGIMOTO, Naoki

Nucleic Acids (Sensing)

Chair: ENDOH, Tamaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3E6-15, 3E6-16, 3E6-17, 3E6-19, 3E6-20)
- 3E6-15** Development of NIR fluorescent probe responsive to the phosphatase activity in nuclei (Grad. Sch. Sys. Eng., Wakayama Univ.) ○SOEDA, Takayuki; SAKAMOTO, Takashi
- 3E6-16** Synthesis of a Thioflavin T dimer and its evaluation of fluorescence properties (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○WATAHIKI, Kenta; FUJITA, Hiroto; KATAOKA, Yuka; KUWAHARA, Masayasu
- 3E6-17*** Development of highly sensitive detection of mRNA (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○FUJITA, Hiroto; KATAOKA, Yuka; WATAHIKI, Kenta; KUWAHARA, Masayasu
- 3E6-19** Construction and Evaluation of an Orientation-Dependent FRET Pair Using Fluorescent Thymine and Cytosine Analogues (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HIRASHIMA, Shingo; PARK, Soyoun; SUGIYAMA, Hiroshi
- 3E6-20[#]** Synthesis of fluorescent nucleoside analogues and their application as dual probes for the non-canonical DNA structures (Grad. Sch. Sci., Kyoto Univ.) ○WEE, Wen, Ann; YUM, Jihye; HIRASHIMA, Shingo; PARK, Soyoun; SUGIYAMA, Hiroshi

Tuesday, March 24, PM

Nucleic Acids (Structure, Function)

Chair: KATSUDA, Yousuke (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(3E6-30, 3E6-32, 3E6-34, 3E6-35)
- 3E6-30*** Improvement of fluorescent aptamer focusing on its G-quadruplex and design of pH-sensitive Baby Spinach aptamer (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; University of Rome Tor Vergata) ○UENO, Kinuko; TSUKAKOSHI, Kaori; PORCHETTA, Alessandro; RICCI, Francesco; IKEBUKURO, Kazunori
- 3E6-32*** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (57) : Parameters for prediction of DNA duplex stabilities under the crowding conditions (FIBER, Konan Univ.; FIRST, Konan Univ.) ○GHOSH, Saptarshi; TAKAHASHI, Shuntaro; OHYAMA, Tatsuya; ENDOH, Tamaki; TATEISHI-KARIMATA, Hisae; SUGIMOTO, Naoki
- 3E6-34[#]** Development of Photo-cleavable Protecting Pro-oligos for Membrane-permeable Delivery (Grad. Sch. Eng., The Univ. of Tokyo) ○ZHANG, Qiaoyu; MORIHIRO, Kunihiko; OKAMOTO, Akimitsu
- 3E6-35** Oligonucleotides that respond upon pH change: Functional substituent bearing imine bond and their pH response (Grad. Sch. Sci., Nihon, Aoyama Gakuin Univ.) ○TOMIMIZU, Shunichiro; NISHIHARA, Tatsuya; KURIHARA, Ryosuke; TANABE, Kazuhito

Nucleic Acids (Sensing, Function)

Chair: SEIO, Kohji (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(3E6-37, 3E6-39, 3E6-40, 3E6-41, 3E6-42)
- 3E6-37*** Development of electrochemical molecular beacon and its application to the detection of nucleic acids in a homogeneous solution (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○KITAMURA, Yusuke; MISHIO, Kotaro; IKEDA, Boui; KATSUDA, Yousuke; IHARA, Toshihiro
- 3E6-39[#]** A Biofunctional SNA Molecular Beacon for Detecting T790M Point Mutation (Grad. Sch. Eng., Nagoya Univ.) ○LIU, Zehua; MURAYAMA, Keiji; ASANUMA, Hiroyuki
- 3E6-40[#]** Intercalation-induced triplex-forming linear probe for dsDNA detection with high sensitivity (Grad. Sch. Eng., Nagoya Univ.) ○CHEN, Yanglingzhi; MURAYAMA, Keiji; ASANUMA, Hiroyuki
- 3E6-41** Withdrawn
- 3E6-42** Synthesis of malachite green derivative and evaluation of fluorescence properties for nucleotide strands (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○TAMURA, Miyuki; KATAOKA, Yuka; KUWAHARA, Masayasu

Nucleic Acids (Medical, Structure)

Chair: UEKI, Ryosuke (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(3E6-44, 3E6-45, 3E6-46, 3E6-47, 3E6-48, 3E6-49)
- 3E6-44** Development of light harvesting antenna using DNA junction with

multiple fluorophores (Grad. Sch. Eng., Nagoya Univ.) ○AZUMA, Hidenori; KASHIDA, Hiromu; ARAKI, Yasuyuki; WADA, Takehiko; ASANUMA, Hiroyuki

- 3E6-45** Crystal structures of acyclic nucleic acid-RNA hybrids (Grad. Sch. Eng., Nagoya Univ.) ○KAMIYA, Yukiko; SATOH, Tadashi; KODAMA, Atsushi; SUZUKI, Tatsuya; UCHIYAMA, Susumu; KATO, Koichi; ASANUMA, Hiroyuki
- 3E6-46** Multiple releasing system of small molecules in response to microRNA (The Univ. of Tokyo) ○FUKUI, Daisuke; MORIHIRO, Kunihiko; OKAMOTO, Akimitsu
- 3E6-47** Ce(IV)/EDTA complex for RNA structure analysis (Fac. Med., Univ. of Miyazaki) ○ISHIZUKA, Takumi; XU, Yan
- 3E6-48*** A trifluoromethylation 2' -deoxy-guanosine derivative for G-quadruplex and Z-DNA structure study (Fac. Med., Univ. of Miyazaki) ○BAO, Hongliang; ISHIZUKA, Takumi; XU, Yan
- 3E6-49** Molecular dynamics simulation of RNA duplex with 2',5'-nucleotide under high pressure (Sch. Life Sci. Tech., Tokyo Tech.) ○MIYAZAKI, Sho; MASAKI, Yoshiaki; SEIO, Kohji

Wednesday, March 25, AM

Chair: TAKAHASHI, Shuntaro (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4E6-01, 4E6-02, 4E6-03, 4E6-04, 4E6-05, 4E6-06)
- 4E6-01[#]** Fluctuation of DNA methylation in LINE-1 caused by metal ions (Grad. Sch. Eng., The Univ. of Tokyo) ○LIU, Shan; TAKEUCHI, Fumika; MORIHIRO, Kunihiko; OKAMOTO, Akimitsu
- 4E6-02** DNA transition of cytosine derivatives in DNA strand toward for genome editing by using reversible DNA photo-cross-linking (Sch. Mat. Sci., JAIST) ○NAKAMURA, Shigetaka; SETHI, Siddhant; WAN, Licheng; FUJIMOTO, Kenzo
- 4E6-03** G-quadruplex binding protein selective modification with hemin-activated luminol derivatives (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○MASUZAWA, Tatsuki; SATO, Shinichi; NAKAMURA, Hiroyuki; OYOSHI, Takanori
- 4E6-04[#]** Direct observation of nucleosome interaction in DNA frame using high-speed AFM (Dep. Chem., Sch. Sci., Kyoto Univ.) ○FENG, Yihong; HIDAKA, Kumi; SUGIYAMA, Hiroshi; ENDO, Masayuki
- 4E6-05** Liquid-liquid phase separation of short G-quadruplex RNA oligonucleotides and RGG oligo peptides (FIRST, Konan Univ.) ○KOHATA, Kazuki; SUGIMOTO, Wataru; KAWAUCHI, Keiko; SUGIMOTO, Naoki; MIYOSHI, Daisuke
- 4E6-06** Analysis of the structural stability and dynamics of nucleic acids forming non-canonical structures using in-cell NMR (Grad. Sch. Energy Sci., Kyoto Univ.) ○SAKAMOTO, Tomoki; YAMAOKI, Yudai; NAGATA, Takashi; KATAHIRA, Masato

Nucleic Acids (Structure)

Chair: ENDO, Masayuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4E6-08, 4E6-10, 4E6-11, 4E6-12)
- 4E6-08*** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (60) : Interaction analyses between natural alkaloids and RNAs with different structure motifs (FIBER, Konan Univ.; FIRST, Konan Univ.) ○ENDO, Tamaki; SATPATHI, Sagar; SUGIMOTO, Naoki
- 4E6-10[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (61) : Effect of Neighboring Base Pairs of Cytosine Bulge on Berberine Induced RNA Stabilization (FIBER, Konan Univ.; FIRST, Konan Univ.) ○SATPATHI, Sagar; ENDO, Tamaki; SUGIMOTO, Naoki
- 4E6-11[#]** Nucleic Acids Chemistry beyond the Watson-Crick Double Helix (62) : Transformation of selective i-motif DNAs induced by flavonoid (FIBER, Konan Univ.) ○TAKAHASHI, Shuntaro; BHOWMIK, Sudipta; SUGIMOTO, Naoki
- 4E6-12*** Enzymatic Reactions on Topologically-Interlocked DNA Structures Inside a DNA Origami Frame (IAE, Kyoto Univ.) ○RAJENDRAN, Arivazhagan; PARK, Seo-jeong; NAKATA, Eiji; KWON, Youngjoo; OSHEROFF, Neil; MORII, Takashi

Room F1
Lecture Hall Bldg. K501

Materials Chemistry

Sunday, March 22, AM

Organic/polymeric Materials

Chair: TAMESUE, Shingo (9 : 10 ~9 : 50)

- * 9:00-9:10: interval for laptop PC connection.(1F1-02, 1F1-03, 1F1-04, 1F1-05)

- 1F1-02** Synthesis and Ionic Conductivity of Covalent Organic Frameworks including Divalent Cations (Fac. Sci., TUS) ○AMACUHI, Daiju; SADAKIYO, Masaaki
- 1F1-03** Analysis of charge transport mechanism of n-type aromatic organic semiconductors thin film by using impedance spectroscopy (Fac. Eng., Chiba Univ.) ○OTSUKA, Kunpei; AMANO, Shota; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 1F1-04** Development of new solid-state electrolyte materials using polyketones (Sci. Tec., Sophia Univ.) ○YAMAGUCHI, Shohei; JONAS, Mindemark; INOKUMA, Yasuhide; FUJITA, Masahiro
- 1F1-05** Syntheses and characterization of silk fibroin nanoparticles for drug delivery system (IMRAM, Tohoku Univ.) ○NAKAMURA, Motofumi; TAEMAITREE, Farsai; DAO, Anh Thi Ngoc; KASAI, Hitoshi

Chair: NAKAMURA, Kazuki (10 : 00~10 : 50)

- * 9:50-10:00: interval for laptop PC connection.(1F1-07, 1F1-08, 1F1-09, 1F1-11)
- 1F1-07** Creation of Structural-controlled Polymer materials in Micro-order Flow Channels (Grad. Sch. Sci. Technol., Shinshu Univ.) ○IMAZU, Akane; KITAZAWA, Yu; KIMURA, Mutsumi
- 1F1-08** Adhesion between Organogels by the Formation of Trithiocarbonate and their Functions (Fac. Eng., Utsunomiya Univ.) ○UENO, Yuma; OBA, Toru; TAMESUE, Shingo
- 1F1-09*** Adhesive hydrogel system utilizing in-situ polymerization inside gel networks. (Grad. Sch. Eng., Utsunomiya Univ.) ○TAMESUE, Shingo
- 1F1-11** Alkylalilides for Mixed Molecular Gels (Center for liberal arts and sciences, Ashikaga University) ○OHSEDO, Yutaka

Chair: SEKI, Tomohiro (11 : 00~12 : 00)

- * 10:50-11:00: interval for laptop PC connection.(1F1-13, 1F1-15, 1F1-17, 1F1-18)
- 1F1-13**** Fabrication of the Liquid-Crystalline Polymer Film with Three-Dimensional Alignment Patterns by Scanning Wave Photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.) ○KOBAYASHI, Yoshiaki; AKAMATSU, Norihisa; SHISHIDO, Atsushi
- 1F1-15*** Design and Materials Application of Liquid Crystalline Emitters Based on Excited-State Intramolecular Proton Transfer Molecules (Grad. Sch. Eng., Kyoto Univ.; KIT) ○SAKURAI, Tsuneaki; ZHANG, Wanying; SUZUKI, Satoshi; YOSHIDA, Hiroyuki; WATANABE, Go; OZAKI, Masanori; SEKI, Shu
- 1F1-17** Surface Structure Formation and Molecular Alignment by Patterned Photopolymerization Induced Molecular Motion (Lab. Chem. Life Sci., Tokyo Tech.) ○HASHIMOTO, Sayuri; AKAMATSU, Norihisa; SHISHIDO, Atsushi
- 1F1-18** Fabrication of Uniaxially Aligned Polymer Films by Scanning Wave Photopolymerization and Evaluation of Mechanical Property (Lab. Chem. Life Sci., Tokyo Tech.) ○ARAI, Yuma; AKAMATSU, Norihisa; SHISHIDO, Atsushi

Sunday, March 22, PM

Chair: SHISHIDO, Atsushi (13 : 10~14 : 10)

- * 13:00-13:10: interval for laptop PC connection.(1F1-26, 1F1-29, 1F1-30, 1F1-31)
- 1F1-26** CSJ Award for Young Chemists Development of molecular crystals that respond to stimuli with retention of their structural orders (Grad. Sch. Eng., Hokkaido Univ.) ○SEKI, Tomohiro
- 1F1-29** Periphery Design of Macrocyclic Materials for Organic Light-Emitting Devices with a Blue Phosphorescent (Grad. Sch. Sci., Tohoku Univ.; Grad. Sch. Sci., The Univ. of Tokyo; ERATO, JST; KONICA MINOLTA, INC) ○YOSHII, Asami; IKEMOTO, Koki; IZUMI, Tomoo; TAKA, Hideo; KITA, Hiroshi; SATO, Sota; ISOBE, Hiroyuki
- 1F1-30** A molecular crystal of a gold complex exhibiting simultaneous luminescent and morphological changes (Grad. Sch. Eng., Hokkaido Univ.) ○FENG, Chi; SEKI, Tomohiro; TAKAMIZAWA, Satoshi; ITO, Hajime
- 1F1-31** Room-Temperature Long Lifetime Emission of a Non-aromatic Amino Acid Derivatives in Solid State (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○MASHIMO, Takaki; TAGUCHI, Jumpei; SEKI, Tomohiro; ONO, Yuriko; TAKETSUGU, Tetsuya; ITO, Hajime

Chair: ITO, Hajime (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(1F1-33, 1F1-36, 1F1-38)
- 1F1-33*** Young Scholar Lectures of CSJ Atomically thin two-dimensional polymers: synthesis and their functions (MANA, NIMS) ○MATSUMOTO, Michio
- 1F1-36**** Covalent Organic Framework Derived Materials for Electrical Energy Storage (RCMS, Nagoya Univ.) ○WU, Yang; YAN, Dongwan; KONDO, Taiga; AWAGA, Kunio
- 1F1-38** Aggregation-induced emission characteristics of tetraphenylethane derivatives (Sch. Sci., Hokkaido Univ.) ○KUBOTA, Miwa; TANAKA, Yuma; MACHIDA, Takashi; KOKADO, Kenta; SADA, Kazuki

Chair: TANAKA, Kazuo (15 : 30~16 : 10)

- * 15:20-15:30: interval for laptop PC connection.(1F1-40, 1F1-42, 1F1-43)
- 1F1-40**** Anthracene-based Gold(I) Isocyanide Complexes Exhibiting Thermo- and Photosensitive Effect (WPI-ICReDD, Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○KATO, Kenta; SEKI, Tomohiro; ITO, Hajime
- 1F1-42** Electrochemiluminescence device composed of DNA/Ru(bpy)₃²⁺ hybrid film modified electrode and anthracene derivative (Fac. Eng., Chiba Univ.) ○OZAWA, Ryuki; KOBAYASHI, Norihisa
- 1F1-43** Effect of addition of alkylammonium ion on luminescent property of composite film composed of hydrophobized DNA and chiral Eu(III) complex. (Fac. Eng., Chiba Univ.) ○KANEKO, Ren; KOBAYASHI, Norihisa

Chair: SADA, Kazuki (16 : 20~17 : 00)

- * 16:10-16:20: interval for laptop PC connection.(1F1-45, 1F1-46, 1F1-47, 1F1-48)
- 1F1-45*** Evaluation of Solid-state reaction using ONO-type ligand and development of functional materials (Grad. Sch. Eng., Kyoto Univ.) ○KATO, Taichi; GON, Masayuki; TANAKA, Kazuo
- 1F1-46** Design of strength hydrogel via cross-linking of intercalation (Fac. Eng., Utsunomiya Univ.) ○TERAI, Hajime; Ooba, Toru; TAMESUE, Sinngo
- 1F1-47** Development of a gel material, which self-heals even under the salty conditions, using intercalation properties of layered inorganic compounds (Fac. Eng., Utsunomiya Univ.) ○SAITO, Yushin; OBA, Toru; TAMESUE, Shingo
- 1F1-48** Pluripotent gel material via thiol-ene reaction (Fac. Eng., Utsunomiya Univ.) ○TSURUMAKI, Fumiya; OBA, Toru; TAMESUE, Shingo

Monday, March 23, AM

Low dimensional Materials

Chair: KUSADA, Kohei (9 : 00~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(2F1-01, 2F1-03)
- 2F1-01**** Fabrication of guaiazulene derivatives nanoparticles and their pharmacological activity (IMRAM, Tohoku Univ.) ○MARUOKA, Kiyotaka; TANITA, Keita; SUZUKI, Ryuju; KOSEKI, Yoshitaka; KASAI, Hitoshi
- 2F1-03**** Discrimination of unmethylated and methylated DNA using metal-oxide based nanowires (Grad. Sch. Eng., Nagoya Univ.) ○MUSA, Marina; YASUI, Takao; BABA, Yoshinobu

Monday, March 23, PM

Chair: YOSHIDA, Tomoko (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(2F1-25, 2F1-27, 2F1-29)
- 2F1-25**** Crystal structure control of Pt-Ru solid-solution alloy nanoparticles and their electrocatalytic performance (Fac. Sci., Kyoto Univ.) ○ZHANG, Quan; KUSADA, Kohei; WU, Dongshuang; YAMAMOTO, Tomokazu; MATSUMURA, Syo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi
- 2F1-27**** 6 Orders of Magnitude Control of Electrical Conductivity of Sb-Doped SnO₂ Nanowires via True Vapor-Liquid-Solid Process (Grad. Sch. Eng., Nagoya Univ.; IMCE, Kyushu Univ.) ○ZHU, Zetao; YASUI, Takao; NAGASHIMA, Kazuki; YANAGIDA, Takeshi; BABA, Yoshinobu
- 2F1-29**** Control of the photoluminescence property of single-walled carbon nanotubes by chemical functionalization and its subsequent transformation of functional groups (Fac. of Edu., Tokyo Gakuji Univ.) ○KONNO, Yui; YAMADA, Michio; MAEDA, Yutaka; PEI, Zhao; EHARA, Masahiro

Chair: OMACHI, Haruka (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(2F1-32, 2F1-33, 2F1-34, 2F1-35, 2F1-36)
- 2F1-32** Performance evaluation of energy storage media by surface modification of carbon nanotubes (Fac. Sci. Technol., TUS) ○IZUMI, Akihito; UTSUMI, Sigenori; KANEKO, Katsumi; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 2F1-33** Preparation of nanometer-sized gallium oxide as a photocatalyst using graphene oxide template (Fac. Eng., Osaka City Univ.) ○SONODA, Kenta; YAMAMOTO, Muneaki; TANABE, Tetsuo; YOSHIDA, Tomoko
- 2F1-34** The effect of halide acids addition on metal-supporting reaction onto TNS surface (Kawasaki Med. Sch.) ○YOSHIOKA, Daisuke; NISHIMURA, Yasumitsu
- 2F1-35** Fabrication of adhesive nanofibers by hot-press process and their characterization (Sch. Eng., Tokai Univ.) ○FUYAMA, Tadahiro; ISHIKURA, Kenichi; OKAMURA, Yosuke
- 2F1-36** Synthesis and formation mechanism of Co-Cu nanotube using alcohol reduction technique (Sch. Eng., The Univ. of Shiga Pref.) ○BALACANDRAN, Jeyadevan; ○ISHIJIMA, Masanao; JHON, Cuya; SUZUKI, Kazumasa; MIYAMURA, Hiroshi; PIQUEMAL, Jean-yves

Carbon Materials

Chair: FUJITA, Masahiro (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(2F1-38, 2F1-40, 2F1-41,

2F1-43)

- 2F1-38*** Aqueous two-phase extraction of semiconducting single-wall carbon nanotubes with isomaltodextrin and thin-film transistor applications (RCMS, Nagoya Univ.; Grad. Sch. Sci., Nagoya Univ.; Grad. Sch. Eng., Nagoya Univ.; IMASS, Nagoya Univ.; Hayashibara Co., Ltd.) ○OMACHI, Haruka; KOMURO, Tomohiko; MATSUMOTO, Kaisei; NAKAJIMA, Minako; WATANABE, Hikaru; HIROTANI, Jun; OHNO, Yutaka; SHINOHARA, Hisanori
- 2F1-40** Synthesis of Sulfur-functionalized Graphene and Battery Applications (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.; Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.; CICbiomaGUNE; Univ. of Trieste) ○INOUE, Tsukasa; OMACHI, Haruka; HATAO, Shuya; SHINOHARA, Hisanori; CRIADO, Alejandro; YOSHIKAWA, Hirofumi; SYRGIANNIS, Zois; PRATO, Maurizio
- 2F1-41*** Carbon fiber interface analysis of thermoplastic resin by molecular dynamics calculation (TUS; ITOCHU Techno-Solutions Corporation) ○MORI, Kazuki; YABE, Makoto; KOYANAGI, Jun
- 2F1-43** Synthesis and Optical Properties of Linked Systems of Porphyrin and Graphene Quantum Dot with Various Sizes (Grad. Sch. Eng., Kyoto Univ.) ○NAKATANI, Yosuke; UMEYAMA, Tomokazu; IMAHORI, Hiroshi

Ionic Liquids

Chair: UMEYAMA, Tomokazu (16 : 20~17 : 10)

- * 16:10-16:20: interval for laptop PC connection.(2F1-45, 2F1-47, 2F1-48, 2F1-49)
- 2F1-45#** A new sustainable approach towards the preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.) ○SINGH, Gurbir; KANG, Tejwant Singh; KOMAL, Komal; KAUR, Manvir; SINGH, Gagandeep
- 2F1-47** Tetra-cationic ionic liquids with tetra-branched structure (RCFM, NIMS) ○IKEDA, Taichi
- 2F1-48** Synthesis of solubility-switchable ionic liquids (Fac. Eng., Yamaguchi Univ.) ○YANAGISAWA, Keiya; KAWAMOTO, Takuji; FUJII, Kenta; KAMIMURA, Akio
- 2F1-49** Solubility of cellulose in hydrated ionic liquids and application to hydrogels (I -Effect of side chain length of cation on cellulose solubility- (Sci. Tec., Sophia Univ.) ○OURA, Yuki; TAKEOKA, Yuku; RIKUKAWA, Masahiro; FUJITA, Masahiro

Tuesday, March 24, AM

Hybrid Materials

Chair: TANAKA, Kazuo (9 : 10 ~10 : 00)

- * 9:00-9:10: interval for laptop PC connection.(3F1-02, 3F1-03, 3F1-04, 3F1-05, 3F1-06)
- 3F1-02** Synthesis and properties of polysiloxane using DQ hybrid monomer (Fac. Sci. Technol., TUS) ○SHIMODA, Tomoya; YAMAZUMOTO, Kazuki; GUNJI, Takahiro
- 3F1-03** Analysis of chemical reaction of silane coupling agent for bonding of CFRTP laminate through quantum chemical calculations (Grad. Sch. Fundamental Sci. Eng., Waseda Univ.) ○LI, Hongyu; OKAMOTO, Kazuki; HOSOI, Atsushi; KUNIOSHI, Nilson
- 3F1-04** Materials-informatics-assisted high-yield synthesis of 2D nanomaterials form layered organic-inorganic composites (Grad. Sch. Sci. Tech., Keio Univ.) ○NODA, Kyohei; IGARASHI, Yasuhiko; NAKADA, Gentoku; IMAI, Hiroaki; OAKI, Yuya
- 3F1-05** Materials-informatics-assisted size-distribution control of nanosheet materials. (Fac. Sci. Tech., Keio Univ.) ○HARAGUCHI, Yuri; IGARASHI, Yasuhiko; NAKADA, Gentoku; IMAI, Hiroaki; OAKI, Yuya
- 3F1-06** Synthesis and properties of polythiophene containing disiloxane unit in the side chain (Grad. Sch. Eng., Hiroshima Univ.) ○UEKI, Nao; IMATO, Keiichi; OYAMA, Yousuke; IMAE, Ichiro

Chair: YAMAMOTO, Kimihisa (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F1-08, 3F1-10, 3F1-12)
- 3F1-08#** Preparation of Bright-emissive Conjugated Polymer Hybrid Materials Based on Polyhedral Oligomeric Silsesquioxane (Grad. Sch. Eng., Kyoto Univ.) ○GON, Masayuki; SATO, Keita; TANAKA, Kazuo; CHUJO, Yoshiki
- 3F1-10#** Development of Fluorescence Sensors Based on Polyhedral Oligomeric Silsesquioxane Having Flexible Side-Chains (Grad. Sch. Eng., Kyoto Univ.) ○NARIKIYO, Hayato; GON, Masayuki; TANAKA, Kazuo
- 3F1-12#** Polymer Recognition Enabled by Coordination-driven Insertion into Metal-Organic Frameworks (Grad. Sch. Frontier Sci., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; CREST, JST) ○MANNA, Biplab; HOSONO, Nobuhiko; UEMURA, Takashi

Carbon Materials

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

- * 11:10-11:20: interval for laptop PC connection.(3F1-15, 3F1-17, 3F1-18, 3F1-19, 3F1-20)

- 3F1-15#** Salt-assisted pyrolysis of covalent organic frameworks to porous heteroatom-doped carbons for supercapacitive energy storage (Grad. Sch. Sci., Nagoya Univ.) ○YAN, Dongwan; WU, Yang; AWAGA, Kunio
- 3F1-17*** Determination of helicity of single-walled carbon nanotubes by atomic-resolution electron microscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○TOMOTSUKA, Issei; SHIMIZU, Toshiki; MAMIZU, Nobuya; FURUKAWA, Hiromitsu; HARANO, Koji; NAKAMURA, Eiichi
- 3F1-18** Chemical reactivity of graphite oxide partially reduced by hydrothermal treatment (Grad. Sch. Eng., Univ. of Hyogo) ○MATSUO, Yoshiaki; INAMOTO, Junichi
- 3F1-19** Theoretical study on Alkali metal atom intercalation into finite-size graphite (KIT) ○TAKAHASHI, Kohei; YUMURA, Takashi
- 3F1-20** Polymer grafting on graphene oxide via radicals, and property evaluation (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○HORI, Yuki; NISHINA, Yuta

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(13 : 20~13 : 30)

- 3F1-27#** Opening Remarks / Closing Remarks Opening Remarks (Nagoya Univ.) ○Seki, Takahiro (13:20~13:30)

Chair: Seki, Takahiro (13 : 30~14 : 40)

- 3F1-28#** Keynote Lecture Supramolecular hybrid nanomaterials based on molecular programming and nanoarchitecturing (Gwangju Inst. of Science and Technology) ○Lee, Eunji (13:30~14:00)
- 3F1-31#** Invited Lecture Chromonic Liquid Crystals as Dynamic Cross-Linkers in Hydrogels (Tokyo Univ. of Science) ○Le, Khoa V. (14:00~14:20)
- 3F1-33#** Invited Lecture Visible-light-responsive fluorescent nano/micro-structures (Kongju National Univ.) ○Han, Mina (14:20~14:40)

Chair: Kasai, Hitoshi (14 : 40~15 : 40)

- 3F1-35#** Invited Lecture Functional nanoporous materials with single-graphene walls (Tohoku Univ.) ○Nishihara, Hirotomo (14:40~15:00)
- 3F1-37#** Invited Lecture Development of Photoelectrochemical Localized Surface Plasmon Resonance Sensors (Nagoya Univ.) ○Akiyoshi, Kazutaka (15:00~15:20)
- 3F1-39#** Invited Lecture Vacuum Rabi Splitting in Molecular Chemistry: Modulation of Organic Reactions and Selective Crystallization of Metal-Organic Frameworks (Hokkaido Univ.) ○Hirai, Kenji (15:20~15:40)

Chair: Torimoto, Tsukasa (15 : 50~17 : 00)

- 3F1-42#** Keynote Lecture Semiconductor Nanoheterostructures for Photoconversion Applications (National Chiao Tung Univ.) ○Hsu, Yung-Jung (15:50~16:20)
- 3F1-45#** Invited Lecture Nano-structured photocatalysts for Z-scheme type water splitting under visible light (Kyoto Univ.) ○Suzuki, Hajime (16:20~16:40)
- 3F1-47#** Invited Lecture Improving Photoluminescence Properties of Cadmium-free Quantum Dots by the Optimization of Nanostructure (Osaka Univ.) ○Uematsu, Taro (16:40~17:00)

(17 : 00~17 : 10)

- 3F1-49#** Opening Remarks / Closing Remarks Closing Remarks (Kyushu Univ.) ○Katayama, Yoshiki (17:00~17:10)

Materials Chemistry

Wednesday, March 25, AM

Inorganic Materials

Chair: OAKI, Yuya (9 : 00 ~9 : 40)

- * 8:50-9:00: interval for laptop PC connection.(4F1-01, 4F1-02, 4F1-03, 4F1-04)
- 4F1-01** Synthesis and characteristics of zinc oxide / aluminum oxide precursor (Fac. Sci. Technol., TUS) ○OKADA, Takumi; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-02** Synthesis of indium and tin complexes and the preparation of ITO films using these compounds as precursors (Fac. Sci. Technol., TUS) ○NAKAMURA, Kotoe; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-03** Synthesis and properties of oligosiloxanes with unique structures (Fac. Sci. Technol., TUS) ○TSUKAGOSHI, Hayato; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-04#** Preparation of Colloidal Monodispersed Hollow Nanoparticles with Double Organosiloxane-based Shells (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.; IMASS, Nagoya Univ.) ○WATANABE, Tenkai; YAMAMOTO, Eisuke; WADA, Hiroaki; SHIMOJIMA, Atsushi; KURODA, Kazuyuki

Chair: SHIMOJIMA, Atsushi (9 : 50 ~ 10 : 50)

- * 9:40-9:50: interval for laptop PC connection.(4F1-06, 4F1-07, 4F1-08, 4F1-09, 4F1-10)
- 4F1-06** Preparation of polysilsesquioxane membrane with proton conductivity (Fac. Sci. Technol., TUS) ○FUJIOKA, Hiroshi; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-07** Development of octakis(dimethylsiloxy)octasilsesquioxane polymers with unsaturated bond in the spacer (Fac. Sci. Technol., TUS) ○IGUCHI, Ryosuke; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-08** Synthesis and Properties of Polynuclear Metal Complexes Based on Polyhedral Oligomeric Silsesquioxane (Grad. Sch. Eng., Kyoto Univ.) ○IZUKA, Daisuke; NARIKIYO, Hayato; GON, Masayuki; TANAKA, Kazuo
- 4F1-09** Liquid Phase Precise Synthesis of Bismuth Sub-nano Sized Particles and Their Optical Properties (Lab. Chem. Life Sci., Tokyo Tech.) ○HASEGAWA, Risaki; KAMBE, Tetsuya; HOSONO, Reina; TSUKAMOTO, Takamasa; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 4F1-10[#]** Effect of noble metal substitution on the photo-physical and magnetic properties of cyanido-bridged lanthanide compounds (Grad. Sch. Sci., The Univ. of Tokyo) ○KUMAR, Kunal; STEFANCZYK, Olaf; CHORAZY, Szymon; NAKABAYASHI, Koji; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi

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

- * 10:50-11:00: interval for laptop PC connection.(4F1-13, 4F1-14, 4F1-15, 4F1-16, 4F1-17, 4F1-18)
- 4F1-13[#]** Preparation of Self-healing Siloxane Networks Using Double Three-Ring Siloxanes (Grad. Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) ○MASAFUMI, Kishi; SATOSHI, Kodama; HIROAKI, Wada; KAZUYUKI, Kuroda; ATSUSHI, Shimojima
- 4F1-14** Synthesis and properties of coordination polymers consist of cage-silsesquioxane having β -diketonato groups (Fac. Sci. Technol., TUS) ○SATO, Yohei; HAYAMI, Ryohei; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-15** Analysis of interdimer reactions in Si crystal growth mechanism by CVD through chemical calculations (Sch. Creative Sci. Eng., Waseda Univ.) ○TAKEDA, Naoya; YAMAGUCHI, Katsunori; KUNIOSHI, Nilson
- 4F1-16** Synthesis and optical properties of gold nanocubes with side lengths over 200 nm (Fac. Sci., TUS) ○MATSUO, Hideaki; YOKOTA, Yukie; WATANABE, Kazuo
- 4F1-17** Synthesis and optical properties of Au nanorings supported on stacked Pd nanosheets (Fac. Sci., TUS) ○KODAMA, Ryosuke; FUJISAKI, Kanami; YOKOTA, Yukie; WATANABE, Kazuo
- 4F1-18** The observation of deposition process of silver nanoparticles on gallium oxide photocatalyst by in-situ UV-Vis diffuse reflectance measurements (Grad. Sch. Eng., Osaka City Univ.) ○KITAJIMA, Daiki; YAMAMOTO, Muneaki; TANABE, Tetsuo; YOSHIDA, Tomoko

Wednesday, March 25, PM

Chair: WATANABE, Kazuo (13 : 10~13 : 50)

- * 13:00-13:10: interval for laptop PC connection.(4F1-26, 4F1-27, 4F1-28, 4F1-29)
- 4F1-26** Efficient purification of seawater with scallop shell and titanium dioxide (Grad. Sch. Fac. Sci. Technol., TUS) ○NAKAMOTO, Wataru; SHUSEKI, Yuta; YAMAMOTO, Kazuki; GUNJI, Takahiro; TAKEUCHI, Ken
- 4F1-27** Preparation of flexible photoresponsive self-cleaning film (Fac. Sci. Technol., TUS) ○AIZAWA, Shun; NAKAMOTO, Wataru; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-28** Low temperature synthesis of barium titanate by precursar method (Fac. Sci. Technol., TUS) ○IIDA, Yoshito; YAMAMOTO, Kazuki; GUNJI, Takahiro
- 4F1-29** Preparation of zinc oxide-supported bulk porous silica and application to desulfurization agent (Fac. Sci. Technol., TUS) ○MORI, Kazuma; YAMAMOTO, Kazuki; GUNJI, Takahiro

Room F2 Lecture Hall Bldg. K502

Functions of Materials

Sunday, March 22, AM

Chair: TAMAOKI, Nobuyuki (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1F2-07, 1F2-08, 1F2-09, 1F2-10, 1F2-11, 1F2-12)
- 1F2-07** Morphological Change of Supramolecular Assembly Composed of Amphiphilic Diarylethene by Photoinduced Reentrant Transition and Thermal Stepwise Transition (Grad. Sch. Eng., Kyoto Univ.) ○KOTANI,

Yasunobu; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

- 1F2-08** Scale expansion and photoinduced transformation by depletion forces in sheet-like supramolecular structures of Diarylethenes (Grad. Sch. Eng., Kyoto Univ.) ○YASUDA, Haruka; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 1F2-09** Fluorescence Photoswitching of Water-soluble Fluorescent Diarylethene Nanoparticles in Organic Solvents (Kumamoto Univ.) ○ISIDA, Sanae; TANAKA, Yuya; KIM, Sunnam; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi
- 1F2-10** Spacer dependence of visible light photochromism in a perylenebisimide-diarylethene dyad (Kumamoto Univ.) ○IKARIKO, Issei; HIGASHIGUCHI, Kenji; HIROSE, Takashi; SOTOME, Hikaru; KIM, Sunnam; MATSUDA, Kenji; MIYASAKA, Hiroshi; KURIHARA, Seiji; FUKAMINATO, Tsuyoshi
- 1F2-11** Optical properties and thermal bleaching reactivity of 1,2-diarylbenzene with various heteroaromatic rings as the aryl position (Grad. Sch. Eng., Osaka City Univ.) ○HAMATANI, Shota; NAKAHAMA, Tatsumoto; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1F2-12** Evaluation of the β -value of the Diarylethene Annulated Isomer Unit by Probing Exchange Interaction between Biradicals (Grad. Sch. Eng., Kyoto Univ.) ○SUMIYA, Youki; HIGASHIGUCHI, Kenji; MATSUDA, Kenji

Chair: HIGASHIGUCHI, Kenji (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(1F2-14, 1F2-15, 1F2-16, 1F2-17, 1F2-18, 1F2-19)
- 1F2-14[#]** Glycomacrocycle-based azobenzene derivatives as chiral dopants for photoresponsive cholesteric liquid crystals (RIES, Hokkaido Univ.) KIM, Yuna; ○MAFY, Noushaba Nusrat; XIE, Joanne; MAISONNEUVE, Stéphane; TAMAOKI, Nobuyuki
- 1F2-15** Synthesis of a Curved Terarylene Derivative with a Corannulene Skeleton and its Photochromism (Grad. Sch. Mat. Sci., NAIST) ○SAWAZAKI, Tomoya; YAMADA, Mihoko; KAWAI, Tsuyoshi
- 1F2-16[#]** Actuation of salicylideneaniline crystal by heat and light (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HAGIWARA, Yuki; TANIGUCHI, Takuya; ASAH, Toru; KOSHIMA, Hideko
- 1F2-17[#]** Photomechanical Effect of Polymorphic Salicylideneaniline Crystals (Sch. Advanced Sci. Eng., Waseda Univ.) ○HASEBE, Shodai; HAGIWARA, Yuki; TANIGUCHI, Takuya; ASAH, Toru; KOSHIMA, Hideko
- 1F2-18** Luminescence Photoswitching of Perovskite Quantum Dots Hybridized with Diarylethene Derivatives (Fac. Eng., Kumamoto Univ.) ○MOKHTAR, Ashkan; MORINAGA, Ryuki; AKAISHI, Yuji; KIM, Sunnam; KURIHARA, Seiji; KIDA, Tetsuya; FUKAMINATO, Tsuyoshi
- 1F2-19** Negative Photochromism of the Optically Active Biphenanthrene-Bridged Imidazole Dimer (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MATSUURA, Keiki; MUTOH, Katsuya; ABE, Jiro

Sunday, March 22, PM

Chair: FUKAMINATO, Tsuyoshi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(1F2-28, 1F2-29, 1F2-30, 1F2-31, 1F2-32, 1F2-33)
- 1F2-28** Photochromism of a naphthalene-bridged imidazole dimer with a flipping conformation (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○ITO, Hiroki; MUTOH, Katsuya; ABE, Jiro
- 1F2-29** Photoswitching performance of turn-on mode fluorescent diarylethenes (Coll. Sci., Rikkyo Univ.) ○IWAI, Ryota; MORIMOTO, Masakazu; IRIE, Masahiro
- 1F2-30** synthesis of terarylene 6-mer and 7-mer based on cyclodextrine and their photo- and oxidation-isomerization (Grad. Sch. Mat. Sci., NAIST; École normale supérieure Paris PPSM) ○NISHI, Daichi; ASATO, Ryosuke; MAISONNEUVE, Stéphane; XIE, Joanne; YAMADA, Mihoko; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 1F2-31** Thermochromism of Fluorescent Diarylethene Derivatives through the Molecular Aggregation (Grad. Sch. Eng. Sci., Osaka Univ.) ○SHINMEN, Haruka; NAGASAKA, Tatsuhiro; SOTOME, Hikaru; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi
- 1F2-32** Photoinduced shape change of twin crystals composed of a diarylethene having undecyloxy group (Grad. Sch. Eng., Osaka City Univ.) ○HIGASHIGUCHI, Takuya; KITAGAWA, Daichi; KOBATAKE, Seiya
- 1F2-33** Relationships between the Rate of Radical Coupling Reactions and the Electronic Structures of Photoinduced Biradicals of PABI derivatives (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○NISHIJIMA, Moe; MUTOH, Katsuya; ABE, Jiro

Chair: MUTOH, Katsuya (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(1F2-35, 1F2-37, 1F2-39)
- 1F2-35[#]** Analysis of Cyclization Reaction from Higher Excited States of Diarylethene Derivatives Having a Substituted Azulene Ring (Fac. Sci. Tech., Ryukoku Univ.; Sch. Pharm., TUPLS; RCSTI) ○HATTORI, Yohei; SAWAE, Yumi; MAEJIMA, Tatsuya; KITAI, Jun-ichiro; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 1F2-37[#]** Driving the photoreaction of proteorhodopsin by azo derivatives (RIES, Hokkaido Univ.) ○HAQUE, Shariful; KIKUKAWA, Takashi; TAMAOKI, Nobuyuki

1F2-39[#] Catalytic Reactivity of Photo-Lewis-Acid Generators (PLAGs) Based on Tarylene (Grad. Sch. Mat. Sci., NAIST) ○MIZUTSU, Ryo; ASATO, Ryousuke; YAMADA, Miku; MARTIN, Colin; YAMADA, Mihoko; NAKASHIMA, Takuya; KAWAI, Tsuyoshi

Chair: KITAGAWA, Daichi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1F2-42, 1F2-44, 1F2-46, 1F2-47)

1F2-42[#] Photocontrol of the Valence Isomerization Process Between Biradical and Quinoidal Forms by Radical-Dissociation Type Photochromism of Phenoxyl-Imidazolyl Radical Complexes (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○MUTOH, Katsuya; ABE, Jiro

1F2-44[#] ThMn₁₂ Prototyped Pseudobinary Samarium-Iron Magnetic Materials (ICR, Kyoto Univ.) ○TRINH, T. Thuy; KIM, Jungyang; SATO, Ryota; HARUTA, Mitsutaka; KURATA, Hiroki; TERANISHI, Toshiharu

1F2-46 Secondary structure-dependent thermoelectric properties of semiconducting carbon nanotube films (Grad. Sch. Mat. Sci., NAIST; PRESTO, JST) TAKATA, Ami; KAWAI, Tsuyoshi; NONOGUCHI, Yoshiyuki

1F2-47 Enhancement of Thermoelectric Properties of a n-Type Carbon Nanotube by Addition of Corannulene (Grad. Sch. Mat. Sci., NAIST; PRESTO, JST) ○YAMADA, Mihoko; AOKI, Hiroyo; GOTO, Chigusa; NONOGUCHI, Yoshiyuki; KAWAI, Tsuyoshi

Monday, March 23, PM

Chair: ISHIDA, Tamao (13 : 00~14 : 00)

* 12:50-13:00: interval for laptop PC connection.(2F2-25, 2F2-26, 2F2-27, 2F2-28, 2F2-29, 2F2-30)

2F2-25 Synthesis and emission properties of ternary semiconductor quantum dot (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAKEMURA, Koki; IWAMOTO, Wakana; YAMAUCHI, Mitsuaki; MASUO, Sadahiro

2F2-26 Size-dependent Emission Behavior of Organometal Halide Perovskites (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KUROSE, Toma; YAMAUCHI, Mitsuaki; MASUO, Sadahiro

2F2-27[#] Investigation of Photo-degradation Induced Blue-shift in Single Perovskite Quantum Dots Using AFM and Single-particle Spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○DARMAWAN, Yoshua Albert; YAMAUCHI, Mitsuaki; MASUO, Sadahiro

2F2-28 Substituent Effects on Aggregation-Induced Room-Temperature Phosphorescence of Trinuclear Gold(I) Complexes (Coll. Life Sci., Ritsumeikan Univ.) ○YAMAGUCHI, Kenta; KURODA, Yuki; SATHYANARAYANA, Arruri; HISANO, Kyohei; TSUTSUMI, Osamu

2F2-29[#] Controlled Luminescence of gold (I) NHC coordination polymer (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SIDDHANT, Kumar; SATHYANARAYANA, Arruri; HISANO, Kyohei; TSUTSUMI, Osamu

2F2-30[#] Synthesis and application of photo-luminescent polymer dots doped with iridium complex (ISIR, Osaka Univ.) ○LIU, Zuoyue; OSAKADA, Yasuko

Chair: SUMARU, Kimio (14 : 10~15 : 10)

* 14:00-14:10: interval for laptop PC connection.(2F2-32, 2F2-33, 2F2-35, 2F2-37)

2F2-32 Molecularly imprinted polymer nanogels possessing albumin recognition capability prepared with dansylamide groups (Grad. Sch. Eng., Kobe Univ.) ○MORISHITA, Takahiro; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi

2F2-33^{*} Cellular interaction of molecularly imprinted polymer nanogels possessing serum albumin recognition property (Grad. Sch. Eng., Kobe Univ.) HAYAKAWA, Natsuki; ○KITAYAMA, Yukiya; YAMADA, Takuya; TAKEUCHI, Toshifumi

2F2-35[#] Growth Factor-Free Angiogenesis by Hydrophobically-modified Gelatin Hydrogel (RCFM, NIMS) ○MIZUNO, Yosuke; TAGUCHI, Tetsushi

2F2-37 Release Behavior of Drug Nanoparticles from Polymeric Films (IMRAM, Tohoku Univ.) ○SAITO, Nozomi; TAEMAITREE, Farsai; SUZUKI, Ryuju; KOSEKI, Yoshitaka; KASAI, Hitoshi

Chair: MASUO, Sadahiro (15 : 20~16 : 20)

* 15:10-15:20: interval for laptop PC connection.(2F2-39, 2F2-41, 2F2-42, 2F2-43)

2F2-39[#] Fabrication SN-38 Nano-Prodrugs and Their Anticancer Activity (IMRAM, Tohoku Univ.) ○KOSEKI, Yoshitaka; IKUTA, Yoshikazu; LIMAN, Cong; TAKANO-KASUYA, Mayumi; TADA, Hiroshi; WATANABE, Mika; GONDA, Kohsuke; ISHIDA, Takanori; OHUCHI, Noriaki; TANITA, Keita; TAEMAITREE, Farsai; DAO, Anh Thi Ngoc; ONODERA, Tsunenobu; OIKAWA, Hidetoshi; KASAI, Hitoshi

2F2-41 Photoinduced cytotoxicity of photochromic diarylethene derivatives: The relation between the thiazole ring in the molecule and the cytotoxicity (Grad. Sch. Sci. Tech., Ryukoku Univ.; BRD, AIST) ○NAKAGAWA, Yuma; SUMARU, Kimio; MORISHITA, Kana; KANAMORI, Toshiyuki; HYODO, Kengo; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo

2F2-42 Photochemical Properties of Tetravalent Cationic Porphyrins on Anionic Titania-nanosheet (Grad. Sch. Sci., TMU) ○HIRADE, Yugo; SHIMADA, Tetsuya; ISHIDA, Tamao; TAKAGI, Shinsuke

2F2-43[#] Rotation of polarized plane of electroluminescence from ferroelectric liquid crystalline semiconductor (Fac. Eng. Des., Kagawa Univ.) ○FUNAHASHI, Masahiro

Chair: FUNAHASHI, Masahiro (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(2F2-46, 2F2-48, 2F2-49, 2F2-50)

2F2-46[#] Nonlinear Optical Effect and Optical Limiting Behavior of Polymer Stabilized Dye-Doped Liquid Crystals Induced by a Collimated Laser Beam (Lab. Chem. Life Sci., Tokyo Tech.) ○MATSUMOTO, Kohsuke; USUI, Koji; AKAMATSU, Norihisa; SHISHIDO, Atsushi

2F2-48 Control of Molecular Alignment of Cholesteric Liquid Crystals by Photopolymerization (Coll. Life Sci., Ritsumeikan Univ.) ○YANAGIHARA, Maki; SUGIYAMA, Shohei; HISANO, Kyohei; TSUTSUMI, Osamu

2F2-49 Synthesis of Monodispersed Cholesteric-Liquid-Crystalline Microparticles and Control of Helical axis orientation (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○SHIGEYAMA, Tomoki; HISANO, Kyohei; TSUTSUMI, Osamu

2F2-50[#] Rational Design of Cholesteric Liquid Crystals Elastomers with Ordered Helical Structures for Opto-Mechanical Applications (Coll. Life Sci., Ritsumeikan Univ.) ○HISANO, Kyohei; KU, Kyosun; TSUTSUMI, Osamu

Tuesday, March 24, AM

Chair: SOTOME, Hikaru (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(3F2-07, 3F2-10, 3F2-11, 3F2-12)

3F2-07[#] CSJ Award for Outstanding Young Women Chemists Development of photo-functional nanomaterials with new properties and their application to bioscience (IACS, Osaka Univ.; ISIR, Osaka Univ.) ○OSAKADA, Yasuko

3F2-10[#] Creation of Highly Luminescent π -Conjugated Polymer Films with POSS-based Hybridization (Grad. Sch. Eng., Kyoto Univ.) ○SAOTOME, Satoru; GON, Masayuki; TANAKA, Kazuo

3F2-11 Construction of Photocontrollable Quantum Dot Supramolecular Assemblies (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YAMAMOTO, Seiya; YAMAUCHI, Mitsuaki; MASUO, Sadahiro

3F2-12 Crystallization-induced emission behavior in azobenzene derivatives (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YOKOYAMA, Kosuke; YAMAUCHI, Mitsuaki; MASUO, Sadahiro

Chair: TANAKA, Kazuo (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(3F2-14, 3F2-16, 3F2-18)

3F2-14[#] Photoresponsivity of emissive azobenzene crystals (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YAMAUCHI, Mitsuaki; MASUO, Sadahiro

3F2-16[#] Development of near-infrared-to-blue photon upconversion materials and its application to optogenetics (Grad. Sch. Eng., Kyushu Univ.; CBIR, Tokyo Med. and Dental Univ.; IMCR, Gunma Univ.; Grad. Sch. Arts and Sci., The Univ. of Tokyo; PRESTO, JST; CMS, Kyushu Univ.) ○SASAKI, Yoichi; OSHIKAWA, Mio; BHARMORIA, Pankaj; KOUNO, Hironori; HAYASHI-TAKAGI, Akiko; SATO, Moritoshi; AJIOKA, Itsuki; YANAI, Nobuhiro; KIMIZUKA, Nobuo

3F2-18[#] Cu₃AlSn₅ Based Thermoelectric Materials with Cu₂Sn₃ Nano-inclusions (Sch. Mat. Sci., JAIST) ○DWIVEDI, Pratibha; MIYATA, Masanobu; HIGASHIMINE, Koichi; TAKAHASHI, Mari; OHTA, Michihiro; KUBOTA, Korefumi; TAKIDA, Hiroshi; AKATSUKA, Takeo; MAENOSONO, Shinya

Wednesday, March 25, AM

Chair: YANAI, Nobuhiro (10 : 00~11 : 00)

* 9:50-10:00: interval for laptop PC connection.(4F2-07, 4F2-09, 4F2-10, 4F2-11, 4F2-12)

4F2-07[#] Extracellular vesicles derived microRNAs isolation and quantification using oxide nanowire devices (Grad. Sch. Eng., Nagoya Univ.) ○PAISRISARN, Piyawan; YASUI, Takao; BABA, Yoshinobu

4F2-09 Capture of Volatile Organic Compounds by a Crystalline Material based on Bis(benzimidazole)-coordinated Nickel Dichloride Complex (Grad. Sch. Sci. Tech., Hirosaki Univ.; Fac. Sci., Yamagata Univ.; Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○OHTA, Shun; MUKAI, Ryota; IWABUCHI, Yurika; ISHIZAKI, Manabu; TODA, Tomoyuki; KURIHARA, Masato; OKAZAKI, Masaaki

4F2-10 Investigation of the Recyclability of Titanate-Based Nanomaterial as Adsorbent for the Removal of Strontium Ion (Grad. Sch. Sci. Technol., Shinshu Univ.; Chubu Electric Power Co., Inc.) ○MORIOKA, Yuta; KARASAWA, Norikazu; SAITO, Teppi; ASAO, Naoki; TSUJI, Kenji; TABATA, Kunihito

4F2-11 Preparation and separation characteristics of CO₂ separation membranes from bridged alkoxysilanes with a urea group (Grad. Sch. Eng., Hiroshima Univ.) ○KAJIMURA, Kohei; OHSHITA, Joji

4F2-12 Fabrication of CO₂ separation membrane from amine-containing alkoxysilane (Grad. Sch. Eng., Hiroshima Univ.) ○OKONOGI, Takatoshi; OHSHITA, Joji

Chair: YAMADA, Mihoko (11 : 10~12 : 10)

* 11:00-11:10: interval for laptop PC connection.(4F2-14, 4F2-17, 4F2-18, 4F2-19)

4F2-14[#] Young Scholar Lectures of CSJ Design of multicomponent molecular crystals for light-emitting materials and optical sensors (Grad. Sch. Eng., Kyushu Univ.) ○ONO, Toshikazu**4F2-17** Triplet-triplet annihilation photon upconversion with sensitizer equipped with molecular anchors (IFMRI, AIST) ○FUKUUCHI, Risa; KAMADA, Kenji; TOYOSHIMA, Yuto; YOSHINAMI, Takumi; KOBAYASHI, Kenji**4F2-18** Multi-color emission property of Avobenzone BF₂ complex polymer (Grad. Sch. Eng., Osaka City Univ.; Fac. Edu., Shinshu Univ.) ○SHIMIZU, Katsuya; OKUMA, Arisa; KATSUMI, Shiho; ITO, Fuyuki; KOBATAKE, Seiya**4F2-19** Controlling chromophore arrangements in ionic liquids for NIR-to-visible photon upconversion (Grad. Sch. Eng., Kyushu Univ.) ○SEKI, Yuichiro; SASAKI, Yoichi; HISAMITSU, Shota; YANAI, Nobuhiro; KIMIZUKA, Nobuo

Room F3

Lecture Hall Bldg. K503

Coordination Chemistry, Organometallic Chemistry

Sunday, March 22, PM

Chair: OHBA, Masaaki (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1F3-23)

1F3-23[#] CSJ Award for Creative Works Study on low-dimensional molecular magnetics based on rational control of electronic and magnetic correlations (IMR, Tohoku Univ.) ○MIYASAKA, Hitoshi

Mn

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

* 13:40-13:50: interval for laptop PC connection.(1F3-30, 1F3-31, 1F3-32, 1F3-34, 1F3-35)

1F3-30 Magnetic property and structure of Quasi-One-Dimensional Halogen-Bridged Complexes with trigonal-bipyramidal magnetic counteranions (Grad. Sch. Sci., Tohoku Univ.; AIMR, Tohoku Univ.; Nankai Univ.) ○NAKAJIMA, Hirotsuka; YOSHIDA, Takefumi; IGUUCHI, Hiroaki; TAKAISHI, Shinya; YAMASHITA, Masahiro**1F3-31** Reduction of Oxo-bridged Manganese and Iron Multinuclear Complexes by *N,N'*-Bis(trimethylsilyl) dihydropyrazine Derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) ○TORII, Ryuya; TSURUGI, Hayato; MASHIMA, Kazushi**1F3-32[#]** Improvement of electrocatalytic CO₂ reduction in water using carbon material support (Toyota Central R&D Labs., Inc.) ○SATO, Shunsuke; SAITA, Kenichiro; SEKIZAWA, Keita; MAEDA, Satoshi; MORIKAWA, Takeshi**1F3-34** Photocatalytic substrate oxidation catalyzed by a diprotonated water-soluble saddle-distorted porphyrin as a photosensitizer (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; Grad. Sch. Eng., Hiroshima Univ.) ○HASHIMOTO, Muneaki; ISHIZUKA, Tomoya; KOTANI, Hiroaki; SADAKANE, Masahiro; KOJIMA, Takahiko**1F3-35[#]** Facile and reversible double dearomatization of pyridines in non-phosphine Mn(I) complexes with N-S-donor pyridinophane ligand (OIST) ○DINH, Hoan; PATIL, Pradnya; SARBAJNA, Abir; KHUSNUTDINOVA, Julia

Re

Chair: SEKIZAWA, Keita (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(1F3-37, 1F3-38, 1F3-39, 1F3-40, 1F3-41, 1F3-42)

1F3-37 Synthesis and Luminescent Properties of 1-D Ladder-type Re(V)-Ln(III) Complexes Having Two Types of Emission Centers (Grad. Sch. Sci., Kyushu Univ.) ○KAWAHARA, Keita; MIURA, Hiroki; OHTANI, Ryo; OHBA, Masaaki**1F3-38[#]** Emission Mechanism Switching of Luminescent Re(V) Complex via Ligand-exchange Reaction in Solid-gas Interface (Grad. Sch. Sci., Kyushu Univ.) ○SASAKI, Kenta; YAMATE, Hitomi; YOSHINO, Haruka; MIURA, Hiroki; OHTANI, Ryo; OHBA, Masaaki**1F3-39** Guest-Specific Vapochromic Luminescence of Crystalline Rhenium(II) Complexes Supported by a Pyridylthiazole Ligand (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○MATSUDA, Yuki; NAKAMURA, Ryota; TAHARA, Keishiro; OZAWA, Yoshiaki; ABE, Masaaki**1F3-40** Measurement of Redox Potentials of Catalyst Intermediates in Photocatalytic CO₂ Reduction by Using Hybrids of a Ring-shaped Re(II) Tetranuclear Complex and Polyoxometalates (Sch. Sci., Tokyo Tech.)

○TAKAHASHI, Maria; YAMAZAKI, Yasuomi; ASATANI, Tsuyoshi; MORIMOTO, Tatsuki; ISHITANI, Osamu

1F3-41 Development of supramolecular photocatalysts with a ring-shaped Re

(I) trinuclear complex as a photosensitizer unit. (Sch. Sci., Tokyo Tech.)

○TANIGUCHI, Takashi; FABRY, David; ISHITANI, Osamu

1F3-42 Mechanistic investigation of CO₂ reduction with a RuRe supramolecular photocatalyst by using time-resolved spectroscopies (Sch. Sci., Tokyo Tech.) ○KAMOGAWA, Kei; OZAWA, Kyouhei; KOIKE, Kazuhide; ISHITANI, Osamu

V, Cr

Chair: OZAWA, Tomohiro (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1F3-44, 1F3-45, 1F3-46, 1F3-47, 1F3-48, 1F3-49)

1F3-44 Synthesis of urea derivatives based on catalytic activation of carbon dioxide. (Grad. Sch. Sci., Osaka City Univ.) ○MATSUTANI, Takanari; DONAKA, Yosuke; ITAZAKI, Masumi; MORIUCHI, Toshiyuki**1F3-45** Withdrawn**1F3-46[#]** Synthesis and Dynamic Chiral Induction of Tetrahedral Oxo-Vanadium Complexes with a Chiral Metal Center (Grad. Sch. Sci., The Univ. of Tokyo) ○HINO, Ayako; NAGATA, Koichi; SHIONOYA, Mitsuhiko**1F3-47** Chiral recognition by redox-active tris dioxolane Cr(III) complex (Grad. Sch. Sci. Eng., Chuo Univ.) ○MIZUTANI, Tomohiro; NAKATA, Akinobu; CHANG, Ho-chol**1F3-48[#] In-situ** Measurement of the Thermal Properties of Nanoporous Metal Complexes with Large Pore Volumes upon Water Adsorption (Grad. Sch. Eng., Nagoya Univ.) ○KOYAMA, Mai; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro**1F3-49** Magnetic properties of polar 1D coordination polymers C₂[CrN(CN)₄] (C=K,Na) (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Grad. Sch. Sci., Kyushu Univ.) ○YANAGISAWA, Junichi; OHTANI, Ryo; OHBA, Masaaki; HAYAMI, Shinya

Mo, W

Chair: NAKADA, Akinobu (17 : 20~18 : 20)

* 17:10-17:20: interval for laptop PC connection.(1F3-51, 1F3-53, 1F3-54, 1F3-55)

1F3-51[#] Solvent-responsive magnets based on octacyanidometallates(V) (Grad. Sch. Sci., The Univ. of Tokyo) ○STEFANCZYK, Olaf; HECZKO, Michal; NOWICKA, Beata; OHKOSHI, Shin-ichi**1F3-53** Protonation to molybdenum nitride complex (Fac. Eng. Nagoya Inst. of Tech.) ○MAEDA, Sayaka; KATAYAMA, Akira; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki**1F3-54** Theoretical Study on Nitrogen Fixation Catalyzed by Dinitrogen-Bridged Dimolybdenum Complexes through A Shortcut Pathway (IMCE, Kyushu Univ.) ○EGI, Akihiro; TANAKA, Hiromasa; KONOMI, Asuka; NISHIBAYASHI, Yoshiaki; YOSHIZAWA, Kazunari**1F3-55[#]** Utilization of Isocyanide-based Ligands for the Construction of Conductive Coordination Frameworks (Sch. Sci., Tokyo Tech.) ○USOV, Pavel; OHTSU, Hiroyoshi; KAWANO, Masaki

Monday, March 23, AM

Co

Chair: SUNATSUKI, Yukinari (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[#] Water Molecule Induced Reversible Magnetic Switching in Mononuclear Cobalt(II) Complex (Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○KOBAYASHI, Fumiya; HAYAMI, Shinya**2F3-03** Color change of cobalt (II) complex crystals by tautomerism of ligands (Sch. Sci., Tokyo Tech.) ○TSUYUKI, Yohei; SUGIYAMA, Haruki; UEKUSA, Hidehiro**2F3-04** Synthesis of Hydroxamate-based Metal-organic Frameworks (Coll. Sci., Rikkyo Univ.) ○SUGAMATA, Koh; IIHAMA, Teruyuki; MINOURA, Mao**2F3-05** The synthesis of novel Metal Organic Frameworks used by a redox active dmbq analogue. (Sch. Sci., Tohoku Univ.) ○TANAKA, Haruki; TAKAISHI, Shinya; IGUUCHI, Hiroaki; YAMASHITA, Masahiro**2F3-06** Concentration-dependent valence tautomerism of trans-type cobalt dioxolene complexes (Grad. Sch. Sci. Eng., Chuo Univ.) ○KONISHI, Ryunosuke; KOSAKA, Wataru; MIYASAKA, Hitoshi; NAKADA, Akinobu; CHANG, Ho-chol

Chair: HAYAMI, Shinya (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F3-08, 2F3-10, 2F3-11, 2F3-13)

2F3-08[#] Field-induced Slow Magnetic Relaxation in Tetrahedral Cobalt(II) Complexes with Halide Donors (Kanazawa Univ.) ○MITSUHASHI, Ryoji; HOSOYA, Satoshi; SUZUKI, Takayoshi; SUNATSUKI, Yukinari; MIKURIYA, Masahiro

- 2F3-10** Cobalt(II) Spin-Crossover Complexes with Terpyridine-Based Bisnitroxide: Synthesis and Magnetic Properties (Grad. Sch. Sci., TUS) ○NAOI, Yuya; KANETOMO, Takuya; ENOMOTO, Masaya
- 2F3-11**[#] Withdrawn
- 2F3-13** Electro- and photochemical CO₂ reduction using a pentanuclear cobalt complex (Grad. Sch. Eng., Osaka Univ.; LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○AKAI, Takuya; LEE, Sze Koon; IZU, Hitoshi; ENOMOTO, Takafumi; OKAMURA, Masaya; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki

Chair: WADA, Tohru (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2F3-15, 2F3-16, 2F3-17, 2F3-19, 2F3-20)
- 2F3-15** Synthesis of diamide-type Co(III) complexes directed toward NO carrier and the electronic state of its NO adduct (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YAMAGUCHI, Ena; WASADA, Yuko; OZAWA, Tomohiro; INOMATA, Tomohiko; MASUDA, Hideki
- 2F3-16** Catalytic synthesis of NH₃ by using cobalt complex bearing new iminophosphorane ligands. (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YAGYU, Shintaro; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 2F3-17**[#] Advanced Reaction Analysis for Molecular Electrocatalysis in Multi-electron Reduction Processes (Fac. Sci., Kyushu Univ.; I²CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○YAMAUCHI, Kosei; KOGA, Toshihiro; KAWANO, Ken; SAKAI, Ken
- 2F3-19** Confirmation of the reaction intermediates of N₂O₂ type-Co(II) complexes with dioxygen and their oxidation reaction toward substrates (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○YOMURA, Shunsuke; SENGYOKU, Tomonori; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 2F3-20** Syntheses and characterization of nitrosyl Co(III) complexes with a N2S₃-type ligand (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○HATTORI, Yuri; MISHINA, Ritsuko; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Monday, March 23, PM

Chair: AKINE, Shigehisa (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2F3-28, 2F3-29, 2F3-30, 2F3-32)
- 2F3-28** Mechanistic Studies on the O-O bond formation in Water Oxidation Catalyzed by a Cobalt Polyoxometalate (Fac. Sci., Kyushu Univ.; I²CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○TAIRA, Natsuki; YAMAUCHI, Kosei; SAKAI, Ken
- 2F3-29** Hydrogen Evolution Catalyzed by Co-NHC Complexes Having a Pendant Pyridine (Fac. Sci., Kyushu Univ.; I²CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○WAKAFUJI, Yasunobu; YAMAUCHI, Kosei; SAKAI, Ken
- 2F3-30**[#] Exploration of Hydrogen generation reaction with porphycene cobalt complexes 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
- 2F3-32**[#] Efficient Photocatalytic CO₂ Reduction in Fully Aqueous Media Driven by Cu-photosensitizer with a Series of Cobalt Porphyrin Catalysts (Fac. Sci., Kyushu Univ.) ○ZHANG, Xian; CALL, Arnau; YAMAUCHI, Kosei; SAKAI, Ken

Chair: TAKEBAYASHI, Satoshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2F3-35, 2F3-37, 2F3-39, 2F3-40)
- 2F3-35**[#] Water Oxidation Catalysis of Dinuclear Cobalt Complexes with Doubly N-Confused Hexaphyrin (Grad. Sch. Sci., Rikkyo Univ.) ○NAKAZONO, Takashi; SUGAWARA, Daichi; AMINO, Nagisa; WADA, Tohru
- 2F3-37**[#] Substituent Effect on Four-Electron Oxygen Reduction Catalyzed by Dinuclear Cobalt Polypyridyl Complexes (Grad. Sch. Sci., Rikkyo Univ.) ○ARIMA, Hiroaki; NAKAZONO, Takashi; WADA, Tohru
- 2F3-39** Dethreading of Axle Molecule by Addition of Amines to Rotaxanes Having a Dinuclear Cobalt(III) Macrocyclic (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.; NanoLSI, Kanazawa Univ.) ○YAMAMOTO, Misato; SAKATA, Yoko; AKINE, Shigehisa
- 2F3-40** Synthesis and properties of cobalt (II) complexes using thiolato ligands (Grad. Sch. Sci. Eng., Ibaraki Univ.; NIT, Ibaraki College) ○OHIRA, Kazunari; AGOU, Tomohiro; TADOKORO, Shun; KOMATSUZAKI, Hidehito; TANAKA, Yuya; AKITA, Munetaka; HIKICHI, Shiro

Chair: INOMATA, Tomohiko (15 : 50~17 : 10)

- * 15:40-15:50: interval for laptop PC connection.(2F3-42, 2F3-44, 2F3-45, 2F3-46, 2F3-48)
- 2F3-42**[#] Stabilization of aqueous first-row transition-metal-hydroxo clusters by coordination with 1,4,7-triazacyclononane complexes (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○SUGIARTO, Sugiarto; KAZAKAMI, Shota; IMAI, Yuya; KAWAMOTO, Keisuke; HAYASHI, Yoshihito
- 2F3-44** Synthesis strategy for mononuclear/nonanuclear Cobalt complexes (Fac. Sci., Fukuoka Univ.) ○MATSUDA, Yutaro; ONO, Daiji;

HAMAGUCHI, Tomohiko

- 2F3-45**[#] Synthesis of coordination networks with multi-interactive ligands and their applications (Sch. Sci., Tokyo Tech.) ○WADA, Yuki; OHTSU, Hiroyoshi; KAWANO, Masaki
- 2F3-46**[#] Isolation and Reactivity Study of 17-electron Metalloradical [Co(NHC)(CO)₃] (OIST) ○TAKEBAYASHI, Satoshi
- 2F3-48**[#] Anion-Regulated Mixed-Valency of Cobalt(II/III) Centers in Non-Coulombic Ionic Crystals (Grad. Sch. Sci., Osaka Univ.) ○YOSHINARI, Nobuto; HASHIMOTO, Akari; NAKANO, Motohiro; KONNO, Takumi

Tuesday, March 24, AM

C, Si, Sn

Chair: SAGA, Yutaka (9 : 20~10 : 00)

- * 9:10-9:20: interval for laptop PC connection.(3F3-03, 3F3-04, 3F3-05, 3F3-06)
- 3F3-03** Transcription of Chirality from a Metal-Organic Framework to Polycyclic Aromatic Hydrocarbon (Fac. Eng., The Univ. of Tokyo) ○NADA, Yusuke; KITAO, Takashi; UEMURA, Takashi
- 3F3-04** Thermal synthesis of aluminosilicate materials from a multinuclear silicon and aluminum complex (Fac. Sci. Eng., Chuo Univ.) ○IMAIZUMI, Akira; NAKADA, Akinobu; CHANG, Ho-chol
- 3F3-05** Preparation of Stannylene-nitrene Complexes Bearing Bulky Phenylendiamine Ligands (Grad. Sch. Eng., Osaka Univ.) ○YANO, Mayuka; SUGIMOTO, Hideki; ITOH, Shinobu
- 3F3-06** Synthesis and Evaluation of the Novel Sn-S Metal-Organic Frameworks (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○FUJISAWA, Satoshi; KAMAKURA, Yoshinobu; HAMANO, Ryo; WAKIYA, Takuma; TANAKA, Daisuke

Chair: MASAOKA, Shigeyuki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F3-08, 3F3-11, 3F3-13)
- 3F3-08**[#] CSJ Award for Young Chemists Design and Application of Porous Coordination Materials with Dynamic Functions (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○HOSONO, Nobuhiko

Os

- 3F3-11**[#] C(sp³)-H Bond Oxidation by Anion Adducts of Osmium Tetroxide (Grad. Sch. Eng., Osaka Univ.) ○FUJIMOTO, Tomohiro; SUGIMOTO, Hideki; ITOH, Shinobu
- 3F3-13** Immobilization of OsO₄ on Mesoporous Silica and Its Catalytic Activity in Alkane Hydroxylation (Sch. Eng., Osaka Univ.) ○UEDA, Yuta; SUGIMOTO, Hideki; HIKICHI, Shiro; ITOH, Shinobu

Os, Ru

Chair: KOTANI, Hiroaki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F3-15, 3F3-16, 3F3-17, 3F3-18, 3F3-20)
- 3F3-15** Preparation and Reactivity of Osmium-aqua and Osmium-amine Complexes Having a Metal-carbon Bond. (Sch. Eng., Osaka Univ.; Sch. Eng., Osaka Univ.) ○SAKAIDA, Megumu; SUGIMOTO, Hideki; ITOH, Shinobu
- 3F3-16** Synthesis and self-assembly of a Ru trinuclear complex with arene-perfluoroarene interaction sites (Graduate school of engineering, Osaka University; Grad. Sch. Eng., Osaka Univ.) ○TOMIYASU, Ryo; IWAMI, Hikaru; FUJISAWA, Mayu; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
- 3F3-17** Development of Light-Driven Organic Reactions Catalyzed by a Ru Complex with Light-Harvesting and Substrate-Activation Abilities (Grad. Sch. Eng., Osaka Univ.) ○NAKAYAMA, Yusuke; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
- 3F3-18**[#] Syntheses and characterization of ruthenium complexes bearing 2-(2-Pyridyl)-1H-imidazole[4,5-b]pyridine ligand (Fac. Sci., Hokkaido Univ.) ○FUJII, Sho; TANIOKA, Erina; MIURA, Atsushi; UENO, Kosei
- 3F3-20**[#] Investigation of the oxidation mechanism of hydrocarbons by ruthenium tetroxide (Osaka Univ.) KAMIJO, Yuto; ○SUGIMOTO, Hideki; ITOH, Shinobu

Tuesday, March 24, PM

Chair: MASAOKA, Shigeyuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3F3-28)
- 3F3-28**[#] CSJ Award for Creative Works Study on proton-coupled electron transfer in metal complexes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○KOJIMA, Takahiko

Ru

Chair: TANAKA, Yuya (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** Development of hybrid photocatalysts for CO₂ reduction consisting of a novel Ru(II) binuclear complex and semiconductors (Sch. Sci., Tokyo

- Tech.) ○MURAKOSHI, Riho; TAMAKI, Yusuke; HAGA, Masa-aki; MAEDA, Kazuhiko; ISHITANI, Osamu
- 3F3-36** Photocatalytic CO₂ Reduction Catalyzed by a Ru Complex Bearing a Hexadentate Ligand Composed of Three Bipyridine Derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; IRC3, AIST) ○KAWANISHI, Takuya; HONG, Dachao; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 3F3-37** Theoretical Study on Correlation between Substituents and Frontier Orbital Energies of Tris(2,2'-bipyridine) Ruthenium(II) Complex by Multivariate Analysis (Sch. Eng. Sci., Osaka Univ.) ○SATO, Hiromasa; IKENAGA, Kazuki; TADA, Hayato; ERA, Iori; FUJII, Takuya; KITAGAWA, Yasutaka; NAKANO, Masayoshi
- 3F3-38** One-pot photoisomerization synthesis of dinuclear ruthenium aquo complexes for development of efficient water oxidation catalysts (Grad. Sch. Sci. and Technol., Niigata Univ.) ○YOSHIDA, Kazuha; KANEKO, Keitaro; SATO, Taisei; MOHAMEDO, Eman; TSUBONOUCHI, Yuuta; ZAHARAN, Zaki; SAITOU, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 3F3-39** Synthesis of a diruthenium μ -carbido complex by the reduction of a μ -chloromethylidene complex (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SEKI, Koichi; TAKAO, Toshiro
- 3F3-40** Synthesis and Reactivity of a Cationic Triruthenium Hydrido Complex Supported by Cp and Arene Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Hidenori; TAKAO, Toshiro

Chair: KOTANI, Hiroaki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3F3-42, 3F3-43, 3F3-44, 3F3-45, 3F3-47)
- 3F3-42** Preparations and Reactivities of Dinuclear Ruthenium Complexes Bridged by Sulfur Oxides and Oxyanions (Grad. Sch. Eng., Nagasaki Univ.) ○YOSHIDA, Kenshiro; TSUJITA, Yusuke; ARIKAWA, Yasuhiro; HORIUCHI, Shinnosuke; SAKUDA, Eri; UMAKOSHI, Keisuke
- 3F3-43** Synthesis and evaluation of metal-metal interaction of polynyl-diruthenium molecular wire (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ○SUZUKI, Keita; TANAKA, Yuya; AKITA, Munetaka
- 3F3-44** Synthesis and properties of organometallic molecular wires with PN ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.) ○OKAMOTO, Aki; TANAKA, Yuya; AKITA, Munetaka
- 3F3-45^{##}** On-demand installation of metal ions into multinuclear metal complexes for precise control over their redox behaviors (Grad. Sch. Eng., Osaka Univ.; LCCMS, IMS; Sch. Physical Sci., SOKENDAI; Fac. Sci., Fukuoka Univ.) ○IZU, Hitoshi; OKAMURA, Masaya; LEE, Sze Koon; TOMODA, Misa; AKAI, Takuya; PRANEETH, Vijayendran; KAWATA, Satoshi; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
- 3F3-47** Key factors for determining formation yields of one-electron reduced metal-complex photosensitizers in the photo-induced electron transfer reactions (Sch. Sci., Tokyo Tech.) ○OZAWA, Kyohei; TAMAKI, Yusuke; KOIKE, Kazuhide; ISHITANI, Osamu

Chair: YUI, Tatsuto (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3F3-49, 3F3-51)
- 3F3-49^{##}** Syntheses and Redox Behaviors of Ruthenium Complexes Having Non-innocent Diimine Ligand (Sci. Tec., Sophia Univ.) ○TOMIOKA, Nozomi; MISAWA, Tomoyo; NAGAO, Hirotaka
- 3F3-51^{##}** Photocatalytic CO₂ Reduction Using RuRe and RuRu Supramolecular Photocatalysts Immobilized on Solid Surface (Sch. Sci., Tokyo Tech.) ○SAITO, Daiki; ISHITANI, Osamu

Wednesday, March 25, AM

Chair: MASAOKA, Shigeyuki (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4F3-01, 4F3-03, 4F3-05)
- 4F3-01^{##}** Mechanisms of pH-dependent activity for water oxidation by dinuclear ruthenium catalysts on carbon electrodes (Grad. Sch. Sci. and Technol., Niigata Univ.) ○TSUBONOUCHI, Yuta; HAYASAKA, Taichi; WAKAI, Yuki; SATO, Taisei; MOHAMED, Eman; ZAHARAN, Zaki; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 4F3-03^{##}** Insights into the Electron Transfer from Ru(IV)=O to Ce(IV) in Relation to Ruthenium-catalyzed Water Oxidation (Fac. Sci., Kyushu Univ.; I²CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○AIMOTO, Yutaro; PARENT, Alexander; YAMAUCHI, Kosei; SAKAI, Ken
- 4F3-05^{##}** Reactions of a doubly oxido- and a carbonato-bridged diruthenium complex in aqueous solutions accompanied by pH changes (Sci. Tec., Sophia Univ.) ○MISAWA, Tomoyo; NAGAO, Hirotaka

Chair: NAGAO, Hirotaka (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4F3-08, 4F3-10, 4F3-12, 4F3-13)
- 4F3-08^{##}** Redox photosensitizer using ruthenium(II) complexes toward wide-band absorption by S-T transitions (Sch. Sci., Tokyo Tech.) ○TAMAKI, Yusuke; ISHITANI, Osamu
- 4F3-10^{##}** Flexible tuning of the electronic state by chemical doping in one-dimensional chain frameworks showing neutral-ionic phase transition (IMR, Tohoku Univ.) ○KOSAKA, Wataru; DU, Yinan; MIYASAKA, Hitoshi
- 4F3-12** Single-molecule conductance measurements of ruthenium organome-

- tallic molecular wires with thioether anchor groups (Sch. Mater. & Chem. Tech., Tokyo Tech.; Lab. Chem. Life Sci., Tokyo Tech.; Sch. Sci., Tokyo Tech.) ○YASHIRO, Atsushi; TANAKA, Yuya; FUJII, Shintaro; AKITA, Munetaka
- 4F3-13** Synthesis and property of organometallic molecular wires with the paddle-wheel-shaped diruthenium skeleton (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OGAWA, Shiori; CHATTOPADHYAY, Swarup; TANAKA, Yuya; AKITA, Munetaka

Chair: TAMAKI, Yusuke (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(4F3-15, 4F3-16, 4F3-17, 4F3-18)
- 4F3-15** Reactions of Oxido-bridged Diruthenium(III, IV) Complex Having Chlorido Ligands with Lewis bases (Sci. Tec., Sophia Univ.) ○OKAMURA, Mariko; MISAWA, Tomoyo; NAGAO, Hirotaka
- 4F3-16** Synthesis and Properties of the Ru Complex including the NAD⁺ Model Ligand Ph-pn (Fac. Sci., Univ. of Toyama; Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama; Grad. Sch. Sci. Eng., Univ. of Toyama) ○IIDA, Takuro; SAITO, Tsubasa; TSUGE, Kiyoshi; OHTSU, Hideki
- 4F3-17** Specific Clathration of a Proton in Heterometallic Pentanuclear Complexes (Grad. Sch. Eng., Osaka Univ.; Sch. Physical Sci., SOKENDAI) ○TOMODA, Misa; IZU, Hitoshi; KANAIKE, Mari; OKAMURA, Masaya; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
- 4F3-18** Structures and Photoluminescence Properties of Ruthenium Terpyridyl Units Encapsulated in the Narrow Cavities (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Sci., Osaka Univ.) ○YAMANAKA, Wataru; ASANO, Kyohei; HARA, Kanae; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro

Room F4 Lecture Hall Bldg. K504

Inorganic Chemistry

Sunday, March 22, AM

Syntheses and Reactions

Chair: KOBAYASHI, Hirokazu (9 : 40 ~ 10 : 40)

- * 9:30-9:40: interval for laptop PC connection.(1F4-05, 1F4-08, 1F4-10)
- 1F4-05[#]** Young Scholar Lectures of CSJ Superatom synthesis and typical metal assembly using a dendrimer template (IIR, Tokyo Tech.) ○KAMBE, Tetsuya
- 1F4-08^{##}** Formation entropies of MgH₂ and PdH_x calculated from spectroscopic entropy and the consistency between them and experimentally calculated entropies (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○SHIMIZU, Yoshihiro; SHIRAI, Kenshiro; OHYANAGI, Manshi
- 1F4-10** The reactivity of an isolable silanone with small molecules (Grad. Sch. Sci., Tohoku Univ.) ○KOBAYASHI, Ryo; ISHIDA, Shintaro; IWAMOTO, Takeaki

Chair: YAMAMOTO, Eisuke (10 : 50~11 : 20)

- * 10:40-10:50: interval for laptop PC connection.(1F4-12, 1F4-13, 1F4-14)
- 1F4-12** [1+2] Cycloaddition Reaction of a Cyclic (Alkyl)(amino)silylene to a Si≡Si Triple Bond (Grad. Sch. Sci., Tohoku Univ.) ○KOIKE, Taichi; ISHIDA, Shintaro; IWAMOTO, Takeaki
- 1F4-13** Low temperature synthesis of inorganic materials using the water-assisted solid-state reaction method (Grad. Sch. Sci. and Technol., Niigata Univ.) ○TODA, Kenji
- 1F4-14[#]** Appearance of novel nanostructured material by solid solution alloying of Ru and Sn (Dep. Chem., Sch. Sci., Kyoto Univ.; Dep. Chem., Sch. Sci., Kyoto Univ.) ○DOKO, Yuki; KOBAYASHI, Hirokazu; TORIYAMA, Takaaki; YAMAMOTO, Tomokazu; MATSUMURA, Sho; KAWAGUSHI, Shogo; KUBOTA, Yoshiki; KITAGAWA, Hiroshi

Sunday, March 22, PM

Layered Materials and nanosheets

Chair: SHIMOJIMA, Atsushi (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1F4-25, 1F4-27, 1F4-29)
- 1F4-25^{##}** Bottom-up preparation of ceria based nanosheet and evaluation of their ionic conductivity (IMaSS, Nagoya Univ.) ○YAMAMOTO, Eisuke; HAYASHI, Kohei; KOBAYASHI, Makoto; OSADA, Minoru
- 1F4-27^{*}** Atomic scale imaging of a free-standing monolayer clay mineral nanosheet by aberration corrected scanning transmission electron microscopy (Grad. Sch. Eng., Hokkaido Univ.) ○ISHIDA, Yohei; AKITA, Ikumi; YONEZAWA, Tetsu
- 1F4-29^{##}** Salt 2.0: Vapor-Liquid-Solid Growth of Transition Metal Dichalcogenides (ICYS, NIMS) ○LI, Shisheng

Chair: TANAKA, Katsuhisa (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1F4-32, 1F4-34, 1F4-36, 1F4-37)
- 1F4-32**** Synthesis of transition metal hydroxide nanosheets with double-layer structure (MANA, NIMS) CHEN, Fashen; LIU, Xiaoho; OMA, Renzhi; SASAKI, Takayoshi
- 1F4-34**** Development of electrocatalysts for water splitting on nickel hydroxide platform (Grad. Sch. Sci. & Tech., Kumamoto Univ.) OSHUDO, Yuta; HAYAMI, Shinya
- 1F4-36** Morphology of layered inorganic-imidazoline covalently bonding hybrids (RCFM, NIMS; NIMSTEMS; NIMSMaterAnalSt) OFUJII, Kazuko; KURASHIMA, Keiji; HASHIZUME, Hideo; TAKENOUCHI, Satoshi; SHIMOMURA, Shuichi; WAKAHARA, Takatsugu; ANDO, Toshihiro
- 1F4-37** Synthesis of layered nickel hydroxide grown anisotropically along the stacking direction using amine ligands (Sch. Advanced Sci. Eng., Waseda Univ.; Kagami Memorial Research Inst. Materials Sci. Tech., Waseda Univ.) OJIMBA, Mina; MURAMATSU, Keisuke; YAMADA, Yumiko; WADA, Hiroaki; SHIMOJIMA, Atsushi; KURODA, Kazuyuki

Chair: HAYAMI, Shinya (15 : 20~16 : 00)

- * 15:10-15:20: interval for laptop PC connection.(1F4-39, 1F4-40, 1F4-41, 1F4-42)
- 1F4-39** Synthesis of Rhodium Oxide Nanosheet (Fac. Sci. & Tech., Meiji Univ.) OSAIDA, Takahiro; SUZUKI, Daisuke; MASHIYAMA, Miyu; MARUYAMA, Takahiro

Carbon and boron sheets

- 1F4-40** Electrical conduction characteristics of a borophene analog synthesized liquid phases (Lab. Chem. Life Sci., Tokyo Tech.) OTAYA, Hinayo; KANBE, Tetsuya; HOSONO, Reina; YAMAMOTO, Kimihisa
- 1F4-41** Functional liquid crystal of a borophene analog (Lab. Chem. Life Sci., Tokyo Tech.) OSHIMIZU, Misa; KAMBE, Tetsuya; HOSONO, Reina; IMAOKA, Shotaro; YAMAMOTO, Kimihisa
- 1F4-42** Dielectric properties of a borophene-like boron layered material (Lab. Chem. Life Sci., Tokyo Tech.) OYAMASHITA, Takuya; KAMBE, Tetsuya; HOSONO, Reina; IINO, Hiroaki; HANNA, Junichi; YAMAMOTO, Kimihisa

Monday, March 23, PM

Syntheses and properties of inorganic compounds/ Solid state chemistry

Chair: TANAKA, Katsuhisa (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(2F4-23, 2F4-25, 2F4-27)
- 2F4-23**** How to discover new electrides (IMCE, Kyushu Univ.) OTSUJI, Yuta; HASHIMOTO, Wataru; HORI, Mikiya; YOSHIZAWA, Kazunari
- 2F4-25*** Structural and physical properties of A-site-layer-ordered perovskite $YBa_2Fe_3O_9$ with unusually high valence Fe ion (ICR, Kyoto Univ.) OGOTO, Masato; SHIMAKAWA, Yuichi
- 2F4-27**** Unusual Field-dependent Magnetism of Square-planar Iron(II) Centres in $CaFe_3Ti_4O_{12}$ (ICR, Kyoto Univ.) OAMANO, Midori; DENIS ROMERO, Fabio; GOTO, Masato; SAITO, Takashi; ORLANDI, Fabio; PASCAL, Manuel; ATTFIELD, Paul; SHIMAKAWA, Yuichi

Chair: YAMAMOTO, Eisuke (13 : 50~15 : 00)

- * 13:40-13:50: interval for laptop PC connection.(2F4-30, 2F4-31, 2F4-33, 2F4-35)
- 2F4-30** Large latent heat in inter-site charge transfer transition of $NdCu_3Fe_4O_{12}$ (Dep. Chem., Sch. Sci., Kyoto Univ.) OKOSUGI, Yoshihisa; GOTO, Masato; SAITO, Takashi; SHIMAKAWA, Yuichi
- 2F4-31**** Structural and Magnetic Studies of ABO_4 type Ruthenium and Osmium Oxides (ICR, Kyoto Univ.; Sch. Chem. Univ. Of Sydney) OINJAC, Sean; AVDEEV, Maxim; KENNEDY, Brendan
- 2F4-33**** Re-entrant Spin glass behavior of $TmFe_2O_{4.5}$ (Grad. Sch. Eng., Kyoto Univ.) OKIM, Youjin; KONISHI, Shinya; TANAKA, Katsuhisa
- 2F4-35**** Crystal structures and Li-ion conductivity in antiperovskite Li_2OHX (X = Cl, Br) (ICR, Kyoto Univ.) OKOEDTRUAD, Anucha; AMANO, Midori; GOTO, Masato; ICHIKAWA, Noriya; KAN, Daisuke; SHIMAKAWA, Yuichi

Porous Compounds

Chair: UCHIDA, Sayaka (15 : 10~16 : 20)

- * 15:00-15:10: interval for laptop PC connection.(2F4-38, 2F4-39, 2F4-40, 2F4-42, 2F4-43)
- 2F4-38** Preparation of Cs^+ exchanged forms of GTS-type Na titanosilicate and their cation distributions (Grad. Sch. Sci. Tech., Yamaguchi Univ.) OFUJIWARA, Keiko; KAWATA, Naomi; NAKATSUKA, Akihiko
- 2F4-39** Photocatalytic activity of mesoporous TiO_2 thin film with pseudo-single crystal framework (Res. Inst. Sci. Technol., TUS) OSUZUKI, Norihiro; TERASHIMA, Chiaki; NAKATA, Kazuya; KATSUMATA, Ken-ichi; FUJISHIMA, Akira
- 2F4-40*** Pore size variation of mesoporous alumina powders on a spray drying

condition (IFMRI, AIST) OWAKABAYASHI, Ryutaro; KIMURA, Tatsuo

Polyoxometalate

- 2F4-42** Molecule recognition for alcohol molecules of U_{10} (Sch. Sci., Hokkaido Univ.) OYAMASHITA, Masato; MISHIMA, Kota; KOKADO, Kenta; SADA, Kazuki
- 2F4-43**** A Crystal Flask Composed of Huge Cage-of-Cage Metallosupramolecules (Grad. Sch. Sci., Osaka Univ.) OKOJIMA, Tatsuhiro; WAHYUDIANTO, Benny; KONNO, Takumi

Tuesday, March 24, AM

Cluster compound

Chair: SUGAHARA, Yoshiyuki (9 : 30 ~10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3F4-04, 3F4-05, 3F4-07, 3F4-09)
- 3F4-04** Oxidation of Alkenes Catalyzed by Multi-elemental Subnano Particles (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) OKOIZUMI, Hiromu; TANABE, Makoto; YAMAMOTO, Kimihisa
- 3F4-05*** Reactivity and structural analysis of subnano copper oxide catalysts (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) OSONOBE, Kazutaka; TANABE, Makoto; YAMAMOTO, Kimihisa
- 3F4-07**** Synthesis of platinum alloy sub-nanoparticles using metal inclusion complexes as precursors (Lab. Chem. Life Sci., Tokyo Tech.; JST-ERATO) OKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa
- 3F4-09** Precision compounding and cluster synthesis of gallium / platinum using the dendritic polymer (Lab. Chem. Life Sci., Tokyo Tech.) OLI, Meijia; KAMBE, Tetsuya; ARAI, Yuki; TSUKAMOTO, Takamasa; IMAOKA, Takane; YAMAMOTO, Kimihisa

Radiochemistry, nuclear chemistry

Chair: TANAKA, Katsuhisa (10 : 40~11 : 00)

- * 10:30-10:40: interval for laptop PC connection.(3F4-11, 3F4-12)
- 3F4-11** Measurement of adsorption enthalpies of lanthanides on a high temperature metal surface (ASRC, JAEA) TOKOI, Katsuyuki; OSATO, Tetsuya; KIKUCHI, Kei; ASAI, Masato; ITO, Yuta; SUZUKI, Hayato; TSUKADA, Kazuaki; NAGAME, Yuichiro
- 3F4-12** On-line Isothermal Gas Chromatographic Behaviour of Oxochlorides of Group-5 Elements, Nb, Ta, and Db (ASRC, JAEA; Grad. Sch. Sci. Eng., Ibaraki Univ.) OSATO, Tetsuya; CHIERA, Nadine M.; TOMITSUKA, Tomohiro; TOKOI, Katsuyuki; SUZUKI, Hayato; ITO, Yuta; ASAI, Masato; SHIRAI, Kaori; INOUE, Hiroki; ADACHI, Sadia; KASHIHARA, Ayuna; MAKII, Hiroyuki; HIROSE, Kentaro; NISHIO, Katsuhisa; NAGAME, Yuichiro; WATANABE, Eisuke; SAKAMA, Minoru; GOTO, Shin'ichi; TSUKADA, Kazuaki

Asian International Symposium - Inorganic Chemistry / Coordination Chemistry and Organometallic Chemistry -

Tuesday, March 24, PM

Chair: Tanaka, Katsuhisa (13 : 00~14 : 10)

- 3F4-25* Keynote Lecture** Defect structures and oxide ion migration mechanisms in tetrahedra-based oxide ion conductors (Guilin Univ. of Technology) OKuang, Xiaojun (13:00~13:30)
- 3F4-28* Invited Lecture** Hydrogen and oxygen manipulation in complex oxides (Kyoto Univ.) OLi, Hao-Bo (13:30~13:50)
- 3F4-30* Invited Lecture** Design of liquid/glassy states of metal-organic frameworks for ion transport (Kyoto Univ.) OHorike, Satoshi (13:50~14:10)
- Chair: Osada, Minoru (14 : 10~15 : 00)
- 3F4-32* Keynote Lecture** Hybrid two dimensional layered nanocomposites: fabrication and properties (Tsinghua Univ.) OWan, Chunlei (14:10~14:40)
- 3F4-35* Invited Lecture** Control of redox bistability in one-dimensional MX-type coordination polymers (Tohoku Univ.) OTakaishi, Shinya (14:40~15:00)

Chair: Yamada, Teppei (15 : 10~15 : 50)

- 3F4-38* Invited Lecture** Polyoxometalate based zeolitic transition metal oxides for gas molecule adsorption and separation (Ningbo Univ.) OZhang, Zhenxin (15:10~15:30)
- 3F4-40* Invited Lecture** Electronic state modulation of magnetic sponge upon solvents and gases (Tohoku Univ.) OZhang, Jun (15:30~15:50)

Chair: Miyasaka, Hitoshi (15 : 50~16 : 40)

- 3F4-42* Invited Lecture** Functional design of metal-sulfide-based architectures for electrochemical water splitting (Waseda Univ.) OGuo, Yanna (15:50~16:10)

3F4-44[#] Keynote Lecture Molecular Perovskite High-Energetic Materials (Sun Yat-Sen Univ.) ○Zhang, Wei-Xiong (16:10~16:40)

Inorganic Chemistry

Wednesday, March 25, AM

Polyoxometalate

Chair: HAYASHI, Yoshihito (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4F4-01, 4F4-03, 4F4-04, 4F4-05, 4F4-06)

4F4-01[#] Assembly Synthesis of Silver Nanoclusters Using Polyoxometalates (Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Arts and Sci., The Univ. of Tokyo; Rigaku Corp.) ○YONESATO, Kentaro; ITO, Hiroyasu; ITAKURA, Hiroyuki; YOKOGAWA, Daisuke; KIKUCHI, Takashi; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-03 Synthesis of Alloy Nanoclusters Using Ring-Shaped Polyoxometalate (Grad. Sch. Eng., The Univ. of Tokyo) ○OKAZAKI, Takashi; YONESATO, Kentaro; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-04 Synthesis of Manganese-oxo Clusters Using Ring-Shaped Polyoxometalates (Grad. Sch. Eng., The Univ. of Tokyo) ○SATO, Kai; YONESATO, Kentaro; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-05 Synthesis and structural characterization of Preyssler-type phosphotungstate with one europium cation (Grad. Sch. Eng., Hiroshima Univ.; Newcastle University) ○SHITAMATSU, Kota; WADDELL, Paul; ERRINGTON, John; TSUNOJI, Nao; SANO, Tsuneji; SADAKANE, Masahiro

4F4-06 High Proton Conduction in Crystalline Composites Based on Lanthanide Ion Interacted Preyssler-type Polyoxometalate and Poly(allylamine) (Grad. Sch. Arts and Sci., The Univ. of Tokyo; Grad. Sch. Eng., Hiroshima Univ.) ○IWANO, Tsukasa; SHITAMATSU, Kota; SADAKANE, Masahiro; UCHIDA, Sayaka

Chair: YOKOGAWA, Daisuke (10 : 10~11 : 30)

* 10:00-10:10: interval for laptop PC connection.(4F4-08, 4F4-09, 4F4-10, 4F4-11, 4F4-12, 4F4-13, 4F4-15)

4F4-08 Rare-earth element encapsulated Preyssler-type polyoxometalate/poly(allylamine) crystalline proton conductor. (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○AKUTSU, Daiki; UCHIDA, Sayaka

4F4-09 Synthesis of Multinuclear Manganese Clusters Using Keggin-Type Trivacant Lacunary Phosphomolybdate (Grad. Sch. Eng., The Univ. of Tokyo) ○JIMBO, Atsuhiko; LI, Chifeng; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-10 Development of Fluorous Biphasic Polyoxometalate Catalysts for Selective Aerobic Oxidation of Light Alkanes (Grad. Sch. Eng., The Univ. of Tokyo) ○KOIZUMI, Yoshihiro; YABE, Tomohiro; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-11 Incorporation of Silver into Pore of Porous Ionic Crystal via Electron Transfer (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○OKUNAGA, Tomoki; UCHIDA, Sayaka

4F4-12 Incorporation of Silver into Isolated Pore of Porous Ionic Crystal via Electron Transfer (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○HARAGUCHI, Naoya; UCHIDA, Sayaka

4F4-13[#] Visible-Light-Induced Selective Aerobic Oxygenation of Sulfides to Sulfoxides and Sulfones by Decavanadate Photocatalyst (Grad. Sch. Eng., The Univ. of Tokyo) ○LI, Chifeng; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

4F4-15 Photocatalytic Reduction of Carbonyl Compounds by Visible-Light-Responsive Polyoxometalate Catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○SANO, Hiroki; MIZUNO, Noritaka; SUZUKI, Kosuke; YAMAGUCHI, Kazuya

Wednesday, March 25, PM

Chair: SUZUKI, Kosuke (12 : 40~13 : 30)

* 12:30-12:40: interval for laptop PC connection.(4F4-23, 4F4-25, 4F4-26, 4F4-27)

4F4-23[#] Homogeneous catalytic reduction of Dawson-type polyoxometalate by H₂ with a hydrogenase model complex (Grad. Sch. Eng., Kyushu Univ.) ○MINATO, Takuo; MATSUMOTO, Takahiro; OGO, Seiji

4F4-25 Reduction-induced uptake of cesium ions utilizing crown-ether pores of a polyoxometalate capsule (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAMAI, Nanako; UCHIDA, Sayaka

4F4-26 Synthesis and Catalysis of a Polyoxovanadate with Reactive Oxygen Species (Inst. Sci. Eng., Kanazawa Univ.) ○KURIMOTO, Yushi; KIKUKAWA, Yuji; HAYASHI, Yoshihito

4F4-27 Synthesis of a Bowl-type Polyoxovanadate with an Unstable Anion (Inst. Sci. Eng., Kanazawa Univ.) ○KITAJIMA, Hiromasa; KIKUKAWA, Yuji; HIROTA, Takuya; HAYASHI, Yoshihito

Chair: SUZUKI, Kosuke (13 : 40~14 : 00)

* 13:30-13:40: interval for laptop PC connection.(4F4-29, 4F4-30)

4F4-29 Conformation Control of Circular Polyoxovanadates by Addition of Cation Species (Inst. Sci. Eng., Kanazawa Univ.) ○KAWAKAMI, Atsushi; KIKUKAWA, Yuji; HAYASHI, Yoshihito

4F4-30 Surface modification of Rh/SiO₂ with mono-vanadium-substituted silicotungstate (Grad. Sch. Eng., Tohoku Univ.) ○KUWATA, Ayaka; NAKAGAWA, Yoshinao; TAMURA, Masazumi; TOMISHIGE, Keiichi

Room F5

Lecture Hall Bldg. K505

Organic Chemistry -Reaction and Synthesis-Aromatic Compounds

Sunday, March 22, AM

Chair: ENDOU, Kouhei (11 : 00~12 : 00)

* 10:50-11:00: interval for laptop PC connection.(1F5-13, 1F5-14, 1F5-15, 1F5-16, 1F5-17, 1F5-18)

1F5-13 Synthesis and properties of thiophene-fused ladder-type heteroboranes (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KOIKE, Jumpei; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio

1F5-14 Synthesis and Properties of π -Extended Azaborines by Utilizing C-H Activation Reactions (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○NAGATA, Masakazu; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio

1F5-15 Asymmetric boration of α, β -unsaturated carbonyl compounds using novel bipyridine-urea ligands (Grad. Sch. Sci., Rikkyo Univ.) ○TAGUCHI, Rika; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro

1F5-16 Synthesis and properties of boron complexes of bis(1-azaazulen-2-yl) amine (Grad. Sch. Fac. Sci. Technol., TUS) ○CHISHIMA, Tatsuya; YAMAMOTO, Kazuki; GUNJI, Takahiro

1F5-17 Nucleophilic Diboration of Alkynes towards Boron-doped Polyaromatic Hydrocarbons (Grad. Sch. Pharm., The Univ. of Tokyo; Elements Chem. Lab., RIKEN; RISM, Shinshu Univ.) ○MORIMOTO, Kensuke; FUJIOKA, Shota; HIRANO, Keiichi; UCHIYAMA, Masanobu

1F5-18 Synthesis of Subnaphthalocyanines Bearing Perfluoroalkyl Groups (Ibaraki Univ.) ○KANNO, Yasunori; SUZUKI, Seima; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio

Sunday, March 22, PM

Chair: AGO, Tomohiro (13 : 10~14 : 10)

* 13:00-13:10: interval for laptop PC connection.(1F5-26, 1F5-27, 1F5-28, 1F5-29, 1F5-30, 1F5-31)

1F5-26 Synthesis of dicyclobutabenzopentalenes (Grad. Sch. Sci. Tech., Kansei Gakuin Univ.) ○UEDA, Kosuke; HAMURA, Toshiyuki

1F5-27 Tandem cyclization of silyl-substituted homocinnamyl alcohol and aromatic aldehyde (Sch. Adv. Eng., Kogakuin Univ.) ○MOTOFUMI, Inukai; SAKATA, Yuki; YASUI, Eiko; NAGUMO, Shinji

1F5-28 Iodocyclization of Tetraaryl[3]cumulenes to Construct Benzofulvenes (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) YAGISHITA, Fumitoshi; ○HOSHI, Keita; KAWAMURA, Yasuhiko

1F5-29 Synthesis of Cyclohexadiene Derivatives via [2+2]-Cycloaddition of Cyclopropenes (Grad. Sch. Sci., TUS) ○KISHIDA, Satoshi; IJIMA, Shoichiro; ENDO, Kohei

1F5-30 Synthesis and Properties of Organic Semiconducting Materials Derived from Two Types of Naphthothiophenes (Grad. Sch. Sys. Eng., Wakayama Univ.) ○AMANO, Nana; OSUGA, Hideji; HASHIDUME, Ayano; SAKAMOTO, Hidehumi

1F5-31 Synthesis of Cyclic Trimer by Condensation of *N*-Alkylaminobenzoic Acid Bearing Bromo and Methyl Groups and Its Intramolecular Biarylation for Synthesis of Coronene Analogue (Fac. Sci. and Technol., Seikei Univ.) ○FUJII, Miho; OHISHI, Tomoyuki; YOKOYAMA, Akihiro

Chair: TSUTSUMI, Ryosuke (14 : 20~15 : 20)

* 14:10-14:20: interval for laptop PC connection.(1F5-33, 1F5-34, 1F5-35, 1F5-36, 1F5-38)

1F5-33 Synthesis of Highly Functionalized Triptycne Based on Ynolate-Aryne Triple Cycloaddition. (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○IWATA, Takayuki; FUKAMI, Takuto; SHINDO, Mitsuru

1F5-34 Synthesis of Chiral Triptycenes using Consecutive Reduction-Cyclization-Suzuki Reaction via 1,5-Pd-migration. (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○KUMAGAI, Satoru; YOSHINAGA, Tatsuro; IWATA, Takayuki; SHINDO, Mitsuru

1F5-35 Oxidative Debenzylation of *N*-Benzylanilines Using DMSO as Oxidant (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○YOSHINAGA, Tatsuro; IWATA, Takayuki; SHINDO, Mitsuru

1F5-36* Facile Synthesis of Diverse Aromatic Compounds through Sequential Aryne Generations (Tokyo Med. and Dental Univ.) ○YOSHIDA, Suguru; HAZAMA, Yuki; NAKAJIMA, Hana; SAKATA, Yuki; UCHIDA, Keisuke; HOSOYA, Takamitsu

1F5-38 Acylalkylation of Arynes Generated from *o*-iodoaryl triflate (IBB,

Tokyo Med. and Dental Univ.) ○MINOSHIMA, Mai; UCHIDA, Keisuke; NAKAMURA, Yu; HOSOYA, Takamitsu; YOSHIDA, Suguru

Chair: IWATA, Takayuki (15 : 30~16 : 30)

* 15:20-15:30: interval for laptop PC connection.(1F5-40, 1F5-41, 1F5-42, 1F5-43, 1F5-44, 1F5-45)

1F5-40 Multicomponent Reaction of Aryne by using Anthranilic Acid as Aryne Precursor (Fac. Sci., Fukuoka Univ.) ○QU, Yuxuan; FUJIE, Nonoka; NAGAHORA, Noriyoshi; SHIOJI, Kosei; OKUMA, Kentaro

1F5-41 H/D Exchange Reaction of Aromatic Compounds under Hydrothermal Condition of Deuterium Oxide (Grad. Sch. Eng., Kyoto Univ.; IRC3, AIST) ○UMEMURA, Tomomi; MATSUBARA, Seijiro; YADA, Akira; SATO, Kazuhiko; ISHIHARA, Tsukasa

1F5-42[#] The development of tolvactan manufacturing process: unexpected solvent effect on acylation reaction with acid chloride (TOWA PHARMACEUTICAL CO., LTD.) ○SOGO, Hideyuki; ONO, Naoki; SUKEGAWA, Junpei; YASUDA, Nobuyoshi; INAKOSHI, Naoto

1F5-43 O-Alkenylation of phenols with trialkenyl bismuth (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○MAEZAWA, Yuto; SATO, Itaru

1F5-44 Azidation of phenol using azido imidazolium salt (Grad. Sch. Eng., KIT) ○ETO, Takashi; KONAI, Kazushige; TAKAHASHI, Shuhei; SHIMOOKA, Hirokazu; OKAUCHI, Tatsuo; KITAMURA, Mitsuru

1F5-45 Copper(II)-Bisamidine-Catalyzed Asymmetric Friedel-Crafts Reactions between Indoles and β, γ -Unsaturated α -Ketoesters (Coll. Sci., Rikkyo Univ.) ○TSUTSUMI, Ryo; HASEBE, Tomoki; NAMBU, Mizuki; YAMANAKA, Masahiro

Chair: OKAUCHI, Tatsuo (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(1F5-47, 1F5-48, 1F5-49, 1F5-50, 1F5-51, 1F5-52)

1F5-47[#] Ag(I) and Pd(II)-Catalyzed Friedel-Crafts-type Allylic Substitution of Phenol Derivatives (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○ECE, Hamdiye; YURINO, Taiga; OHKUMA, Takeshi

1F5-48 Cu-catalyzed robust functionalization of aromatic compounds (Grad. Sch. Pharm., The Univ. of Tokyo) ○WATANABE, Kohei; TAKAGI, Mio; WATANABE, Ayako; MURATA, Shigeo; TAKITA, Ryo

1F5-49 Reductive Dearylation of N-aryl Pyrroles by Using Sodium Metal (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NISHI, Junichiro; KAGA, Atsushi; NOGI, Keisuke; YORIMITSU, Hideki

1F5-50 Aromatic Metamorphosis of Thiophenes Based on Reductive Dilithiation with Lithium Metal (Dep. Chem., Sch. Sci., Kyoto Univ.) ○KAGA, Atsushi; NOGI, Keisuke; YORIMITSU, Hideki

1F5-51 Synthesis of *meta*-substituted anilines from *para*-substituted pyridines through the ring opening of pyridine (Fac. Sci., Gakushuin Univ.) ○INAGAWA, Kota; MOROFUJI, Tatsuya; KANO, Naokazu

1F5-52 Development of spiroguanidination with dearomatization of phenols using hypervalent iodine reagent (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○OKUDA, Kazuma; ISHIDUKA, Hayate; ADACHI, Kanna; ODAGI, Minami; NAGASAWA, Kazuo

Monday, March 23, AM

Chair: UCHIKURA, Tatsuhiro (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2F5-01, 2F5-02, 2F5-03, 2F5-04, 2F5-05, 2F5-06)

2F5-01 Regioselective Introduction of Fluorinated Functional Groups into N-Containing Six-Membered Heteroaromatic Compounds (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○NARAYAMA, Koji; MUTA, Ryuhei; TORIGOE, Takeru; KUNINOBU, Yoichiro

2F5-02 Regioselective C-H Trifluoromethylation of Amino Acids (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○SONG, Jizhou; TORIGOE, Takeru; KUNINOBU, Yoichiro

2F5-03 Iron-catalyzed Regioselective C-H Trifluoromethylation of Aromatic Compounds Using Cyclodextrin (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○LU, Xu; TORIGOE, Takeru; KUNINOBU, Yoichiro

2F5-04 Synthesis of Soluble Fluorine-containing Aromatic Compounds Using Mallory Reaction (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○NOMURA, Takano; GOTSU, Othiro; FUKUMOTO, Hiroki; AGOU, Tomohiro; KUBOTA, Toshio

2F5-05 Synthesis of Iridium Complexes with Fluorinated 4-Azaphenanthrene Ligand (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○KARUBE, Genji; SATOMI, Akira; FUKUMOTO, Hiroki; AGOU, Tomohiro; KUBOTA, Toshio

2F5-06 The Reaction of *O*-Phenyl Esters with (Trifluoromethyl)trimethylsilane Initiated by Fluoride-ion (Grad. Sch. Eng., Osaka Univ.) ○TAKAHASHI, Kenjiro; ANO, Yusuke; CHATANI, Naoto

Chair: TORIGOE, Takeru (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2F5-08, 2F5-09, 2F5-10, 2F5-11, 2F5-12, 2F5-13)

2F5-08 Radical Reactions using Tetrafluoroethanesulfonic Acid (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NOGUCHI, Kohki; KAWAMOTO, Takuji; KAMIMURA, Akio

2F5-09 Synthesis of β -trifluoromethyl benzyl amine (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○IKAWA, Keisuke; AOYAMA, Kohei; KAWAMOTO, Takuji; KAMIMURA, Akio

2F5-10 Trifluoromethylation using Trifluoromethanesulfonic Anhydride (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○YAMASAKI, Tetsushi; MII, Junya; KAWAMOTO, Takuji; KAMIMURA, Akio

2F5-11 Synthesis of *N*-vinyl pyridone using Acetophenone Derivatives (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○IKEDA, Shunya; KAWAMOTO, Takuji; KAMIMURA, Akio

2F5-12 Copper-Catalyzed Trifluoromethylation by Use of Benzimidazole Derivatives (Fac. Sci., Gakushuin Univ.) ○KAMIYAMA, Nanami; UCHIKURA, Tatsuhiro; AKIYAMA, Takahiko

2F5-13 Chain elongation reaction with a fluoromalonic acid unit and application to fluorinated polyketide synthesis (IIS, The Univ. of Tokyo) ○YORICHIKA, Mitsuaki; AKAGAWA, Kengo; KUDO, Kazuaki

Chair: HAMURA, Toshiyuki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2F5-15, 2F5-16, 2F5-17, 2F5-18, 2F5-19)

2F5-15 Remote substituent effect on a radical fluoroalkylation reaction of *N*-allyl arylamides and selective synthesis of fluoroalkylated phenethylamines (Syn. Org. Chem. Lab., RIKEN) ○MITANI, Yusuke; KAWAMURA, Sintaro; SEKINE, Daisuke; SODEOKA, Mikiko

2F5-16 Synthesis and reactions of nucleophilic monofluoromethyl building blocks. (Grad. Sch. Sci. Tech., Gunma Univ.) ○HAGA, Yuto; TAGAMI, Yuta; SUGIISHI, Tsuyuka; AMII, Hideki

2F5-17[#] Photoredox-catalyzed decarboxylative cross-coupling of aryl halides and glycine (Grad. Sch. Sci., Nagoya Univ.) ○JUNG, Jaehyun; SAKAKIBARA, Yota; MURAKAMI, Kei; ITAMI, Kenichiro

2F5-18 Photoinduced C-H arylation of arylamine (Grad. Sch. Sci., Nagoya Univ.) ○MAEDA, Bumpei; MORI, Genki; SAKAKIBARA, Yota; YAGI, Akiko; MURAKAMI, Kei; ITAMI, Kenichiro

2F5-19[#] Synthesis of benzoate esters with photoredox catalyst (Grad. Sch. Sci., Nagoya Univ.) ○SAKAKIBARA, Yota; MURAKAMI, Kei; ITAMI, Kenichiro

Monday, March 23, PM

Chair: MURAKAMI, Kei (13 : 40~14 : 40)

* 13:30-13:40: interval for laptop PC connection.(2F5-29, 2F5-30, 2F5-31, 2F5-32, 2F5-33, 2F5-34)

2F5-29 Pd-Catalyzed Direct Arene-Alkene Coupling for Ladder-Type Acenes (Sch. Sci., Tohoku Univ.) ○MATSUYAMA, Hidenori; JIN, Tienan; TERADA, Masahiro

2F5-30 Synthesis of poly-functionalized aromatic compounds using epoxyacenequinone (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○WADA, Yoshifumi; KANZAKI, Masayoshi; HAMURA, Toshiyuki

2F5-31 Synthesis of isocoumarin using mechanochemical reaction (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KANZAKI, Masayoshi; WADA, Yoshifumi; HAMURA, Toshiyuki

2F5-32 Study on the synthesis of 5,11-tetracenophane (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○OZAKI, Tomoki; SOGA, Eri; KITAMURA, Kei; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; HAMURA, Toshiyuki

2F5-33 Regioselective synthesis of substituted tetracenes by using unsymmetrical isobenzofuran (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○SOGA, Eri; OZAKI, Tomoki; HAMURA, Toshiyuki

2F5-34 Synthesis of substituted acenes using anthrone derivatives (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○INAOKA, Kosuke; ADACHI, Kazuhiko; HAMURA, Toshiyuki

Chair: TSURUSAKI, Akihiro (14 : 50~15 : 50)

* 14:40-14:50: interval for laptop PC connection.(2F5-36, 2F5-37, 2F5-38, 2F5-39, 2F5-40, 2F5-41)

2F5-36 Mechanochemical Synthesis of Polyacene Derivatives (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○HOSHINO, Sota; JUNG, Sunna; HAMURA, Toshiyuki

2F5-37 Synthesis of Benzoacene Oligomers through Annulative Dimerization (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST) ○URYU, Mizuhito; HIRAGA, Taito; MURAKAMI, Kei; ITAMI, Kenichiro

2F5-38 Intramolecular Bond Formation Between Two Naphthalene Units for Synthesis of Helicene Analogue (Fac. Sci. and Technol., Seikei Univ.) ○USAMI, Runo; OHISHI, Tomoyuki; YOKOYAMA, Akihiro

2F5-39 Synthesis of chiral Diaza[9]helicene (Grad. Sch. Eng., Tokyo Denki Univ.) ○OTAKE, Shuhei; MIYASAKA, Makoto

2F5-40 Conversion of Aromatic Oligoamide Synthesized from 4-Alkylamino-benzoic Acid Derivatives Into [7]Helicene Analogues by Palladium-catalyzed Intramolecular Bond Formation (Fac. Sci. and Technol., Seikei Univ.) ○SHIMODA, Hirotaka; OHISHI, Tomoyuki; YOKOYAMA, Akihiro

2F5-41[#] The Renaissance of 4,5-Diphenylphenanthrene (WPI-ITbM, Nagoya Univ.) ○LI, Yuanming; YAGI, Akiko; ITAMI, Kenichiro

Chair: MIYASAKA, Makoto (16 : 00~17 : 00)

* 15:50-16:00: interval for laptop PC connection.(2F5-43, 2F5-45, 2F5-47, 2F5-48)

2F5-43[#] Synthesis, Structures, and Theoretical Studies of Hexapole Helicene Bearing Six [5]Helicene Substructures (Grad. Sch. Sci., Osaka Pref. Univ.) ○HOSOKAWA, Tomoka; ASADA, Toshio; TSURUSAKI, Akihiro; KAMIKAWA, Ken

- 2F5-45[#]** Vanadium Complex-catalyzed Enantioselective Synthesis of Hetero[9] helicenes and Their Physical Properties (ISIR, Osaka Univ.) ○SAKO, Makoto; KUMAR, Ankit; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2F5-47** Synthesis of Propeller-Shaped Isobenzoheteroles (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○NAKASHI, Ryota; JUNG, Sunna; HAMURA, Toshiyuki
- 2F5-48** Synthesis, structure, and properties of the macrocyclic dimeric complex of 1,8-bis[(2-dodecylamino)prop-5-yl]ethynyl]-10-dodecylanthracene (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.; Grad. Sch. Sci., TMU) ○MATSUBARA, Kota; IYODA, Masahiko; OTANI, Hiroyuki

Tuesday, March 24, AM

Chair: TANIGUCHI, Tohru (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3F5-01, 3F5-03, 3F5-04, 3F5-05, 3F5-06)
- 3F5-01[#]** *N*-Heterocyclic Carbene Catalyzed Intramolecular Nucleophilic Aromatic Substitution of *N*-Arylacrylamides bearing an ortho leaving group (Grad. Sch. Eng., Osaka Univ.) ○YASUI, Kosuke; KAMITANI, Miharuru; TOBISU, Mamoru
- 3F5-03** *N*-Heterocyclic Carbene-Catalyzed 1,4-Rearrangement of an Aryl Group in *N*-Arylacrylamide Derivatives via the C(aryl)-N Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○KAMITANI, Miharuru; YASUI, Kosuke; TOBISU, Mamoru
- 3F5-04[#]** *N*-Heterocyclic Carbene-Catalyzed Synthesis of α -Amino Ketones from in Situ-Produced Imines Derived from Aminals (Sci. Tech., Sophia Univ.) ○LAMB, Justin; TAKASHIMA, Ryo; SUZUKI, Yumiko
- 3F5-05** NHC-catalyzed cross-benzoin condensation of aldehydes and acylals (Grad. Sch. of Sci. Technol., Sophia Univ.) ○ONODERA, Kou; TAKASHIMA, Ryo; SUZUKI, Yumiko
- 3F5-06** Difference in reactivity of open-cage C_{60} derivatives bearing a C=C or C=N moiety on their openings (ICR, Kyoto Univ.) ○KIZAKI, Kazuro; KIM, Kyusun; HASHIKAWA, Yoshifumi; HIROSE, Takashi; MURATA, Yasujiro

Chair: SHIRAKAWA, Eiji (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3F5-08, 3F5-09, 3F5-10, 3F5-12)
- 3F5-08** Development of Oligomer Halogen-Bond Donor Catalyst Having an Iodoperfluorobenzyl Ester Skeleton (Sch. Physical Sci., SOKENDAI; LCCMS, IMS) ○SUGAHARA, Yuto; OHTSUKA, Naoya; MOMIYAMA, Norie
- 3F5-09** Development of Polymer-Immobilized Nucleophilic Catalyst via Halogen Bond (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○HORI, Tatsuki; FUJINAMI, Takeshi; MOMIYAMA, Norie
- 3F5-10[#]** Development of Novel π -Extended Halogen Bond Donor : Synthesis and Application of Perfluorinated Iodoperylene (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○OHTSUKA, Naoya; OTA, Hino; SUZUKI, Toshiyasu; MOMIYAMA, Norie
- 3F5-12[#]** Enantiodivergent synthesis of axially chiral biaryls from organocatalyst mediated domino reaction products (Grad. Sch. Sci., Tohoku Univ.) ○KOSHINO, Seitaro; KWON, Eunsang; TANIGUCHI, Tohru; MONDE, Kenji; HAYASHI, Yujiro

Chair: TAKEDA, Youhei (11 : 20 ~ 12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3F5-15, 3F5-16, 3F5-17, 3F5-18, 3F5-19, 3F5-20)
- 3F5-15** Development of Highly Efficient Organo Lewis Acid Iodonium Complex Catalyst utilizing Three-center Four-electron Halogen Bond (LCCMS, IMS) ○FUJINAMI, Takeshi; OISHI, Shunya; MOMIYAMA, Norie
- 3F5-16** Development of Iodonium Complex Catalyst Having 1,2-Bis(2-pyridylethynyl)benzene as Ligand (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○OISHI, Shunya; FUJINAMI, Takeshi; MOMIYAMA, Norie
- 3F5-17** Development of Halogen Bond Donor Catalyst with 2-(2-iodoperfluorophenylethynyl)pyridine as a Mother Skeleton (LCCMS, IMS; Sch. Physical Sci., SOKENDAI) ○KATO, Masayuki; FUJINAMI, Takeshi; MOMIYAMA, Norie
- 3F5-18[#]** Oxidative Ring Expansion for Synthesis of 8-Membered Ring-fused π -Conjugated Polycycles (Grad. Sch. Sci., Tohoku Univ.) ○YANG, Lu; JIN, Tianan; TERADA, Masahiro
- 3F5-19** Photo-Induced Direct α -Arylation of Alkylamines with Sulfonylarennes (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○IKEDA, Yuko; SHIRAKAWA, Eiji
- 3F5-20** Acceleration Effect of Photoirradiation on the Electron-Catalyzed Cross-Coupling Reaction of Arylzinc Reagents with Aryl Halides (Sch. Sci. Tech., Kwansai Gakuin Univ.; CREST, JST) ○YONEKURA, Kyohei; MIZUSAWA, Sahiro; SHIRAKAWA, Eiji

Tuesday, March 24, PM

Chair: YORIMITSU, Hideki (13 : 40 ~ 14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(3F5-29, 3F5-31, 3F5-32, 3F5-33, 3F5-34)
- 3F5-29[#]** Development of an Efficient Sulfide Catalyst for Aromatic Halogenation

- (Grad. Sch. Eng., Osaka Univ.) ○NISHII, Yuji; IKEDA, Mitsuhiro; HAYASHI, Yoshihiro; KAWAUCHI, Susumu; MIURA, Masahiro
- 3F5-31** Electron-Catalyzed Cross-Coupling Reaction of Arylzinc Reagents with Aryl Triflates (Sch. Sci. Tech., Kwansai Gakuin Univ.; CREST, JST) ○MASAKI, Shu; YONEKURA, Kyohei; SHIRAKAWA, Eiji
- 3F5-32** Electron-Catalyzed Cross-Coupling Reaction of Arylzinc Reagents with Aryl Halides Accelerated by a Photoredox Catalysis (Sch. Sci. Tech., Kwansai Gakuin Univ.; CREST, JST) ○OTA, Yuki; YONEKURA, Kyohei; SHIRAKAWA, Eiji
- 3F5-33** Acceleration Effect of Photoredox Catalysis on the Electron-Catalyzed Cross-Coupling Reaction of Alkynylzinc Reagents with Aryl Halides (Sch. Sci. Tech., Kwansai Gakuin Univ.; CREST, JST) ○NISHIDA, Tomoya; OTA, Yuki; YONEKURA, Kyohei; SHIRAKAWA, Eiji
- 3F5-34** Synthesis of porphyrins incorporating diene and dienophile in one molecule (Grad. Sch. Sci., Eng., Ehime Univ.) ○EMOTO, Tsuyoshi; MORI, Shigeki; TAKASE, Masayoshi; OKUJIMA, Tetsuo; UNO, Hidemitsu

Room G1

Lecture Hall Bldg. K506

Biofunctional Chemistry ; Biotechnology

Sunday, March 22, AM

Peptide

Chair: TSUTSUMI, Hiroshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(1G1-01, 1G1-02, 1G1-03, 1G1-04, 1G1-05, 1G1-06)
- 1G1-01** pH-dependent structural changes and enzyme reactivity of self-assembling peptides. (Fac. Eng., Kyushu Univ.) ○HIGUCHI, Ayato; OBAYASHI, Hiroki; WAKABAYASHI, Rie; GOTO, Masahiro; KAMIYA, Norihiro
- 1G1-02** Co-assembly with peptide amphiphile through complementary interaction promotes intracellular delivery of small molecules. (Grad. Sch. Eng., Kyushu Univ.) ○OBAYASHI, Hiroki; WAKABAYASHI, Rie; KAMIYA, Norihiro; GOTO, Masahiro
- 1G1-03** Construction and application of cyclopropane-containing macrocyclic peptide libraries (Grad. Sch. Sci., The Univ. of Tokyo) ○OKUMA, Rika; KUWAHARA, Tomoki; WATANABE, Mizuki; SHUTO, Satoshi; GOTO, Yuki; SUGA, Hiroaki
- 1G1-04** Construction of prenylated peptide library using a post-translational modification enzyme and its application to drug discovery (Grad. Sch. Sci., The Univ. of Tokyo) ○INOUE, Sumika; OKUMA, Rika; GOTO, Yuki; SUGA, Hiroaki
- 1G1-05** Construction of a Novel Carrier System for Cancer Cell-specific Delivery Utilizing MMP-9 Activity II: Effects of Polymer Structure upon Enzyme Cleavage and Uptake Ability (IMRAM, Tohoku Univ.) ○MATSUHASHI, Yuka; CHENG, Yan; JIANG, Nan; SUGAI, Hiroaki; NAKASE, Ikuhiko; YAMAMOTO, Tsuyoshi; NISHIJIMA, Masaki; ARAKI, Yasuyuki; YAMAYOSHI, Asako; WADA, Takehiko
- 1G1-06[#]** Design and synthesis of novel helical foldamers based on cyclopropane δ -amino acids (Grad. Sch. Pharm., Hokkaido Univ.; Molprof, AIST) ○WATANABE, Mizuki; NAGATA, Makoto; TAKEUCHI, Kou; DOI, Ryohei; FUJIWARA, Koichi; SATO, Yoshihiro; SHUTO, Satoshi

Chair: MIKI, Takayuki (10 : 10 ~ 11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(1G1-08, 1G1-09, 1G1-10, 1G1-11, 1G1-12, 1G1-13)
- 1G1-08[#]** Evaluation of effects on membrane permeability and construction of intramolecular hydrogen bond of peptides by introduction of fluorines (Grad. Sch. Eng., The Univ. of Tokyo) ○ONO, Takahiro; MORIMOTO, Jumpei; AIKAWA, Kohsuke; OKAZOE, Takashi; SANDO, Shinsuke
- 1G1-09[#]** DEVELOPMENT OF PERFLUOROALKYL-CONTAINING CELL-PENETRATING PEPTIDE (Grad. Sch. Eng., The Univ. of Tokyo) ○MIKAMI, Toshiki; AIKAWA, Kousuke; MORIMOTO, Jumpei; SANDO, Shinsuke; NOZAKI, Kyoko; OKAZOE, Takashi
- 1G1-10** Design of cysteinylprolyl imide (CPI) peptide and application to chemical protein synthesis (RCAT, The Univ. of Tokyo) ○NAKATSU, Koki; YANASE, Masafumi; HAYASHI, Gosuke; OKAMOTO, Akimitsu
- 1G1-11** Application of solubilizing trityl-type tag for the synthesis of hydrophobic peptides (Peptide Institute, Inc.) ○MASUDA, Shun; TSUDA, Shugo; YOSHIYA, Taku
- 1G1-12** Screening and characterization of peptides capable of Michael addition reaction under physiological conditions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ITANI, Shunto; SUZUKI, Seigo; SAWADA, Toshiki; SERIZAWA, Takeshi
- 1G1-13** Peptide amphiphile substrates for synthesis of site-specific protein-drug conjugates (NIT, Kitakyushu College) ○MIURA, Tenki; TAKAHARA, Mari; KAMIYA, Norihiro

Chair: SANDO, Shinsuke (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(1G1-15, 1G1-18, 1G1-19, 1G1-20)
- 1G1-15[#]** Young Scholar Lectures of CSJ Novel strategies of peptide ligation for chemical protein synthesis (Grad. Sch. Eng., Nagoya Univ.)
○HAYASHI, Gosuke
- 1G1-18[#]** Rheological Properties of Self-Assembled Nanofiber Dispersions from Elastin-Like Block Polypeptides (Grad. Sch. Eng., Nagoya Univ.)
○SUGAWARA-NARUTAKI, Ayae; SUGIOKA, Yusuke; NAKAMURA, Jin; OHTSUKI, Chikara
- 1G1-19** Evaluation of Autophagy Inducing Ability by Peptide Fragments Derived from immunodeficiency virus Vpr/Vpx Proteins (Grad. Sch. Eng., Kindai Univ.; Kindai Univ.) ○HAZAMA, Yukihiro; KITAMATSU, Mizuki; MIYAZAWA, Masaaki; HAKATA, Yoshiyuki
- 1G1-20** Preparation and Evaluation of Gold Nanoparticle-Boron Cluster-Cell-penetrating Peptide Complex (Fac. Sci. Eng., Kindai Univ.)
○KITAMATSU, Mizuki; YAMAGATA, Naoki; YAMATO, Nagayuki; SOEJIMA, Tetsuroh; MIYOSHI, Yuhichi; OHTSUKI, Takashi

Sunday, March 22, PM

Chair: SUGAWARA-NARUTAKI, Ayae (13 : 30~14 : 20)

- * 13:20-13:30: interval for laptop PC connection.(1G1-28, 1G1-30, 1G1-31, 1G1-32)
- 1G1-28[#]** Magnetic alignment of microtubules by encapsulation of CoPt nanoparticles using a Tau-derived peptide (Grad. Sch. Eng., Tottori Univ.; Fac. Sci., Hokkaido Univ.) ○INABA, Hiroshi; YAMADA, Mayuki; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori
- 1G1-30** Construction of GFP-encapsulated microtubules by using microtubule-binding peptides to modulate properties of microtubules (Grad. Sch. Eng., Tottori Univ.; FATU; Fac. Sci., Hokkaido Univ.) ○SUEKI, Yurina; YAMAMOTO, Takahisa; INABA, Hiroshi; IWASAKI, Takashi; KABIR, Arif Md. Rashedul; KAKUGO, Akira; SADA, Kazuki; MATSUURA, Kazunori
- 1G1-31** Development of peptide carriers for mitochondria-oriented drug delivery mitochondria (Grad. Sch. Sci. Tech., Ryukoku Univ.)
○KAWAMURA, Rio; UEMATSU, Yuta; YAMASAKI, Masayuki; TOMIZAKI, Kin-ya
- 1G1-32** Structure activity relationships of an inhibitor peptide for membrane fusion protein of measles virus (Grad. Sch. Eng., The Univ. of Tokyo)
○GAO, Ziwei; SUZUKI, Tomoaki; MORIMOTO, Jumpei; SUZUKI, Tateki; HASHIGUCHI, Takao; SANDO, Shinsuke

Protein Engineering

Chair: INABA, Hiroshi (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(1G1-34, 1G1-36, 1G1-37)
- 1G1-34[#]** Redox dependent conformational change of the [2Fe-2S] ferredoxin revealed by ultrahigh resolution X-ray crystallography (Inst. for Protein Res., Osaka Univ.) ○OHNISHI, Yusuke; TANAKA, Hideaki; OKUMURA, Hideo; BABA, Kiyoki; KAWANO, Yoshiaki; KUMASAKA, Takashi; TESHIMA, Keizo; IKEGAMI, Takahisa; AGO, Hideo; UENO, Go; MURAKAMI, Hironori; YAMASHITA, Keitaro; HIRATA, Kunio; YAMAMOTO, Masaki; KURISU, Genji
- 1G1-36** Improvement of photoinduced methane/methanol conversion using photosystem II reconstituted membrane containing methane monooxygenase (Sch. Life Sci. Tech., Tokyo Tech.) ○SUGIMOTO, Wataru; KONDO, Ryuichi; ITO, Hidehiro; KAMACHI, Toshiaki
- 1G1-37^{*}** The integrated strategy applies to artificial protein design: deracemization and stereoinversion of aromatic D-amino acid derivatives with artificial L-amino acid oxidase. (Grad. Div. Nutritional & Environmental Sci., Univ. of Shizuoka) ○ITO, Sohei; NAKANO, Shogo

Chair: KAMACHI, Toshiaki (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(1G1-40, 1G1-42, 1G1-44, 1G1-45)
- 1G1-40[#]** Development of Artificial Glutamic Acid Decarboxylase ~Benchmark Analysis of Native and Artificial Enzymes Generated by a Sequence-Based Design Method with or without Phylogenetic Data~ (Grad. Div. Nutritional & Environmental Sci., Univ. of Shizuoka) ○TAKAGI, Hiroshi; KOZUKA, Kohei; MIMURA, Kenta; MOTOYAMA, Tomoharu; NAKANO, Shogo; ITO, Sohei
- 1G1-42[#]** Directed Evolution of a Rh(III)-linked Biohybrid Catalyst for Isoquinoline Synthesis via Cycloaddition of Oximes and Alkynes (Grad. Sch. Eng., Osaka Univ.) ○KATO, Shunsuke; ONODA, Akira; SCHWANEBERG, Ulrich; HAYASHI, Takashi
- 1G1-44** Site-specific Dual Functionalization of Protein through N-terminal Modification Using 1*H*-1,2,3-triazole-4-carbaldehyde TA4C and Cysteine Modification (Grad. Sch. Eng., Osaka Univ.) ○SUMIYOSHI, Eigo; INOUE, Nozomu; ONODA, Akira; HAYASHI, Takashi
- 1G1-45** Synthesis of C5-Substituted 1*H*-1,2,3-Triazole-4-Carbaldehyde Derivative Reagents and Application to N-terminal Specific Modification of Proteins (Sch. Eng., Osaka Univ.) ○KITAI, Shoichi; SUMIYOSHI, Eigo; INOUE, Nozomu; ONODA, Akira; HAYASHI, Takashi

Chair: ITO, Sohei (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(1G1-47, 1G1-48, 1G1-49, 1G1-50, 1G1-51, 1G1-52)
- 1G1-47** Functional molecular structure of a small bispecific antibody cross-linking cancer cells and NK cells (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KUWAHARA, Atsushi; ASANO, Ryutaro; NAKANISHI, Takeshi; TSUGAWA, Wakako; IKEBUKURO, Kazunori
- 1G1-48** Evaluation of structural features of α -S1-casein detected from amyloid deposits in canine mammary tumor (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KAKU, Toshiyuki; KUBO, Rikako; TSUKAKOSHI, Kaori; MURAKAMI, Tomoaki; IKEBUKURO, Kazunori
- 1G1-49** Development of Novel Thiol-Based Protein Folding Promoters (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; IMRAM, Tohoku Univ.) ○OKADA, Shunsuke; MATSUSAKI, Motonori; INABA, Kenji; OKUMURA, Masaki; MURAOKA, Takahiro
- 1G1-50** Substrate Screening of Cytochrome P450BM3 with Novel Decoy Molecules (Grad. Sch. Sci., Nagoya Univ.) ○YONEMURA, Kai; ARIYASU, Shinya; STANFIELD, Joshua Kyle; ONODA, Hiroki; SUGIMOTO, Hiroshi; WATANABE, Yoshihito; SHOJI, Osami
- 1G1-51** Preparation of a Hydrogel Containing a De Novo Hemoprotein as a Cross-linking Unit Using Click Chemistry (Grad. Sch. Eng., Osaka Univ.) ○IKEDA, Takumi; OZAKI, Taichi; OOHORA, Koji; HAYASHI, Takashi
- 1G1-52** Characterization of a human catalytic antibody #7TR (RPP., Oita Univ.) ○NONAKA, Tamami; SADOHARA, Mami; UDA, Taizo; HIFUMI, Emi

Chair: ONODA, Akira (17 : 50~18 : 50)

- * 17:40-17:50: interval for laptop PC connection.(1G1-54, 1G1-55, 1G1-56, 1G1-57, 1G1-58, 1G1-59)
- 1G1-54** Solubilization behavior of new solubilization surfactants, having polyacrylamide-chains with controlled MW, for membrane proteins. (Grad. Sch. Eng., Nagoya Inst. of Tech.; Grad. Sch. Eng., Nagoya Inst. of Tech.) ○MIZUNO, Toshihisa; SHIMAMOTO, Taro; KAWAKAMI, Keisuke; KAMIYA, Nobuo
- 1G1-55** O₂ Affinity Control of Hemoglobin-Albumin Trimer by Chemical Modification (Fac. Sci. Eng., Chuo Univ.) ○SAITO, Asuka; MORITA, Yoshitsugu; KOMATSU, Teruyuki
- 1G1-56** O₂ Affinity Control of Hemoglobin-Albumin Trimer by Mutagenesis (Fac. Sci. Eng., Chuo Univ.) ○TAKADA, Ryoya; SAITO, Asuka; MORITA, Yoshitsugu; KOMATSU, Teruyuki
- 1G1-57** Characterization of Protein hydrogel for sustained release of low molecular weight drugs (Sch. Life Sci. Tech., Tokyo Tech.) ○KASHIWAZAKI, Ayumi; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry
- 1G1-58** Construction of MyoD immobilized protein hydrogel for muscle tissue engineering (Sch. Life Sci. Tech., Tokyo Tech.) ○NETSU, Yuya; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry
- 1G1-59** Construction of DNA-IgG binding protein hybrid molecules using Rep protein. (Sch. Life Sci. Tech., Tokyo Tech.) ○NAKAYAMA, Yukino; MASHIMO, Yasumasa; MIE, Masayasu; KOBATAKE, Eiry

Monday, March 23, AM

Metal

Chair: KITAGISHI, Hiroaki (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G1-01, 2G1-02, 2G1-03, 2G1-05)
- 2G1-01** Development of Artificial Metalloenzymes for Stereoselectivity Michael Addition Reaction (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ○YUASA, Miho; ODAWARA, Shun; ISHII, Toshihiro; FUJIEDA, Nobutaka
- 2G1-02** Development of Artificial Metalloenzymes Catalyzing Asymmetric Transfer Hydrogenation of Ketones (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ODAWARA, Shun; YUASA, Miho; ○FUJIEDA, Nobutaka
- 2G1-03[#]** Effects of mutagenesis and decoy molecules in hydroxylation of gaseous alkanes by cytochrome P450BM3 (Grad. Sch. Sci., Nagoya Univ.) ○ARIYASU, Shinya; KODAMA, Yusaku; KASAI, Chie; AIBA, Yuichiro; WATANABE, Yoshihito; SHOJI, Osami
- 2G1-05[#]** Development of Heme Protein HasA Capturing Bulky Metal Complexes for Catalytic Reactions (Grad. Sch. Sci., Nagoya Univ.) ○SAKAKIBARA, Erika; SHISAKA, Yuma; KOGA, Daiki; XU, Ning; ONO, Toshikazu; HISAEDA, Yoshio; SUGIMOTO, Hiroshi; WATANABE, Yoshihito; SHOJI, Osami

Chair: FUJIEDA, Nobutaka (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G1-08, 2G1-09, 2G1-10, 2G1-11, 2G1-12, 2G1-13)
- 2G1-08[#]** Supramolecular Assembling System Based on Apo-form of Hexameric Tyrosine-coordinated Heme Protein and Engineered Cytochrome *b*₅₆₂ (Grad. Sch. Eng., Osaka Univ.) ○WONG SOON, Julian; HIRAYAMA, Shota; OOHORA, Koji; HAYASHI, Takashi
- 2G1-09** Preparation of Polyacrylamide Gel Containing Hexameric Hemoprotein as a Cross-linker and Evaluation of its Stimuli-responsive Property (Grad.

Sch. Eng., Osaka Univ.) ○KAGEYAMA, Kazuki; OOHORA, Koji; HAYASHI, Takashi

- 2G1-10** Control of Multimerization of Heme Acquisition Protein HasA with Rigid Porphyrin Oligomers (Grad. Sch. Sci., Nagoya Univ.) ○UEDA, Garyo; SHISAKA, Yuma; SAKAKIBARA, Erika; SHOJI, Osami
- 2G1-11** A Hybrid Catalytic System Based on Reconstituted Hemoprotein and Solid Catalyst toward C-H Bond Hydroxylation Using Molecular Dioxide as a Terminal Oxidant (Grad. Sch. Eng., Osaka Univ.) ○KAGAWA, Yoshiyuki; OOHORA, Koji; HAYASHI, Takashi
- 2G1-12** Investigation of inhibitory mechanism of PLP-dependent SufS enzyme in iron-sulfur cluster biogenesis by cycloserine (Fac. Sci., Saitama Univ.) ○OGAWA, Shoko; NAKAMURA, Ryosuke; KOMATSU, Marika; HIKITA, Masahide; FUJISHIRO, Takashi; TAKAHASHI, Yasuhiro
- 2G1-13** Characterization of Fe-S-oxo-hybrid cluster protein found in facultative anaerobes (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUJISHIRO, Takashi; OOI, Miho; TAKAHASHI, Yasuhiro

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

* 11:10-11:20: interval for laptop PC connection.(2G1-15)

- 2G1-15[#]** CSJ Award for Creative Works Reaction mechanism elucidation and supramolecular creation of metalloproteins (Grad. Sch. Sci. & Tech., NAIST) ○HIROTA, Shun

Monday, March 23, PM

Metal/Protein Engineering

Chair: SHOJI, Osami (13 : 30~14 : 40)

* 13:20-13:30: interval for laptop PC connection.(2G1-28, 2G1-30, 2G1-31, 2G1-32, 2G1-34)

- 2G1-28[#]** Amino acid sequence design of the hinge region in domain swapping for construction of protein supramolecules (Grad. Sch. Sci. & Tech., NAIST) ○NAGAO, Satoshi; IDOMOTO, Ayaka; SUDA, Ayaka; KOBAYASHI, Hisashi; SHIBATA, Naoki; HIGUCHI, Yoshiaki; HIROTA, Shun
- 2G1-30** Oligomerization and dimer properties of poplar plastocyanin (Grad. Sch. Sci. & Tech., NAIST) ○INOMATA, Junpei; LE MOUËL, Korantin; YAMANAKA, Masaru; HIROTA, Shun
- 2G1-31** Construction of switchable supramolecules using fusion proteins designed based on domain-swapped structures (Grad. Sch. Sci. & Tech., NAIST) ○YAMANAKA, Masaru; HIROTA, Shun
- 2G1-32^{*}** Production and properties of a bifunctional catalytic antibody that simultaneously degrades two types of antigens (Tau & A β) (ISIT Nanotechnology Lab.) ○UDA, Taizo; TAGUCHI, Hiroaki; HIFUMI, Emi
- 2G1-34** Metal ion binding accelerates heme degradation reaction of HtzZ from *Pasteurella multocida* (Fac. Sci., Hokkaido Univ.) ○UCHIDA, Takeshi; OTA, Kazuki; ISHIMORI, Koichiro

Metal

Chair: UCHIDA, Takeshi (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2G1-49, 2G1-50, 2G1-51, 2G1-52)

- 2G1-49** A self-assembled structure of a β -helical duplex via coordination bonds (Grad. Sch. Eng., The Univ. of Tokyo) ○IWASAKI, Wataru; YAMAGAMI, Motoya; SAWADA, Tomohisa; FUJITA, Makoto
- 2G1-50** Modification of metal complexes to cytoskeleton proteins of erythrocyte membrane and control of photocatalytic reaction (Coll. Life Sci., Ritsumeikan Univ.) ○MINAMI, Mizuho; KOSHIYAMA, Tomomi
- 2G1-51** A molecular mechanism of redox reactions of ZEP (Fac. Pharm. Sci., Doshisha Women's Coll. of Liberal Arts) ○KISHI, Kanae; NAKAGAWA, Yuka; NEGI, Shigeru
- 2G1-52** Elucidation of the mechanism of cooperative reduction of glutathione and its derivatives with trace metal elements (Fac. Pharm. Sci., Doshisha Women's Coll. of Liberal Arts) ○NEGI, Shigeru; HASHIMOTO, Rina; NAKAGAWA, Yuka

Tuesday, March 24, AM

Peptide

Chair: TAKAHASHI, Tsuyoshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3G1-01, 3G1-02, 3G1-03, 3G1-04, 3G1-05, 3G1-06)

- 3G1-01** Construction of a Benzenesulfonamide-modified Peptide Phage Library (Sch. Life Sci. Tech., Tokyo Tech.) ○TAKIGIKU, Hiroki; ANANANUCHATKUL, Teerapat; KAJIWARA, Keigo; MIKI, Takayuki; MIHARA, Hisakazu; TSUTSUMI, Hiroshi
- 3G1-02** Screening of a Fluorescent Biosensor for Galectin-3 by Modified Phage Library (Sch. Life Sci. Tech., Tokyo Tech.) ○HASHIMOTO, Masahiro; MIKI, Takayuki; IOU VEN, Chang; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 3G1-03** Development of Ligand-Modified Silica Nanoparticles for Protein Labeling (Sch. Life Sci. Tech., Tokyo Tech.) ○KAWAWAKI, Ryota; KAWAHARA, Daiki; MIKI, Takayuki; MIHARA, Hisakazu; TSUTSUMI,

Hiroshi

- 3G1-04** Peptide drug screening using cyclic β -amino acids-containing helix peptide libraries (Grad. Sch. Sci., The Univ. of Tokyo) ○KAWAI, Marina; KATO, Takayuki; SUGA, Hiroaki
- 3G1-05** Construction of nonstandard peptide libraries containing cyclic γ -amino acids and its application to the drug candidate screening (Grad. Sch. Sci., The Univ. of Tokyo) ○MIURA, Takashi; KATO, Takayuki; SUGA, Hiroaki
- 3G1-06** Elemental Composition Control of Gold-Titanium Photocatalysts by Mineralization Using Two Artificial Peptides and DNAs (FIRST, Konan Univ.) ○OZAKI, Makoto; TSURUOKA, Takaaki; TOMIZAKI, Kin-ya; USUI, Kenji

Chair: TSUTSUMI, Hiroshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3G1-08, 3G1-09, 3G1-10, 3G1-11, 3G1-12, 3G1-13)

- 3G1-08** Sequence-specific Detection of RNA by Using Peptide Nucleic Acid Beacon Containing Two Fluorophores (Grad. Sch. Sci. Eng., Kindai Univ.) ○MATSUBARA, Yoshiaki; KITAMATSU, Mizuki; OHTSUKI, Takashi
- 3G1-09** Hybridization of Intracellular Delivery Peptide and Autophagy-Inducing Peptide via Peptide Nucleic Acid and Introduction of the Hybrid into the Cell (Grad. Sch. Sci. Eng., Kindai Univ.) ○KISHI, Takamasa; KITAMATSU, Mizuki; ISHIKAWA, Suzuka; MIYAZAWA, Masaaki; HAKATA, Yoshiyuki
- 3G1-10** Hybridization of Autophagy-inducing Peptide with Cell-penetrating Peptide via Leucine Zipper Motif and the Intracellular Delivery (Fac. Sci. Eng., Kindai Univ.) ○YAMASHITA, Kazuma; KITAMATSU, Mizuki; MIYAZAWA, Masaaki; HAKATA, Yoshiyuki
- 3G1-11** Construction of active enzyme generation system using protein splicing that depends on ligand-protein interactions (Grad. Sch. Sci. Tech., Gunma Univ.) ○HAGIWARA, Hiroaki; TAKAHASHI, Tsuyoshi
- 3G1-12** Detection of synthetic compound-protein interactions in cell using ligation between peptide tags and NanoLuc reporter (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAKAHASHI, Tsuyoshi; HAGIWARA, Hiroaki
- 3G1-13** Fluorescence imaging of gangliosides using Dansyl-(Arg)₃peptides bearing membrane anchor (Fac. Eng., Tottori Univ.) ○OKAZAKI, Mizuki; HISAMOTO, Kouichi; INABA, Hiroshi; MATSUURA, Kazunori

Chair: GOTO, Yuki (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3G1-15, 3G1-17, 3G1-18, 3G1-20)

- 3G1-15[#]** Development of a Self-Assembling Peptide Tag 1: In-cell Protein Assembly by Y15 fusion (Sch. Life Sci. Tech., Tokyo Tech.) ○MIKI, Takayuki; NAKAI, Taichi; HASHIMOTO, Masahiro; KAJIWARA, Keigo; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 3G1-17** Development of a Self-Assembling Peptide Tag 2 : Impact of the Hydrophobic Residues on the Assembly (Sch. Life Sci. Tech., Tokyo Tech.) ○KAJIWARA, Keigo; MIKI, Takayuki; NAKAI, Taichi; HASHIMOTO, Masahiro; TSUTSUMI, Hiroshi; MIHARA, Hisakazu
- 3G1-18[#]** The effect of sequential modification of elastin-derived (FPGV)_n peptide analogs on self-assembly properties (Fac. Arts and Sci., Kyushu Univ.) ○SUYAMA, Keitaro; SHIMIZU, Marin; MAEDA, Iori; NOSE, Takeru
- 3G1-20** Controlled co-assembly of peptide amphiphiles using the temperature dependence of self-assembly (Grad. Sch. Eng., Kyushu Univ.) ○IMATANI, Rino; WAKABAYASHI, Rie; KAMIYA, Norihiro; GOTO, Masahiro

Tuesday, March 24, PM

Protein Engineering/Peptide

Chair: USUI, Kenji (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3G1-28, 3G1-30, 3G1-32)

- 3G1-28^{*}** An algorithm converting an antibody into the corresponding catalytic antibody (RPP, Oita Univ.) ○HUFUMI, Emi; TAGUCHI, Hiroaki; NONAKA, Tamami; UDA, Taizo
- 3G1-30[#]** Ribosomal synthesis of peptides bearing a thioamide bond (Grad. Sch. Sci., The Univ. of Tokyo) ○KIMURA, Hiroyuki; MAINI, Rumi; KATO, Takayuki; GOTO, Yuki; SUGA, Hiroaki
- 3G1-32[#]** *In vitro* synthesis of statine-containing peptides by means of post-translational chemical modification reactions (Grad. Sch. Sci., The Univ. of Tokyo) ○KURODA, Tomohiro; GOTO, Yuki; SUGA, Hiroaki

Protein Engineering

Chair: SAWADA, Tomohisa (14 : 40~15 : 30)

* 14:30-14:40: interval for laptop PC connection.(3G1-35, 3G1-36, 3G1-38)

- 3G1-35** In Cell Crystallization of Mini-protein Fusion Polyhedrin (Sch. Life Sci. Tech., Tokyo Tech.) ○KOJIMA, Mariko; ABE, Satoshi; UENO, Takafumi
- 3G1-36[#]** New nucleosome locating method using 5-bromouracil and photo-reaction (Grad. Sch. Sci., Nagoya Univ.) ○HASHIYA, Fumitaka; SUGIYAMA, Hiroshi; ABE, Hiroshi
- 3G1-38[#]** Enhanced enzymatic activity with a packed assembly on DNA scaffold (IAE, Kyoto Univ.) ○DINH, Huyen; NAKATA, Eiji;

MUTSUDA-ZAPATER, Kaori; SAIMURA, Masayuki; KINOSHITA, Masahiro; MORII, Takashi

Chair: NAKATA, Eiji (15 : 40~16 : 30)

- * 15:30-15:40: interval for laptop PC connection.(3G1-41, 3G1-42, 3G1-44)
3G1-41[#] Construction of Fibril Protein Assembly From Engineered Protein Crystals (Sch. Life Sci. Tech., Tokyo Tech.) ○PHAM, Thuc Toan; NEGISHI, Hashiru; ABE, Satoshi; UENO, Takafumi
3G1-42^{}** Bioadhesive Catalytic Organic Framework for Controlled Drug Release Triggered by Biological Signals (Grad. Sch. Eng., The Univ. of Tokyo) ○JO, Hyuna; OKURO, Kou; AIDA, Takuzo
3G1-44^{}** Development of amphiphilic linker for protein labeling and polymerization (Sch. Life Sci. Tech., Tokyo Tech.) ○HAN, Sanghun; AOKI, Yusuke; SATO, Kohei; KINBARA, Kazushi

Chair: NAGATOISHI, Satoru (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(3G1-47, 3G1-48, 3G1-49, 3G1-51)
3G1-47[#] Evaluation of intracellular state of proteins translated from highly conserved human upstream ORF (Sch. Life Sci. Tech., Tokyo Tech.) ○AKASE, Taichi; AIZAWA, Yasunori; TSUMITSUMI, Hiroyuki; YAMAGUCHI, Kiyoshi
3G1-48[#] A dynamic DNA scaffold for enzyme cascade reaction (IAE, Kyoto Univ.) ○LIN, Peng; DINH, Huyen; MORITA, Yuki; NAKATA, Eiji; MORII, Takashi
3G1-49^{}** Synthesis of GG-Ub derivatives to understand the Ubiquitin Code (Grad. Sch. Eng., The Univ. of Tokyo) ○DIXIT, Shivani; OHTAKE, Fumiaki; SAEKI, Yasushi; OKAMOTO, Akimitsu
3G1-51^{}** Controlling ring-type assembly of peroxidase by chemical modification (BRI, AIST) ○HIMIYAMA, Tomoki; NAKAMURA, Tsutomu

Chair: NAGATOISHI, Satoru (17 : 50~18 : 50)

- * 17:40-17:50: interval for laptop PC connection.(3G1-54, 3G1-55, 3G1-56, 3G1-57, 3G1-58, 3G1-59)
3G1-54 Structural analysis of a peptide fragment grafted to a scaffold Adhiron (Grad. Sch. Eng., The Univ. of Tokyo) ○SUMIKAWA, Taichi; NAKAKIDO, Makoto; KURODA, Daisuke; TSUMOTO, Kouhei
3G1-55 Construction of Artificial Viral Capsid decorated with Green Fluorescent Protein on the surface (Grad. Sch. Eng., Tottori Univ.; FATU) ○SHIMOMURA, Kazuki; INABA, Hiroshi; IWASAKI, Takashi; MATSUURA, Kazunori
3G1-56 Creation of enveloped artificial viral capsid equipped with membrane protein (Grad. Sch. Eng., Tottori Univ.; Grad. Sch. Eng., Kyoto Univ.) ○FURUKAWA, Hiroto; INABA, Hiroshi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari; MATSUURA, Kazunori
3G1-57 Dual surface modification of a hollow protein nanoparticle TIP60 with hetero-molecules (Grad. Sch. Sci. Tech., Keio Univ.) ○NASU, Erika; KAWAKAMI, Norifumi; MIYAMOTO, Kenji
3G1-58 An approach to encapsulate a protein in the hollow protein nanoparticle, TIP60 (Grad. Sch. Sci. Tech., Keio Univ.) ○HAYASHI, Keiichi; KAWAKAMI, Norifumi; MIYAMOTO, Kenji
3G1-59 Characterization of myoglobin reconstituted with a chemically-modified heme possessing a trifluoromethyl group at the meso position (Sch. Sci. Eng., Univ. of Tsukuba) ○MURATA, Rie; MOMOTAKE, Atsuya; YAMAMOTO, Yasuhiko; SUZUKI, Akihiro; MATSUO, Takashi; HIROTA, Shun; NEYA, Saburo

Wednesday, March 25, AM

Protein

Chair: TSUTSUMI, Hiroshi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4G1-01, 4G1-02, 4G1-03, 4G1-05)
4G1-01 Imaging of neurotransmitter receptors by using fluorescent dye-nanobody conjugates (Sch. Eng., Kyoto Univ.) ○WATANABE, Yu; TAMURA, Tomonori; HAMACHI, Itaru; YUZAKI, Michisuke; ARICESCU, Radu
4G1-02 Mechanism elucidation of lipid membrane degradation behavior by sphingomyelinase using AFM (Sch. Life Sci. Tech., Tokyo Tech.) ○MUROYA, Ayumi; TANAKA, Rina; KURIHARA, Keisuke; MORI, Toshiaki
4G1-03^{}** Disassembly reaction of the ferritin cage observed by high-speed AFM (Sch. Life Sci. Tech., Tokyo Tech.) ○MAITY, Basudev; LI, Zhipeng; NIWASE, Kento; LU, Diannan; UENO, Takafumi
4G1-05^{}** Utility of SPR analysis in elucidation of lipid function for membrane protein activation (Grad. Sch. Sci., Kyushu Univ.) ○INADA, Masataka; KINOSHITA, Masanao; IWAMOTO, Masayuki; OIKI, Shigetoshi; MATSUMORI, Nobuaki

Chair: MORI, Toshiaki (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4G1-08, 4G1-10, 4G1-12, 4G1-13)
4G1-08^{*} Dynamics of Tetrahydropterin Radical Formation in Nitric Oxide Synthase (ISIR, Osaka Univ.; Saga Univ.) ○KOBAYASHI, Kazuo;

HORITANI, Masaki; KOZAWA, Takahiro

- 4G1-10^{*}** Mechanistic analysis of haloacid dehalogenase by isothermal titration calorimetric assay (Nagahama Institute of Bio-Science and Technology; IAE, Kyoto Univ.) ○NAKAMURA, Takashi; KOZAWA, Takumi; NAKATA, Eiji; MORII, Takashi
4G1-12 Optimization of intracellular protein crystallization (Sch. Life Sci. Tech., Tokyo Tech.) ○KOGURE, Ryoga; ABE, Satoshi; UENO, Takafumi
4G1-13[#] Design of the Two-dimensional Protein Assembly Patterns by Modifying the Tip of β -helical Protein Needle (Sch. Life Sci. Tech., Tokyo Tech.) ○KIKUCHI, Kosuke; UENO, Takafumi

Chair: ABE, Satoshi (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4G1-15, 4G1-16, 4G1-17, 4G1-19, 4G1-20)
4G1-15 Titration analysis of KaiA for KaiC using continuous titration small angle X-ray scattering (Grad. Sch. Sci. & Tech., NAIST) ○AOYAMA, Risako; YAMAZAKI, Yoichi; YONEZAWA, Kento; MUKAIYAMA, Atsushi; HAYASHI, Yugo; TOMA-FUKAI, Sachiko; SHIMIZU, Nobutaka; AKIYAMA, Shuji; KAMIKUBO, Hironari
4G1-16 Study of local structural effects on the reactivities of cysteine thiols on the surface of the adenylate kinase triple mutant (A55C/ C77S / V169C) (Grad. Sch. Mat. Sci., NAIST) ○TAMAKI, Ryosei; MIYAKE, Teruyuki; ASANUMA, Moeko; MATSUO, Takashi; HIROTA, Shun
4G1-17^{}** Detecting structural changes of the putative nitric oxide domain in TRPC5 channel (IAE, Kyoto Univ.) ○TAJIMA, Shunsuke; NAKATA, Eiji; SAKAGUCHI, Reiko; SAIMURA, Masayuki; MORI, Yasuo; MORII, Takashi
4G1-19 Design of fluorescent sensor detecting nitric oxide using auto-fluorescent protein (IAE, Kyoto Univ.) ○TOYOSHIMA, Yoshitaka; TAJIMA, Shunsuke; NAKATA, Eiji; SAIMURA, Masayuki; MORII, Takashi
4G1-20 Combined effects of arabinofuranosidases Abf43A and Abf51A with various xylanases from *Paenibacillus* sp. strain H2C in arabinoxylan degradation (Sch. Life Sci. Tech., Tokyo Tech.) ○OKUDA, Keiko; ITO, Kiseki; HAGIWARA, Yusuke; MURASE, Ayaka; OKEDA, Tomohiro; MIHARA, Yasuhiro; YATSUNAMI, Rie; FUKUI, Toshiaki; NAKAMURA, Satoshi

Wednesday, March 25, PM

Protein Engineering/Peptide/Metal

Chair: YOSHIYAMA, Tomomi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(4G1-28, 4G1-30, 4G1-32, 4G1-33)
4G1-28^{*} Design of polyhedra crystallization for rapid protein structure analysis (Sch. Biosci. Biotech., Tokyo Tech.) ○ABE, Satoshi; KOJIMA, Mariko; KOGURE, Ryoga; UENO, Takafumi
4G1-30^{*} Dynamic β -barrel structures by metal-induced self-assembly of short peptides (Grad. Sch. Eng., The Univ. of Tokyo) ○YAMAGAMI, Motoya; SAWADA, Tomohisa; FUJITA, Makoto
4G1-32 Effects of Zn(II) ion on amyloid β aggregation induced by GM1-containing lipid membrane (Grad. Sch. Sci. Tech., Keio Univ.) ○ITO, Koichiro; MATSUBARA, Teruhiko; SATO, Toshinori
4G1-33 Inhibition of A β 42 fibril formation induced on GM1-containing lipid membrane by cyclic peptide (Fac. Sci. Tech., Keio Univ.) ○MIYAMOTO, Erika; NAKAI, Mako; NISHIHARA, Masaya; MATSUBARA, Teruhiko; SATO, Toshinori

Protein Engineering

Chair: KITAGISHI, Hiroaki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4G1-35, 4G1-37, 4G1-39)
4G1-35^{}** The design of artificial domain-swapped proteins by polyproline-rod insertion (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SHIGA, Shota; YAMANAKA, Masaru; HUIJIWARA, Wataru; HIROTA, Shun; GODA, Shuichi; MAKABE, Koki
4G1-37^{*} Camelid single-domain antibody fragment (VHH antibody): difference between naive and artificial library in *in-vitro* selection (Grad. Sch. Sci., Eng., Saitama Univ.) ○SUZUKI, Takeru; MURAKAMI, Akikazu; NEMOTO, Naoto
4G1-39^{*} Enzymatic dual-lipidation of a protein in a site-specific manner (NIT, Kitakyushu College) ○TAKAHARA, Mari; WAKABAYASHI, Rie; GOTO, Masahiro; KAMIYA, Noriho

Chair: UENO, Takafumi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(4G1-42, 4G1-43, 4G1-44, 4G1-45, 4G1-46, 4G1-47)
4G1-42 Crowding effect on reaction dynamics of photoactivated adenylate cyclase (Dep. Chem., Sch. Sci., Kyoto Univ.) ○MURAKAMI, Hiroto; NAKASONE, Yusuke; TERAZIMA, Masahide
4G1-43 Crowding effect on fluctuation and catalytic activity of photoactivated adenylate cyclase (Dep. Chem., Sch. Sci., Kyoto Univ.) ○NAKASONE, Yusuke; MURAKAMI, Hiroto; TERAZIMA, Masahide
4G1-44 Synthesis of non-CO-generating α -meso-methyl-meso-heme during its metabolic reaction and its effect on cells (Fac. Sci. Eng., Doshisha Univ.; Fac.

Sci. Eng., Doshisha Univ.) ○KITAGISHI, Hiroaki; TAKAYAMA, Mikako; MAO, Qiyue

- 4G1-45** Control of energy transfer reaction by modification of fluorescent molecules to cytoskeleton proteins of ghost red blood cell (Coll. Life Sci., Ritsumeikan Univ.) ○HIROE, Haruka; KOSHIYAMA, Tomomi
- 4G1-46** Directed evolution of isoprene synthase. (Fac. Eng., Chiba Univ.) ○ARAKI, Naomasa; ONOZATO, Yumi; OTANI, Yusuke; KAWAI-NOMA, Shigeo; UMENO, Daisuke
- 4G1-47** Immobilization of esterase into macroporous silica microcapsule (RCPT, AIST) ○FUJIWARA, Masahiro; SHOJI, Shigeru; MURAKAMI, Yuka; ISHIKAWA, Kazuhiko

Room G2

Lecture Hall Bldg. K507

Biofunctional Chemistry ; Biotechnology

Sunday, March 22, AM

Functional Molecules

Chair: MIYATAKE, Tomohiro (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1G2-07, 1G2-08, 1G2-09, 1G2-10, 1G2-11, 1G2-12)
- 1G2-07** Syntheses and structure of N, N-etheno-bridged porphycenes (Grad. Sch. Sci., Eng., Saitama Univ.) ○MURATA, Kyouka; FUJIHARA, Takashi; SETSUNE, Jun-ichiro; ISHIMARU, Yoshihiro
- 1G2-08** alkylation reaction of intramolecular N-strapped porphyrins (Grad. Sch. Sci., Eng., Saitama Univ.) ○AINAI, Hiroki; FUJIHARA, Takashi; ISHIMARU, Yoshihiro
- 1G2-09** Design and Synthesis of Cyclic Oligomers Composed of Bispyrroli-dinoindoline Scaffold (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HONDA, Tasuku; OGURI, Hiroki
- 1G2-10** Syntheses of β -cyclodextrin dimers by intramolecular glucose rotation (Grad. Sch. Sci., Eng., Saitama Univ.) ○FUKIMBARA, Hiroki; ISHIMARU, Yoshihiro
- 1G2-11** Synthesis of γ -cyclodextrin dimers by intramolecular glucose rotation (Grad. Sch. Sci., Eng., Saitama Univ.) ○OHYAMA, Isato; MATSUDA, Nozomu; ISHIMARU, Yoshihiro
- 1G2-12** Synthesis and Characterization of artificial siderophore-metal complexes for growth factor of rhizosphere microorganisms (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SAKAMOTO, Mako; SUZUKI, Naruhito; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: ISHIMARU, Yoshihiro (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(1G2-14, 1G2-15, 1G2-16, 1G2-17, 1G2-18, 1G2-19)
- 1G2-14** Zinc and Cadmium Ion-Induced Fluorescent Response of Octanitrogen Ligands with a Tetrakisquinoline Structure (Grad. Sch. Human. Sci., Nara Women's Univ.; Kyousei Sci. Center for Life and Nature, Nara Women's Univ.) ○TOSAKA, Nao; SAKURAI, Yui; MATSUMOTO, Arimasa; MIKATA, Yuji
- 1G2-15** Self-aggregation of zinc chlorins possessing a various substituent at the 17-position in lipid membranes (Fac. Sci. Tech., Ryukoku Univ.) ○SUGIYAMA, Kazuo; MIYATAKE, Tomohiro
- 1G2-16** Simplified preparation of the pigments making the organogels by construction of a new mutant of green sulfur bacterium *Chlorobaculum limmaeum* (Kurume Univ. Sch. of Med.; Kumamoto Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) ○HARADA, Jiro; KINOSHITA, Yusuke; HASHISHIN, Takeshi; MIZOGUCHI, Tadashi; YAMAMOTO, Ken; TAMIYAKI, Hitoshi
- 1G2-17** Aggregation of ionic chlorophylls by using cationic or anionic peptide-modified chlorophyll conjugates (Fac. Sci. Tech., Ryukoku Univ.) ○SEMBA, Ma-aya; YAMAMOTO, Ryuichi; MIYATAKE, Tomohiro
- 1G2-18** Optical properties of zinc chlorophyll assemblies associated with peptide-chlorophyll conjugates (Fac. Sci. Tech., Ryukoku Univ.) ○YAMAMOTO, Ryuichi; SEMBA, Ma-aya; MIYATAKE, Tomohiro
- 1G2-19** Organization of chlorophyll assemblies controlled by peptide aggregation (Fac. Sci. Tech., Ryukoku Univ.) ○HATANO, Mizuho; YAMAMOTO, Ryuichi; SEMBA, Ma-aya; MIYAKAKE, Tomohiro

Sunday, March 22, PM

Chair: AMAO, Yutaka (13 : 20~14 : 10)

- * 13:10-13:20: interval for laptop PC connection.(1G2-27, 1G2-28, 1G2-29, 1G2-30, 1G2-31)
- 1G2-27** Reconstitution of chlorophyll *b* into the light-harvesting protein LH2 and *in situ* structural conversion of Chl *b* (Fac. Sci. Eng., Kindai Univ.) ○YAMASHITA, Madoka; NAKAGAWA, Shiori; SAGA, Yoshitaka
- 1G2-28** Effects of buffer pH on LH1-RC complexes of the purple photosynthetic bacterium possessing bacteriochlorophyll *b* (Fac. Sci. Eng., Kindai

Univ.) ○NAKAGAWA, Shiori; SAGA, Yoshitaka

- 1G2-29** Elucidation of the behavior of tumor accumulation by the functionalized position on tetraphenylporphyrin derivative (Grad. Sch. Fac. Sci. Technol., TUS) ○NISHIDA, Koshi; YUASA, Makoto; KONDO, Takeshi; TOJO, Toshihumi
- 1G2-30** Identification of anti-cancer drug-porphyrin complex to reduce side effects (Grad. Sch. Fac. Sci. Technol., TUS) ○WATANABE, Hiroya; TOJO, Toshifumi; KONDO, Takeshi; YUASA, Makoto
- 1G2-31** pH-Response mechanism of near-IR triple pH-activatable porphyrin for photodynamic therapy (Sch. Sci. Tech., Gunma Univ.) ○HORIUCHI, Hiroaki; TAJIMA, Kazuya; OKUTSU, Tetsuo

Chair: SAGA, Yoshitaka (14 : 20~15 : 10)

- * 14:10-14:20: interval for laptop PC connection.(1G2-33, 1G2-34, 1G2-35, 1G2-36, 1G2-37)
- 1G2-33** Elucidation of structure-phototoxicity relationship of D π A photosensitizer for photodynamic therapy. (Lab. Chem. Life Sci., Tokyo Tech.) ○MORIYA, Wataru; FUSE, Shinichiro; NAKAMURA, Hiroyuki
- 1G2-34** Identification of EZH2 inhibitors as a therapeutic target for cancer (Grad. Sch. Fac. Sci. Technol., TUS) ○MOMOSE, Haruki; TOJO, Toshifumi; KONDO, Takeshi; YUASA, Makoto
- 1G2-35** Evaluation of chloride ion efflux ability when external pressure is applied on mouse breast cancer cells (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ITO, Fumie; YAMAGISHI, Ayana; KIM, Hyonchol; NAKAMURA, Chikashi
- 1G2-36** Development of molecular probe for detection of the zinc ions by Raman spectroscopy (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○TAKEMURA, Seiya; WATANABE, Hikaru; KURIHARA, Ryohsuke; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 1G2-37** Synthesis and evaluation of molecular probe with high sensitivity for Raman imaging (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○WATANABE, Hikaru; TAKEMURA, Seiya; NISHIHARA, Tatsuya; TANABE, Kazuhito

Chair: KINBARA, Kazushi (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(1G2-39, 1G2-40, 1G2-42)
- 1G2-39** Stopped-flow ESR and optical absorption study for mechanisms of the redox reaction between superoxide anion radical and gallic acid derivatives in DMSO (KIT) ○NAKANO, Ryota; KUWABARA, Keiko; SAKURAI, Yasuhiro; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko
- 1G2-40^{##}** Transferrin-Modified Magnetic-Plasmonic Hybrid Nanoparticles for Imaging and Isolation of Cellular Organelles (Sch. Mat. Sci., JAIST) ○TAKAHASHI, Mari; HIRATSUKA, Yuichi; MATSUMURA, Kazuaki; TAGUCHI, Tomohiko; MAENOSONO, Shinya
- 1G2-42^{##}** Optogenetic approach to decode Akt-mediated metabolic signaling pathways (Grad. Sch. Sci., The Univ. of Tokyo) ○KAWAMURA, Genki; OZAWA, Takeaki

Chair: TANABE, Kazuhito (16 : 20~17 : 10)

- * 16:10-16:20: interval for laptop PC connection.(1G2-45, 1G2-47, 1G2-48)
- 1G2-45^{##}** Regulation of Cell Adhesion and Migration via Assembly of Synthetic Integrin Ligands (OIST) ○HU, Xunwu; ROY, Sonu; ZHANG, Qizheng; ZHANG, Ye
- 1G2-47** Searching for the fusion points NLuc for the fast-track construction of chemical sensors (Fac. Eng., Chiba Univ.) ○HISHINUMA, Miho; KOBAYASHI, Ikki; KAWAI-NOMA, Shigeo; UMENO, Daisuke
- 1G2-48^{##}** Tuning the reactivity of crosslink formation for sequence-selective DNA-protein conjugation (IAE, Kyoto Univ.) ○ZHANG, Zhengxiao; NAKATA, Eiji; THANG, Nguyen; SAIMURA, Masayuki; MATSUDA, Kazunari; MORII, Takashi

Chair: TAKAHASHI, Mari (17 : 20~18 : 00)

- * 17:10-17:20: interval for laptop PC connection.(1G2-51, 1G2-52, 1G2-53)
- 1G2-51** Synthesis of anthracene derivatives with acetylene tag for detection of singlet oxygen by Raman spectroscopy (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○KIMURA, Yuki; MIZUTANI, Tomotaka; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 1G2-52** Estimation of reactive species of CO₂ in the CO₂ reduction catalytic mechanism of formate dehydrogenase (Fac. Sci., Osaka City Univ.; OCARINA) ○SATO, Ryohei; IKEYAMA, Shusaku; AMAO, Yutaka
- 1G2-53^{##}** Effect of metal ion on the CO₂ addition by malic enzyme with viologen derivative (Grad. Sch. Sci., Osaka City Univ.; OCARINA) ○KATAGIRI, Takayuki; IKEYAMA, Shusaku; AMAO, Yutaka

Monday, March 23, AM

Biotechnology

Chair: TAKEUCHI, Toshifumi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2G2-01, 2G2-03, 2G2-05)
- 2G2-01^{##}** Acceleration of bacterial extracellular electron transfer based on interspecies interaction (Life and Env. Sci. Univ. of Tsukuba) ○TOKUNOU, Yoshihide; NOMURA, Nobuhiko; TOYOFUKU, Masanori
- 2G2-03^{##}** Sensing of Au³⁺ ions by microbial biofilms on a quartz crystal microbalance (OIST) ○FUNARI, Riccardo; SHEN, Amy

2G2-05[#] Development of a Hemocompatible Light Stimulation Responsive Platform for Drug Coated Balloons (Grad. Sch. Eng., The Univ. of Tokyo)
○MIZUNO, Hayato; ANRAKU, Yasutaka; SAKUMA, Ichiro; AKAGI, Yuki

Chair: NAKAMURA, Chikashi (10 : 10~11 : 00)

* 10:00-10:10: interval for laptop PC connection.(2G2-08, 2G2-09, 2G2-11)
2G2-08 Development of protein aggregates dissolvable under bioreduction in the target cells (Fac. Eng., The Univ. of Tokyo) ○YAMAMOTO, Kazuho; YAMAGUCHI, Satoshi; OKAMOTO, Akimitsu
2G2-09[#] Discovery of biomarker encoding the highly reactive molecules and application for disease diagnosis (Coll. Sci. Eng., Aoyama Gakuin Univ.)
○NISHIHARA, Tatsuya; MATSUDA, Shiori; TANABE, Kazuhito; SOGA, Tomoyoshi
2G2-11* Aptamer-fused exosome recognition nanocavities prepared by novel chemical nanoprocessing (Grad. Sch. Eng., Kobe Univ.) TAKAI, Minako; TAKANO, Eri; SUNAYAMA, Hirobumi; KITAYAMA, Yukiya; ○TAKEUCHI, Toshifumi

Chair: KOBATAKE, Eiry (11 : 10~11 : 50)

* 11:00-11:10: interval for laptop PC connection.(2G2-14, 2G2-16, 2G2-17)
2G2-14[#] Molecularly imprinted materials for high-sensitive sensing of tumor-maker protein prepared by molecular imprinting and post-imprinting modifications (Grad. Sch. Eng., Kobe Univ.) ○SUNAYAMA, Hirobumi; TAKEUCHI, Toshifumi
2G2-16 Evaluation of intracellular stability of protein modification with AtaA molecule (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAKO, Hinano; YAMAGISHI, Ayana; YOSHIMOTO, Shogo; SUZUKI, Kohei; HORI, Katsutoshi; NAKAMURA, Chikashi
2G2-17 Development of a method for direct delivery of genome-editing proteins into plant tissues using nanoneedle arrays (BRI, AIST; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HOSHI, Masamichi; MIYAZAWA, Yukino; YAMAGISHI, Ayana; FURUHATA, Yuichi; KATO, Yoshio; MAKIMOTO, Natsumi; TAKESHITA, Toshihiro; KOBAYASHI, Takeshi; NAKAMURA, Chikashi

Monday, March 23, PM

Biocatalytic reaction

Chair: AMAO, Yutaka (13 : 00~13 : 50)

* 12:50-13:00: interval for laptop PC connection.(2G2-25, 2G2-26, 2G2-27, 2G2-29)
2G2-25 The biotransformation of luteolin using the plant cultured cells (Fac. of Sci., Okayama Univ. of Sci.) FUJITAKA, Yuya; ○INOUE, Manami; YANAGI, Masayoshi; KAWAKAMI, Koki; SIMODA, Kei; OZAKI, Shinichi; HAMADA, Hiroki
2G2-26 The biotransformation of flavonoid using plant cultured cells (Fac. of Sci., Okayama Univ. of Sci.) ○KAWAKAMI, Koki; FUJITAKA, Yuya; INOUE, Manami; YANAGI, Masayoshi; SIMODA, Kei; OZAKI, Shinichi; HAMADA, Hiroki
2G2-27* Hydroxylation, methylation and glycosyltransferase using the plant cultured cells. (Fac. of Sci., Okayama Univ. of Sci.) ○HAMADA, Hiroki; OZAKI, Shinichi
2G2-29 Immobilization of thermophilic cytochrome P450 in the thermoresponsive poly(ionic liquid) gels. (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SAWADA, Maki; TAKEDA, Kouta; YOYODA, Masafumi; NAKAMURA, Nobuhumi

Chair: NAKAMURA, Nobufumi (14 : 00~14 : 40)

* 13:50-14:00: interval for laptop PC connection.(2G2-31, 2G2-33)
2G2-31[#] Activating Intracellular Enzyme by External Additives: Direct Oxidation of Hydrocarbons by P450BM3-Based Whole-Cell Biocatalyst (Grad. Sch. Sci., Nagoya Univ.) ○KARASAWA, Masayuki; YONEMURA, Kai; SUZUKI, Kazuto; STANFIELD, Joshua Kyle; WATANABE, Yoshihito; SHOJI, Osami
2G2-33[#] Ammonia production with nitrite reductase immobilized in a mesoporous silica nanoparticles assembly and artificial co-enzyme (OCARINA) ○IKEYAMA, Shusaku; TABE, Hiroyasu; OSHIMA, Hiroyuki; YAMADA, Yusuke; AMAO, Yutaka

Chair: HAMADA, Hiroki (17 : 00~17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2G2-49, 2G2-50, 2G2-51, 2G2-52)
2G2-49[#] Nanoflower reductase for green asymmetric synthesis (Sch. Life Sci. Tech., Tokyo Tech.) ○T.SRIWONG, Kotchakorn; KOESOEMA, Afifa Ayu; MATSUDA, Tomoko
2G2-50 Development of remote asymmetric protonation reaction by biocatalyst (Sch. Sci. Eng., Meisei Univ.) ○SAKURAI, Atsushi; TAKATSUKA, Daiki; FUHSHUKU, Ken-ichi
2G2-51 Preparation of optically active 2-nitroalcohols bearing a biphenyl group using enzymatic acylation (Sch. Sci. Eng., Meisei Univ.) ○FUKUCHI, Naoki; KITABAYASHI, Ryota; NAMIKI, Yohei; YAMANOUCHI, Asuka; MATSUMOTO, Kazutsugu
2G2-52[#] Genome mining for halogenase and structure elucidation of haloge-

nated compounds by the crystalline sponge method (Grad. Sch. Eng., The Univ. of Tokyo) ○CHEN, Jiazhuo; MITSUHASHI, Takaaki; FUJITA, Makoto

Tuesday, March 24, AM

Lipid

Chair: KAMACHI, Toshiaki (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3G2-01, 3G2-02, 3G2-03, 3G2-04, 3G2-05, 3G2-06)
3G2-01 Interactions of a unique glycolipid cholesteryl- β -glucoside with membrane lipids (Sch. Sci., Osaka Univ.) ○FUKUDA, Nanami; HANASHIMA, Shinya; RAYMOND, Malabed; MURATA, Michio; PETER, Greimel; HIRABAYASHI, Yoshio
3G2-02 Solid state NMR analysis of the rigid lactosylceramide domain in bilayer membrane (Grad. Sch. Sci., Osaka Univ.) ○MATSUBARA, Yuki; IKEDA, Ryuji; HANASHIMA, Shinya; MURATA, Michio
3G2-03 Design, Synthesis and Self-assembly of Amphiphiles Composed of Chiral C₂-Symmetric Alkaloidal Scaffold (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○TSUCHIYA, Nana; RYU, Yunosuke; MURAOKA, Takahiro; OGURI, Hiroki
3G2-04 Physico-chemical properties of lipophilic complex-rich domains formed in dimyristoylphosphatidylcholine (DMPC) bilayers. (Grad. Sch. Sci., Kyushu Univ.) ○WATANABE, Hikaru; KINOSHITA, Masanao; OHTANI, Ryo; MATSUMORI, Nobuaki
3G2-05 Low-flux electron-diffraction discloses the local structure of lipid membrane. (Fac. Sci., Kyushu Univ.) ○KINOSHITA, Masanao; YAMAGUHI, Shinpei; MATSUMORI, Nobuaki
3G2-06 Conformation and orientation of the acyl chains of 2H, 13C-doubly labeled sphingomyelin in bilayers elucidated by solid state NMR (Grad. Sch. Sci., Osaka Univ.) ○IMAI, Kayaki; MURATA, Michio; UMEGAWA, Yuichi

Chair: OGURI, Hiroki (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(3G2-08, 3G2-09, 3G2-10, 3G2-11, 3G2-13)
3G2-08 Behavior analysis of phospholipid containing DHA (Grad. Sch. Sci., Kyushu Univ.) ○TAJIMA, Yutaro; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3G2-09 Solid state NMR-derived membrane physical properties of inner leaflet phospholipid with selectively deuterated lipid (Grad. Sch. Sci., Osaka Univ.) ○MUKOGAWA, Akane; TSUCHIKAWA, Hiroshi; UMEGAWA, Yuichi; MURATA, Michio
3G2-10 Transmembrane Ion Transport by Multiblock Amphiphile Bearing Cationic Moiety (Sch. Life Sci. Tech., Tokyo Tech.; Grad. Sch. Eng., The Univ. of Tokyo) ○MORI, Miki; SATO, Kohei; TABATA, Kazuhito; NOJI, Hiroyuki; KINBARA, Kazushi
3G2-11[#] DNA hydrogel particle-stabilized artificial cells (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○ISHIKAWA, Daisuke; MURAYAMA, Toru; HARUTA, Masatake; HARA, Masahiko
3G2-13 High throughput screening of lipid rafts inhibitors (Grad. Sch. Sci., Kyushu Univ.) ○ONI, Ruiqi; KINOSHITA, Masanao; MATSUMORI, Nobuaki

Chair: KINBARA, Kazushi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3G2-15, 3G2-16, 3G2-17, 3G2-19, 3G2-20)
3G2-15 Elucidation of the oligomeric state of amphotericin B in lipid membranes based on solid-state NMR (Grad. Sch. Sci., Osaka Univ.) ○SUZUKI, Taiga; UMEGAWA, Yuichi; MURATA, Michio
3G2-16 Influence of local anesthetic molecules on lipid rafts formed in erythrocyte membranes (Grad. Sch. Sci., Kyushu Univ.) ○HASHIMOTO, Daisuke; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3G2-17[#] Evaluation of lateral interactions between membrane gangliosides and receptor transmembrane segments in lipid bilayers based on semi-quantitative fluorescence analysis (Grad. Sch. Sci., Osaka Univ.) ○NAKANO, Mikito; HANASHIMA, Shinya; HARA, Toshiaki; KABAYAMA, Kazuya; FUKASE, Koichi; MURATA, Michio; ANDO, Hiromune; SUZUKI, Kenichi G. N.; SLOTT, J. Peter
3G2-19 Analysis of the Distribution of the Transmembrane Protein Bacteriorhodopsin to the Membrane Domain (Grad. Sch. Sci., Kyushu Univ.) ○OMI, Yoshihiro; KINOSHITA, Masanao; MATSUMORI, Nobuaki
3G2-20 Interactions between bacteriorhodopsin and surrounding model lipids as revealed by solid state 31P NMR and circular dichroism (Grad. Sch. Sci., Osaka Univ.) ○KATO, Sho; MURATA, Michio

Tuesday, March 24, PM

Sugar

Chair: SERIZAWA, Takeshi (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(3G2-28, 3G2-30, 3G2-31, 3G2-32, 3G2-33)
3G2-28[#] Elucidation of sugar functions of antifreeze glycoprotein (Grad. Sch.

Sci., Osaka Univ.) ○SHIBATA, Hiroyuki; ORII, Ryo; MAKI, Yuta; FUKAMI, Daichi; TSUDA, Sakae; KAJIHARA, Yasuhiro; OKAMOTO, Ryo

3G2-30 Analysis of mucin type O-glycans expressed in castration resistant prostate cancer cells using saccharide primer method (Grad. Sch. Sci. Tech., Keio Univ.) ○YAMAMOTO, Daiki; SASAKI, Katsumasa; KOSAKA, Takeo; OYA, Mototsugu; SATO, Toshinori

3G2-31 Detection of influenza virus using microparticles modified with oligosaccharides obtained from influenza virus susceptible cells by saccharide primer method (Fac. Sci. Tech., Keio Univ.) ○TOKUDA, Kakeru; FUJIMOTO, Ryo; KOUNO, Risa; MATSUBARA, Teruhiko; SATO, Toshinori

3G2-32 Creation of homogeneous glycoprotein probes toward analysis of glycoprotein folding sensor enzyme (Fac. Sci. and Technol., Seikei Univ.) ○ISHII, Ryota; KURIBARA, Taiki; TOTANI, Kiichiro

3G2-33 Delivery of a synthetic Cholera Toxin B-subunit Bearing an Oligosaccharide to Golgi apparatus for Elucidation of the biosynthetic pathway of Glycan-branch formation. (Grad. Sch. Sci., Osaka Univ.; Grad. Sch. Health., Okayama Univ.) ○KAWATA, Kazuki; YOSHII, Yuya; MAKI, Yuta; OKAMOTO, Ryo; SATO, Ayano; KAJIHARA, Yasuhiro

Chair: SATO, Toshinori (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(3G2-35, 3G2-37, 3G2-39, 3G2-40)

3G2-35** Thioacid-based strategy for the semisynthesis of glycoproteins (Grad. Sch. Sci., Osaka Univ.) ○NOMURA, Kota; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

3G2-37** Development of hybrid binding inhibitor for calreticulin (Fac. Sci. and Technol., Seikei Univ.; Fac. Pharm., Yasuda Women's Univ.; RIKEN) ○KURIBARA, Taiki; SHIBAYAMA, Keita; HIRANO, Makoto; ADACHI, Yuka; TAKEDA, Yoichi; ITO, Yukishige; TOTANI, Kiichiro

3G2-39 Synthetic study of a homogeneous erythropoietin bearing a polylactosamine-type oligosaccharide (Grad. Sch. Sci., Osaka Univ.) ○NAKAMURA, Daichi; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

3G2-40 Top-Down Semisynthesis of Chondroitin Sulfate Library Varying Glycan Length Managed by Intramolecular Acid Catalyst (Grad. Sch. Sci., Osaka Univ.) ○MATSUI, Shotaro; KOBA, Atsumi; MANBO, Akihiro; MAKI, Yuta; OKAMOTO, Ryo; KAJIHARA, Yasuhiro

Chair: KAJIHARA, Yasuhiro (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3G2-42, 3G2-43, 3G2-44, 3G2-45, 3G2-46)

3G2-42 Synthetic study for heparan sulfate partial disaccharide structures containing GlcN-IdoA sequence (Grad. Sch. Sci., Eng., Kagoshima Univ.) ○SAMESHIMA, Kensuke; NAGAMOTO, Kotomi; ICHIYOSHI, Kenta; WAKAO, Masahiro; SUDA, Yasuo

3G2-43 Synthesis of uronic acid derivatives with unsaturated bond and their infection inhibitory activity against the Japanese encephalitis virus (Aichi Univ. of Educ.; Junior Col. Univ. Aizu) ○KONDO, Reo; HIDARI, Kazuya I. P. J.; NAKANO, Hirofumi

3G2-44 Structural control of enzymatically synthesized cellulose oligomers based on modulation of intermolecular interactions (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SAKURAI, Yuta; SAWADA, Toshiki; SERIZAWA, Takeshi

3G2-45 Preparation of cellulose oligomer assemblies with charged groups and their application to bio-functional materials (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YAMAGUCHI, Saeko; SAWADA, Toshiki; SERIZAWA, Takeshi

3G2-46** Controlled assembly of cellulose oligomers with hydrophilic moieties via their enzymatic synthesis (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NOHARA, Takatoshi; SAWADA, Toshiki; TANAKA, Hiroshi; SERIZAWA, Takeshi

Chair: TOTANI, Kiichiro (17 : 00~18 : 10)

* 16:50-17:00: interval for laptop PC connection.(3G2-49, 3G2-51, 3G2-52, 3G2-53, 3G2-54, 3G2-55)

3G2-49* Kinetic parameters of chemically synthesized sialyltransferase (Grad. Sch. Sci., Osaka Univ.) ○SHIMADA, Arisa; MAKI, Yuta; OKAMOTO, Ryo; IZUMI, Masayuki; ITO, Yukishige; KAJIHARA, Yasuhiro

3G2-51 Monitoring of Glycoprotein Quality Control System with UDP-5S-Glucose (Grad. Sch. Sci., Osaka Univ.) ○SAITO, Izumi; OTANI, Yuiko; MUKOGAWA, Yuki; YAMAUCHI, Miki; IZUMI, Masayuki; MAKI, Yuta; OKAMOTO, Ryo; ITO, Yukishige; KAJIHARA, Yasuhiro

3G2-52 One-pot and chemo-enzymatic synthesis of glycopolymers using a triazine glycoside (KIT) ○TANAKA, Tomonari; MATSUURA, Ayane

3G2-53 Generation of inhibitor libraries for GalNAc4S-6ST and its inhibition mode (Aichi Univ. of Educ.) ○GOTO, Yuta; TSUCHIMOTO, Jun; SUGIURA, Nobuo; WATANABE, Hideto; HABUCHI, Osami; HIDARI, Kazuya I. P. J.; NAKANO, Hirofumi

3G2-54 Stereoselective synthesis of P-modified glycosyl phosphate analogues derived from Leishmania (Fac. Pharm. Sci., TUS) ○HAGIO, Tomoya; YAOITA, Aya; SANO, Michi; NORO, Mihoko; HARA, Rintaro; SATO, Kazuki; WADA, Takeshi

3G2-55 Stereoselective Synthesis of Furanosyl Sulfones and Their Application to Julia-Kocienski Reaction (Fac. Eng., Gifu Univ.) ○OKA, Natsuhisa; MORI, Ayumi; SUZUKI, Kanna; ANDO, Kaori

Wednesday, March 25, AM

Biotechnology

Chair: TAMIAMI, Hitoshi (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4G2-01, 4G2-02, 4G2-03, 4G2-04, 4G2-05)

4G2-01# Development of Highly Sensitive Ion Sensor Using Rare-metal Trapping DNA Aptamer (Grad. Sch. Sci. and Technol., Niigata Univ.) ○MIZUNUMA, Masataka; KANEKO, Atsushi; WATARI, Miyuu; SAITO, Hikaru; FURUKAWA, Kazuhiro; CHUMAN, Yoshiro

4G2-02 Alkaloid biosensors based on biosynthetic enzymes (Fac. Eng., Chiba Univ.) ○NONOSHITA, Mei; KIMURA, Yuki; OTANI, Yusuke; KOBAYASHI, Ikki; NAKAGAWA, Akira; MINAMI, Hiromichi; KAWAI-NOMA, Shigeo; UMENO, Daisuke

4G2-03 Synthesis of a peptide-modified cyclodextrin by a Michael addition reaction and its intracellular delivery. (Grad. Sch. Eng., Doshisha Univ.) ○HIRATA, Kyouzuke; MAO, Qiyue; KITAGISHI, Hiroaki

4G2-04 Development of a new carbon monoxide releasing molecule(CORM) with high cell membrane permeability (Grad. Sch. Eng., Doshisha Univ.; Grad. Sch. Eng., Doshisha Univ.) ○TAKAYAMA, Mikako; MAO, Qiyue; KITAGISHI, Hiroaki

4G2-05* Development of skin sensitization testing for enlarged substances using human monocyte-derived cell line (Grad. Fac. Eng., Yokohama Natl. Univ.; Grad. Sch. Eng. Sci, Yokohama Natl. Univ.; Coll. Eng. Sci., Yokohama Natl. Univ.; Grad. Sch. Eng., Yokohama Natl. Univ.; Itagaki Cosmetics Safety Consulting) ○IJIMA, Kazutoshi; SAWADA, Yuka; MIURA, Yumi; NISHIDA, Asuka; KOBAYASHI, Hanae; FUKUDA, Junji; ITAGAKI, Hiroshi

Chair: SAITO, Masato (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4G2-08, 4G2-09, 4G2-10, 4G2-11, 4G2-12, 4G2-13)

4G2-08 Zwitterions as low-toxic cryoprotectants for cells (Coll. Sci. Eng., Kanazawa Univ.) ○KATO, Yui; TAKAHASHI, Kenji; NINOMIYA, Kazuaki; HIRATA, Eishu; ISHIBASHI, Kojiro; KURODA, Kosuke

4G2-09 Development of a photo-responsive substrate for cell patterning and collection (Fac. Eng., The Univ. of Tokyo) ○UEHARA, Renjiro; YAMAGUCHI, Satoshi; KOSAKA, Takahiro; YAMAHIRA, Shinya; OKAMOTO, Akimitsu

4G2-10 Construction of cartilage-subchondral bone tissues from mesenchymal stem cells utilizing functionalized hydrogels (Coll. Eng. Sci., Yokohama Natl. Univ.) ○YAMAUCHI, Kazuki; TAKENAKA, Kosuke; IJIMA, Kazutoshi

4G2-11 Diels-Alder reactivity of chlorophyll derivatives bearing a diene functional group at the 3-position with unsymmetric dienophiles (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○MAEDA, Hiroaki

4G2-12 Synthesis and Self-Aggregation of Bacteriochlorophyll *d* Analogs Inserting Rigid Linkers at the C3-Position (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○NAKANO, Takeo; TAMIAMI, Hitoshi

4G2-13 Synthesis of chlorophyll derivatives as photosensitizers for solar hydrogen production systems and their properties. (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○HASHIMOTO, Yuki; SUZUKI, Hajime; ABE, Ryu

Chair: KITAGISHI, Hiroaki (11 : 20~12 : 30)

* 11:10-11:20: interval for laptop PC connection.(4G2-15, 4G2-16, 4G2-17, 4G2-18, 4G2-19, 4G2-20)

4G2-15 Identification of antigen-specific T cell interaction by on-chip calcium flux monitoring (Grad. Sch. Eng., Osaka Univ.) ○IDE, Hiroki; ESPULGAR, Wilfred; SAITO, Masato; AOSHI, Taiki; HASEDA, Yasunari; TAMIAMI, Eiichi

4G2-16# Cauliflower-like Au nanostructure LSPR biosensor for single cell IL-6 secretion detection (AIST PhotoBIO-OIL) ○LUO, Xi; ZHU, Chen; OBARA, Ain; TERADA, Yuhei; SAITO, Masato; TAMIAMI, Eiichi

4G2-17 Glycopolymer immobilized Au-capped nanopillar biosensor (AIST-Osaka Univ. PhotoBIO-OIL) ○TERADA, Yuhei; LUO, Xi; OBARA, Ain; SAITO, Masato; TAMIAMI, Eiichi

4G2-18 Detection of breast cancer cells using a high integrated cell microarray chip (Health Research Inst., AIST) ○YAMAMURA, Shohei; KIMURA, Fukiko; YAMADA, Eriko; SHIGETO, Hajime

4G2-19 Development of a precise and large-scale genome editing method (Sch. Life Sci. Tech., Tokyo Tech.) ○KONO, Shunya; OHNO, Tomoyuki; AIZAWA, Yasunori

4G2-20** Withdrawn

Room G3

Lecture Hall Bldg. K509

Organic Chemistry -Reaction and Synthesis- Heteroatom Compounds

Sunday, March 22, AM

Chair: MITSUNUMA, Harunobu (9 : 30 ~10 : 20)

* 9:20-9:30: interval for laptop PC connection.(1G3-04, 1G3-05, 1G3-06, 1G3-07, 1G3-08)

1G3-04 Synthesis of Hexafluorocyclopentene Bridged P,O-Chelate Ligands and Their Use for Transition Metal Complexes (Grad. Sch. Sci. Eng., Ibaraki Univ.) OKOMASTU, Momoko; AGOU, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio

1G3-05 Synthesis and Application of Bulky Bisphosphine Ligands Bearing a Hexafluorocyclopentene Moiety as the Bridging Unit (Grad. Sch. Sci. Eng., Ibaraki Univ.) ONOHARA, Miki; AGO, Tomohiro; FUKUMOTO, Hiroki; KUBOTA, Toshio

1G3-06 Development of Difluoromethyl-Boron Agent by Using Borates (Sch. Mater. & Chem. Tech., Tokyo Tech.) YOKAWA, Akitaka; ITO, Shigekazu

1G3-07 Synthesis of α -tetrafluorosulfonyl-methylketones (Grad. Sch. Eng., Nagoya Inst. of Tech.) TANAGAWA, Kazuhiro; NIINA, Kiyoteru; IWAKI, Kentarou; SHIBATA, Norio

1G3-08 Selective generation and reaction of perfluoroalkyllithium. (Grad. Sch. Sci. Tech., Gunma Univ.) KOGURE, Tatsuya; WATANABE, Tokiwa; SUGIISHI, Tsuyuka; AMII, Hideki

Chair: KINOSHITA, Hidenori (10 : 30~11 : 20)

* 10:20-10:30: interval for laptop PC connection.(1G3-10, 1G3-11, 1G3-12, 1G3-13, 1G3-14)

1G3-10 Silver-Catalyzed Selective Ligand Coupling of Diaryliodonium(III) Salts with Fluorine-Containing Carboxylates (Coll. Pharm. Sci., Ritsumeikan Univ.) KOMIYAMA, Keina; KIKUSHIMA, Kotaro; SAITO, Mina; KITA, Yasuyuki; DOHI, Toshifumi

1G3-11 Direct sulfidation of electron-deficient aromatic compounds utilizing palladium catalyst or molecular iodine. (Fac. Sci. Technol., TUS) TSUKAHARA, Shouya; NISHINO, Kota; OGIWARA, Yohei; SAKAI, Norio

1G3-12[#] Control of regioselectivity in oxidative cyclization by nitrogen-containing heterocyclic moiety on carbon framework of organic hypervalent iodine (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; OFUJIE, Masaki; YASUDA, Makoto

1G3-13 Synthesis and Characterization of Heptacoordinated Methylstibonium cation (Grad. Sch. Sci., TMU) SAKABE, Masato; SATO, Soichi

1G3-14 Study on the reaction of dibismuthine compounds with aryl halides (NIT, Tokyo College) YUMOTO, Mao; SHIMADA, Shigeru; MACHIDA, Shigeru

Chair: TSURUGI, Hayato (11 : 30~12 : 20)

* 11:20-11:30: interval for laptop PC connection.(1G3-16, 1G3-17, 1G3-18, 1G3-19, 1G3-20)

1G3-16 Catalytic Hydrogenation of Pyridine Derivatives Mediated by Frustrated Lewis Pairs (Sch. Eng., Osaka Univ.) HASHIMOTO, Taiki; ASADA, Takahiro; HOSHIMOTO, Yoichi; OGOSHI, Senseke

1G3-17 The structure and reactivity of a bis(diarylboryl)methyl anion (Grad. Sch. Eng., Nagoya Univ.) AKIYAMA, Seiji; YAMASHITA, Makoto

1G3-18 Synthesis and property of a Dbb-based butadiene derivative with BODIPY groups at both terminals (Grad. Sch. Sci., Eng., Saitama Univ.) SHIBATA, Naoaki; NAKATA, Norio; ISHII, Akihiko

1G3-19 Synthesis and evaluation of ability of novel weakly coordinating anions based on carborane anion scaffold (Grad. Sch. Pharm., The Univ. of Tokyo) WATANABE, Mamoru; KITAZAWA, Yu; KANAZAWA, Junichiro; MIYAMOTO, Kazunori; UCHIYAMA, Masanobu

1G3-20 One Pot Incorporation of Nucleophiles to Cyclic Hemiacetal Aldols: Ring Opening Strategy Promoted by Amine Pendant Boronic Acid (Grad. Sch. Pharm., The Univ. of Tokyo) HIRAO, Yuki; KANZAKI, Yamato; MITSUNUMA, Harunobu; KANAI, Motomu

Sunday, March 22, PM

Chair: SUGAMATA, Koh (13 : 30~14 : 20)

* 13:20-13:30: interval for laptop PC connection.(1G3-28, 1G3-29, 1G3-30, 1G3-31, 1G3-32)

1G3-28 Preparation and Optical Properties of Subphthalocyanines with Trithiole Rings (#Organization for Research Promotion, Iwate Univ.) KIMURA, Takeshi; BABA, Mizue

1G3-29 Synthesis, Structure and Characterization of Silole-cored Star-shaped Molecules with Aryl-functionalized Thiophene Side Arms (Faculty of Science and Engineering, Iwate University) KUBOTA, Raiya; MURAOKA,

Hiroki; OGAWA, Satoshi

1G3-30 Chemoselective Reduction of Sulfoxides into Sulfides Using Bis (catecholato)diboron as a Deoxygenating Reagent (Dep. Chem., Sch. Sci., Kyoto Univ.) TAKAHASHI, Fumiya; NOGI, Keisuke; YORIMITSU, Hideki

1G3-31 Synthesis and polymer properties of poly(arylene sulfane ketone) (Faculty of Science and Engineering, Iwate University) MIURA, Wataru; MURAOKA, Hiroki; OGAWA, Satoshi

1G3-32 Synthesis and characterization of (3-hydroxy-2-thienyl)-1,3,5-triazine derivatives functionalized with donor- or acceptor-type aryl groups (Fac. of Sci. and Engin., Iwate Univ.) TAGUCHI, Yusuke; MURAOKA, Hiroki; OGAWA, Satoshi

Chair: SUGIISHI, Tsuyuka (14 : 30~15 : 20)

* 14:20-14:30: interval for laptop PC connection.(1G3-34, 1G3-35, 1G3-36, 1G3-37, 1G3-38)

1G3-34 A Novel ($\sigma + \pi$) Double Aromatic Compound: Synthesis and Properties of 1,4-Diiodo-2,3,5,6-tetraselenyl Benzene Dication (Grad. Sch. Sci., Eng., Saitama Univ.) WATANABE, Airi; FURUKAWA, Shunsuke; SAITO, Masaichi

1G3-35 Synthesis of Indoles from Ketene Dithioacetal Monoxides and N-Sulfonylanilines through [3,3] Sigmatropic Rearrangement (Dep. Chem., Sch. Sci., Kyoto Univ.) KINOSHITA, Jun; YOSHIDA, Akira; OKAMOTO, Koichi; YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki

1G3-36 Mechanistic Investigation of Dehydrogenative Coupling of Aryl Sulfoxides with Phenols (Dep. Chem., Sch. Sci., Kyoto Univ.) YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki

1G3-37 Catalytic Synthesis of Sulfoxides from Sulfinate Esters (IBB, Tokyo Med. and Dental Univ.) SUZUKI, Minoru; KANEMOTO, Kazuya; HOSOYA, Takamitsu; YOSHIDA, Suguru

1G3-38 Facile Synthesis of Diverse Sulfoxides via Activation of Sulfinate Esters (IBB, Tokyo Med. and Dental Univ.) KOBAYASHI, Akihiro; MATSUZAWA, Tsubasa; HOSOYA, Takamitsu; YOSHIDA, Suguru

Chair: ISOZAKI, Katsuhiko (15 : 30~16 : 20)

* 15:20-15:30: interval for laptop PC connection.(1G3-40, 1G3-41, 1G3-42, 1G3-43, 1G3-44)

1G3-40 Synthesis of optically active phosphine oxides by the substitution reaction of P-chiral phosphinic acid esters on the phosphorus atom. (Fac. Eng., Gifu Univ.) ONO, Shunya; KUWABARA, Kazuma; SUGIYAMA, Aya; MURAI, Toshiaki

1G3-41 Ring-Opening Diphosphination of Vinyl- and Methylene-cyclopropanes with Diphosphanes under Visible-Light-Promoted Photoredox Catalysis (Grad. Sch. Eng., Osaka Univ.) KATO, Yugo; OTOMURA, Nobutaka; HIRANO, Koji; MIURA, Masahiro

1G3-42 Direct Synthesis of Dibenzophospholes via Phosphenium Dication Equivalents (Grad. Sch. Eng., Osaka Univ.) NISHIMURA, Kazutoshi; HIRANO, Koji; MIURA, Masahiro

1G3-43 Synthesis of Phosphole Derivatives from Fluorine-Substituted Phosphines and Arynes (Grad. Sch. Eng., Osaka Univ.) KUSANO, Momoka; FUJIMOTO, Hayato; KODAMA, Takuya; TOBISU, Mamoru

1G3-44[#] Phosphine-Catalyzed Acylfluorination of Alkynes (Grad. Sch. Eng., Osaka Univ.) FUJIMOTO, Hayato; TOBISU, Mamoru

Chair: IMOTO, Hiroaki (16 : 30~17 : 20)

* 16:20-16:30: interval for laptop PC connection.(1G3-46, 1G3-47, 1G3-48, 1G3-49, 1G3-50)

1G3-46[#] Selective C-P Bond Cleavage of Phosphine Oxides by Sodium (IRC3, AIST; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) HAN, Li-biao; ZHANG, Jian-qiu

1G3-47 Synthesis of dinucleotides containing a phosphate triester and the application to siRNA (Grad. Sch. Eng., KIT) TUBAKI, Kota; SHIMOOKA, Hirokazu; KITAMURA, Mitsuru; MATTHEW, Hammill; JEAN-PAUL, Desaulniers; OKAUCHI, Tatsuo

1G3-48 Synthesis of Novel Optically Active P*N*-Ligands and Their Application in Catalytic Asymmetric Reactions (ICR, Kyoto Univ.; Sch. Eng., Kyoto Univ.) NOMURA, Satsuki; IWAMOTO, Takahiro; IMAMOTO, Tsuneo; NAKAMURA, Masaharu

1G3-49 Synthesis of a Bridged Bidentate Bisdiphosphene Ligand bearing 1,1'-Binaphthyl groups (Grad. Sch. Sci., Osaka Pref. Univ.) OURA, Rikako; TSURUSAKI, Akihiro; KAMIKAWA, Ken

1G3-50 Development of phosphorylation of alcohol applicable for late-stage synthesis. (Grad. Sch. Pharm., The Univ. of Tokyo) FUJIYOSHI, Kohei; DOMON, Kenji; PURIPAT, Maneeporn; HATANAKA, Miho; KAWASHIMA, Shigehiro; YAMATSUGU, Kenzo; KANAI, Motomu

Monday, March 23, AM

Chair: YOSHIDA, Suguru (10 : 00~10 : 50)

* 9:50-10:00: interval for laptop PC connection.(2G3-07, 2G3-08, 2G3-09, 2G3-10, 2G3-11)

2G3-07 Synthesis and complexation of a diphosphene-phosphineborane ligand (Grad. Sch. Sci., Osaka Pref. Univ.) TAKECHI, Shingo; TSURUSAKI, Akihiro; KAMIKAWA, Ken

2G3-08 Synthetic Studies of Porphyrin Containing Phosphorus Atoms as a

- Skeletal Element (ICR, Kyoto Univ.) ○JUN-I, Yuta; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2G3-09** Synthetic Study of Sterically Protected Quinoid Compounds Containing Phosphorus and Silicon Atoms (Grad. Sch. Sci., Tohoku Univ.) ○SATO, Takehiro; SASAKI, Shigeru; IWAMOTO, Takeaki
- 2G3-10** Reaction of fused ring compounds bearing phosphorus and boron atoms at the bridgehead positions (Fac. Sci., Gakushuin Univ.) ○AOKI, Kosuke; MATSUDA, Yui; MOROFUJI, Tatsuya; KANO, Naokazu
- 2G3-11** Synthesis and structure of a fused ring compound bearing phosphorus and aluminum atoms at bridgehead positions (Fac. Sci., Gakushuin Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ○YAMAGUCHI, Koki; KODA, Yoichiro; MOROFUJI, Tatsuya; KANO, Naokazu

Chair: TSURUSAKI, Akihiro (11 : 00~11 : 50)

- * 10:50-11:00: interval for laptop PC connection.(2G3-13, 2G3-14, 2G3-15, 2G3-16, 2G3-17)
- 2G3-13** Development of Novel Methods for Introduction of Nitrogen-containing Functional Groups by Utilizing Characteristics of Electrophilic Species Containing a Selenium-Iodine Bond (Sch. Sci., Tokyo Tech.) ○ISHIKAWA, Yo; SASE, Syohei; GOTO, Kei
- 2G3-14** Development of Tandem Cyclization Reactions by Taking Advantage of Alkene Activation Mediated by Electrophilic Species Containing a Selenium-Iodine Bond (Sch. Sci., Tokyo Tech.) ○NAKADA, Takaaki; SASE, Shohei; GOTO, Kei
- 2G3-15** Intramolecular Cyclization Behavior of Selenocarbonyl Group to Carbon-Carbon Triple Bond (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○NAKAMURA, Kana; FURUYAMA, Taniyuki; MAEDA, Hajime; SEGI, Masahito
- 2G3-16** Synthesis of unsymmetrical biaryls by reaction of aryllithiums with *S*-aryphenothiazinium ions (Fac. Sci., Gakushuin Univ.) ○YOSHIDA, Tatsuki; MOROFUJI, Tatsuya; KANO, Naokazu
- 2G3-17** Computational study of reactions of aryllithiums with *S*-aryphenothiazinium ions (Fac. Sci., Gakushuin Univ.; Coll. Sci., Rikkyo Univ.) ○MOROFUJI, Tatsuya; YOSHIDA, Tatsuki; TSUTSUMI, Ryosuke; YAMANAKA, Masahiro; KANO, Naokazu

Monday, March 23, PM

Chair: FURUKAWA, Shunsuke (14 : 30~15 : 20)

- * 14:20-14:30: interval for laptop PC connection.(2G3-34, 2G3-35, 2G3-36, 2G3-37, 2G3-38)
- 2G3-34** Studies on the Reactivity of Silicon Compounds Having an Anionic Substituent. (ICR, Kyoto Univ.) ○IWAI, Kento; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 2G3-35** Attempted Synthesis of a Bis(ferrocenyl)silylene (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○PAN, Yang; SASAMORI, Takahiro
- 2G3-36** Diisobutylaluminum Hydride-Promoted Synthesis of Unsymmetrically Multisubstituted Germoles (Grad. Sch. Sci., Eng., Saitama Univ.) ○KOJIMA, Ko; KINOSHITA, Hidenori; MIURA, Katsukiyo
- 2G3-37** Synthesis and property of 1-stanna-1,3-butadiene derivative incorporated in dibenzobarrelene skeleton (Grad. Sch. Sci., Eng., Saitama Univ.) ○MIYASHITA, Yasuha; NAKATA, Norio; ISHII, Akihiko
- 2G3-38** Synthesis of Low-coordinated Organotin Compounds bearing a Bulky Ferrocenyl Group. (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○SHIBATA, Masashi; MAJHI, Paresh Kumar; SASAMORI, Takahiro

Chair: NOGI, Keisuke (15 : 30~16 : 20)

- * 15:20-15:30: interval for laptop PC connection.(2G3-40, 2G3-41, 2G3-42, 2G3-43, 2G3-44)
- 2G3-40** Generation of a Phosphine Complex of 5H-Dibenzogermole-5-ylidene Derivative. (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○NORO, Kohsuke; SASAMORI, Takahiro
- 2G3-41** Synthesis of arsacrown ethers and their structures (KIT) ○SUMIDA, Akifumi; KOBAYASHI, Ryosuke; IMOTO, Hiroaki; NAKA, Kensuke
- 2G3-42** Synthesis and Metal Complexes of NAN-type Pincer Ligand (KIT) ○KIYHARA, Hyota; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke
- 2G3-43** Control of electronic properties of dipyridinoarsole by chemoselective modification (KIT) ○FUJII, Toshiki; TANAKA, Susumu; HAYASHI, Shotaro; IMOTO, Hiroaki; NAKA, Kensuke
- 2G3-44** Development of Catalytic Arsa-Wittig Reaction (KIT) ○INABA, Ryoto; KAWASHIMA, Ikuo; FUJII, Toshiki; TANAKA, Susumu; IMOTO, Hiroaki; NAKA, Kensuke

Chair: HIRANO, Koji (16 : 30~17 : 20)

- * 16:20-16:30: interval for laptop PC connection.(2G3-46, 2G3-47, 2G3-48, 2G3-50)
- 2G3-46** Alkylation of Pyrazine Rings by Treating N,N'-Bis(trimethylsilyl)-dihydropyrazine Derivatives with Carbonyl Compounds (Grad. Sch. Eng. Sci., Osaka Univ.) ○MATSUNO, Minami; TSURUGI, Hayato; MASHIMA, Kazushi
- 2G3-47** Synthesis and properties of heterocyclic aromatic compounds containing diketopiperazine skeleton (Grad. Sch. Sci., Osaka City Univ.) ○MAEDA, Kosuke; KOZAKI, Masatoshi; TACHI, Yoshimitu
- 2G3-48^{##}** Synthesis of Divergent Organosulfur Compounds Using Electrophilic

- Thiosulfonylation Reaction (Fac. Sci. Eng., Chuo Univ.) ○KANEMOTO, Kazuya; FURUHASHI, Koudai; FUKUZAWA, Shin-ichi
- 2G3-50** Development of Thiosulfonylation Reaction of Activated Alkenes Using Potassium Thiosulfonate (Fac. Sci. Eng., Chuo Univ.) ○WATANABE, Tokiharu; KANEMOTO, Kazuya; FURUHASHI, Koudai; TORITA, Koki; FUKUZAWA, Shin-ichi

Tuesday, March 24, AM

Chair: MOROFUJI, Tatsuya (9 : 30~10 : 20)

- * 9:20-9:30: interval for laptop PC connection.(3G3-04, 3G3-05, 3G3-06, 3G3-07, 3G3-08)
- 3G3-04[#]** Development of asymmetric catalyst bearing dithienylethene and application (ISIR, Osaka Univ.) ○WAKABAYASHI, Yoshitomo; NAKAMURA, Kento; KONDO, Masaru; SASAI, Hiroaki
- 3G3-05[#]** Development of photoresponsive chiral pyridine-oxazoline ligand (ISIR, Osaka Univ.) ○NAKAMURA, Kento; KONDO, Masaru; SASAI, Hiroaki
- 3G3-06[#]** Development of novel photoisomerizable organocatalysts (ISIR, Osaka Univ.) ○KONDO, Masaru; NAKAMURA, Kento; WAKABAYASHI, Yoshitomo; SASAI, Hiroaki
- 3G3-07** Reaction rate analysis of synthetic reaction of a disilacyclohexadiene derivative (NIT, Tokyo College) ○FUKUMITSU, Masato; SHIMADA, Shigeru; MACHIDA, Shigeru
- 3G3-08** Synthesis of tellurium salts bearing *o*-(Ph₂P)C₆H₄ ligands. (Grad. Sch. Sci., TMU) ○ICHIMURA, Kazuki; SAKABE, Masato; SATO, Soichi

Chair: HOSHIMOTO, Yoichi (10 : 30~11 : 20)

- * 10:20-10:30: interval for laptop PC connection.(3G3-10, 3G3-12, 3G3-13, 3G3-14)
- 3G3-10^{##}** Pd-catalyzed enantioselective synthesis of 9-membered trifluoromethyl-heterocycles via ring expansion (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○UNO, Hiroto; PUNNA, Nagender; TOKUNAGA, Etsuko; SHIBATA, Norio
- 3G3-12** Catalytic synthesis of 12-membered heterocyclic compounds having a trifluoromethyl carbinol moiety (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○IMAI, Takanori; UNO, Hiroto; HARADA, Kyosuke; SHIBATA, Norio
- 3G3-13** Synthesis of difluoromethylene compounds using fluorinated benzo-cyclobutenone derivatives (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAKEUCHI, Motoaki; KOMODA, Kazuki; SUGIISHI, Tsuyuka; AMII, Hideki
- 3G3-14** Synthesis of Novel Electrophilic Fluorinating Reagents Prepared from Fluorine Gas and Its Application to Fluorination Reactions (Grad. Sch. Eng., The Univ. of Tokyo) ○ADACHI, Akiya; AIKAWA, Kohsuke; ISHIBASHI, Yuichiro; OKAZOE, Takashi; NOZAKI, Kyoko

Chair: SASAKI, Ikuo (11 : 30~12 : 20)

- * 11:20-11:30: interval for laptop PC connection.(3G3-16, 3G3-17, 3G3-18, 3G3-19)
- 3G3-16** Synthesis of [8]Heterocirculene starting from [7]Thiaheterohelicene Derivative (Grad. Sch. Sys. Eng., Wakayama Univ.) ○NAKANISHI, Tatsuya; OSUGA, Hideji; SAKAMOTO, Hidefumi
- 3G3-17** Synthesis and Structures of (chalcogeno)silylcarbene gold(I) complexes (Coll. Sci., Rikkyo Univ.) ○URAO, Yukiko; SUGAMATA, Koh; MINOURA, Mao
- 3G3-18** Synthesis of Stable Cysteine-derived *N*-Hydroxysulfenamides and Elucidation of Their Reactivity (Sch. Sci., Tokyo Tech.) ○YAMAGUCHI, Misuzu; SASE, Shohei; GOTO, Kei
- 3G3-19^{##}** Model Study on the Reaction Mechanism of GPx: Synthesis and Elucidation of Reactivities of Selenopeptide-derived Selenenic Acids (Sch. Sci., Tokyo Tech.) ○MASUDA, Ryosuke; KARASAKI, Takafumi; KIMURA, Ryutarou; SASE, Shohei; GOTO, Kei

Tuesday, March 24, PM

Chair: NISHIMOTO, Yoshihiro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3G3-28, 3G3-30, 3G3-32)
- 3G3-28^{*}** Tripeptide-Catalyzed Direct Asymmetric Aldol Reaction of Activated Ketones (Fac. Eng., Kitami Inst. of Tech.) ○KON, Kazumasa; KOHARI, Toshihito; MURATA, Miki
- 3G3-30^{*}** Application of AFIR: Synthesis of Fluorinated Amino Acids by Three Component Coupling Reaction (WPI-ICReDD, Hokkaido Univ.) ○MITA, Tsuyoshi; HARABUCHI, Yu; MAEDA, Satoshi
- 3G3-32^{*}** Synthesis of cyclotriphosphazene derivatives having multi kinds of substituents (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KUROBOSHI, Manabu; UENO, Ayako; KAWANO, Ayane; TANAKA, Hideo

Chair: TAKAYA, Jun (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3G3-35, 3G3-37, 3G3-39)
- 3G3-35^{##}** Synthesis, Structure and Reaction of the Disilene Dianion Bearing Extended Triptycyl Groups (Coll. Sci., Rikkyo Univ.) ○NISHINO, Ryohei; MINOURA, Mao
- 3G3-37^{##}** Development and Mechanistic Study of CsF-Catalyzed Pentafluoroethylation of Aromatic Acyl Fluoride Using Tetrafluoroethylene (Grad. Sch.

Eng., Osaka Univ.) OISHIDA, Naoyoshi; SUNAGAWA, Denise Eimi; IWAMOTO, Hiroaki; OHASHI, Masato; OGOSHI, Sensuke

3G3-39[#] Synthesis of Diamino-dibenz[*a,h*]anthracenes via Tandem Transformation of Phosphoryl Ynamines (Fac. of Eng., Okayama Univ. of Sci.) OOKUDA, Yasuhiro; SABATO, Taisei; ADACHI, Kazumasa; ORITA, Akihiro

Chair: YAMASHITA, Makoto (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(3G3-42, 3G3-44, 3G3-46)

3G3-42[#] 4,4'-Bipyridyl-Catalyzed Reduction of Nitroarenes by Diboron Derivatives (Grad. Sch. Eng. Sci., Osaka Univ.) OHOSOYA, Hiromu; MISAL CASTRO, Luis Carlos; SULTAN, Ibrahim; NAKAJIMA, Yumiko; OHMURA, Toshimichi; SATO, Kazuhiko; TSURUGI, Hayato; SUGINOME, Michinori; MASHIMA, Kazushi

3G3-44[#] Small molecule activation reactions by a single bond between heavier main group elements (ICR, Kyoto Univ.) OYANAGISAWA, Tatsuya; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

3G3-46[#] Photo-Promoted Skeletal Rearrangement of Ambiphilic Phosphine-Boranes via Cleavage of an Unstrained Carbon-Carbon σ -Bond (Sch. Sci., Tokyo Tech.) OITO, Tatsuyoshi; IWASAWA, Nobuharu; TAKAYA, Jun

Chair: MIZUHATA, Yoshiyuki (17 : 00~18 : 00)

* 16:50-17:00: interval for laptop PC connection.(3G3-49, 3G3-51, 3G3-53)

3G3-49[#] Properties and reactivity of silicon- and boron-containing reduced 2,2'-bipyridyl compounds (Grad. Sch. Eng. Sci., Osaka Univ.) OPARKER, Bernard; TSURUGI, Hayato; ARNOLD, John; MASHIMA, Kazushi

3G3-51[#] Synthesis and Property of Alkyl-Substituted Al Anion (Grad. Sch. Eng., Nagoya Univ.) OKURUMADA, Satoshi; SUGITA, Kengo; NAKANO, Ryo; YAMASHITA, Makoto

3G3-53[#] Reactivity of Alkyl-Substituted Al Anion toward unsaturated hydrocarbons and early metal complexes (Grad. Sch. Eng., Nagoya Univ.) OSUGITA, Kengo; NAKANO, Ryo; YAMASHITA, Makoto

Room G4

Lecture Hall Bldg. K510

Coordination Chemistry, Organometallic Chemistry

Sunday, March 22, PM

Ce

Chair: YUASA, Junpei (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1G4-23, 1G4-24, 1G4-25, 1G4-26, 1G4-27)

1G4-23 Synthesis and Characterization of Alkoxide-bridged Cerium-copper Trinuclear Complexes with 2,6-Dimethylphenylisocyanide Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) OIKEDA, Yuri; SHINOHARA, Koichi; SHIRASE, Satoru; TSURUGI, Hayato; MASHIMA, Kazushi

1G4-24[#] Synthesis and Reduction of Hexanuclear Cerium(IV) Carboxylate Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) OSHIRASE, Satoru; TSURUGI, Hayato; MASHIMA, Kazushi

1G4-25 Aerobic Oxidation Catalyzed by Hetero Tetranuclear Complexes Including Cerium and First Low Transition Metals (Grad. Sch. Eng. Sci., Osaka Univ.) OSAKAMOTO, Kazutaka; FUJIWARA, Sakiko; NAGAE, Haruki; KON, Yoshihiro; SATO, Kazuhiko; OKUDA, Jun; MASHIMA, Kazushi

Eu

1G4-26 Systematic synthesis and evaluation of metal-organic frameworks (MOFs) with integrated lanthanide clusters (Sch. Sci. Tech., Kwansei Gakuin Univ.) OTERADO, Emi; KITAMURA, Yu; TANAKA, Daisuke

1G4-27[#] Circularly Polarised Luminescence of lanthanide complexes based on achiral bis- or tris-beta-diketonates and chiral bis(oxazolonyl) pyridine ligands (Div. Mat. Sci., NAIST) OTAN, Yan Bing; YAMADA, Mihoko; YUASA, Junpei; KAWAI, Tsuyoshi

Chair: SHUKU, Yoshiaki (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(1G4-30, 1G4-31, 1G4-33, 1G4-35)

1G4-30[#] Photoluminescence properties of dinuclear Eu(III) complexes with a branched tetraphosphine tetraoxide ligand (TOSHIBA) OIWANAGA, Hiroki; AIGA, Fumihiko

1G4-31[#] Solvato-responsible Luminescent Lanthanide Complex with Bisphenanthroline Moiety (Coll. Sci. Eng., Aoyama Gakuin Univ.) OHMAGARI, Hitomi; YAMAMOTO, Yukina; TANAKA, Nobuya; HASEGAWA, Miki

1G4-33^{*} Systematic investigation of substituent effects on optical properties of nona-coordinated chiral Eu(III) complexes (Fac. Sci., TUS) OKAYASU,

Yoshinori; YUASA, Junpei

1G4-35[#] Synthesis and photophysical properties of lanthanide(III) complexes with a phosphate ligand having organic radicals (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.; Fac. Sci., Hokkaido Univ.) OSHOJI, Sunao; FERREIRA DA ROSA, Pedro Paulo; KITAGAWA, Yuichi; WAKAESHIMA, Makoto; DOI, Yoshihiro; FUSHIMI, Koji; HASEGAWA, Yasuchika

Chair: HORII, Yoji (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(1G4-37, 1G4-38, 1G4-39, 1G4-40, 1G4-41, 1G4-42)

1G4-37[#] Synthesis and photophysical properties of Eu(III) coordination polymer with amide groups (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) OHAYASHI, Joe; SHOJI, Sunao; KITAGAWA, Yuichi; SEKI, Tomohiro; ITO, Hajime; FUSHIMI, Koji; HASEGAWA, Yasuchika

1G4-38[#] Luminescence Properties of Europium(III) Complex with Polydentate Pyrene Ligands (Sch. Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) OSHIMA, Kaori; KITAGAWA, Yuichi; FUSHIMI, Koji; HASEGAWA, Yasuchika

Tb

1G4-39[#] Luminescence properties of Tb(III) complexes introduced tetraethylene-glycol (Grad. Sch. Eng., Hokkaido Univ.) OKONO, Masaya; SHOJI, Sunao; KITAGAWA, Yuichi; FUSHIMI, Koji; HASEGAWA, Yasuchika

1G4-40 Synthesis and physical property of Tb(III)-phthalocyanine double-decker complex having planar chirality (Grad. Sch. Sci., Nagoya Univ.) ONAKAJIMA, Hiroaki; KOBAYASHI, Chisa; YAMADA, Yasuyuki; SYUKU, Yoshiaki; AWAGA, Kunio; TANAKA, Kentaro

1G4-41 Novel Synthesis of Pc(OBu)₈TbCyclen and intramolecular magnetic interactions in photoexcited state (Grad. Sch. Sci., Osaka Univ.) OMATSUMOTO, Ayako; KIZAKI, Kazuro; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto

1G4-42 Interaction between the 4f electronic system and the photo-excited π -conjugated system in the tetraazaporphyrinato lanthanide complexes (Grad. Sch. Sci., Osaka Univ.) OTAIRA, Mako; SANTRIA, Anas; FUYUHIRO, Akira; FUKUDA, Takamitsu; ISHIKAWA, Naoto

Tb, Yb

Chair: KUSAKA, Shinpei (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1G4-44, 1G4-45, 1G4-47, 1G4-48)

1G4-44 Theoretical Study on Intermolecular Magnetic Interaction of Double-Decker Phthalocyaninato Lanthanide(III) Complex (Grad. Sch. Eng. Sci., Osaka Univ.) OIKENAGA, Kazuki; KITAGAWA, Yasutaka; KATO, Keiichi; YAMASHITA, Masahiro; NAKANO, Masayoshi

1G4-45[#] Terbium(III) phthalocyaninato multiple-decker complexes in high oxidation states: electronic, structural and magnetic properties (WPI-AIMR, Tohoku Univ.) OHORII, Yoji; DAMJANOVIC, Marko; KATO, Keiichi; YAMASHITA, Masahiro

1G4-47 Magnetic properties of lanthanoid coordination chains having a triplet ligand bridge (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) OITO, Saki; ISHIDA, Takayuki

1G4-48[#] Cyanido-bridged {Co-Yb-Co} supramolecular network showing SMM, luminescence ratiometric thermometry, and proton-conductivity (Grad. Sch. Sci., The Univ. of Tokyo) OWANG, Junhao; ZAKRZEWSKI, Jakub; HECZKO, Michal; ZYCHOWICZ, Mikolaj; NAKAGAWA, Kosuke; NAKABAYASHI, Koji; CHORAZY, Szymon; SIEKLUCKA, Barbara; OHKOSHI, Shin-ichi

Dy, Zr

Chair: TANAKA, Daisuke (17 : 20~18 : 00)

* 17:10-17:20: interval for laptop PC connection.(1G4-51, 1G4-52, 1G4-54)

1G4-51 Synthesis and magnetic properties of low-coordinated lanthanoid complexes (Grad. Sch. Sci., Tohoku Univ.) OSATO, Tetsu; KATO, Keiichi; BREEDLOVE, Brian; YAMASHITA, Masahiro

1G4-52[#] Adsorptive Removal of Cisplatin Using Nanoporous Metal Complexes in Water (Grad. Sch. Eng., Nagoya Univ.) OHARADA, Yuki; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro

1G4-54 Synthesis and Characteristic of Cage Type Nanoporous Metal Complexes Decorated with Nucleic Acid (Grad. Sch. Eng., Nagoya Univ.) ONAKAJO, Toshinobu; NAKAMOTO, Kosuke; KUSAKA, Shinpei; HORI, Akihiro; ABE, Hiroshi; MATSUDA, Ryotaro

Monday, March 23, AM

Ni

Chair: TAKAISHI, Shinya (9 : 00~10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2G4-01, 2G4-02, 2G4-03, 2G4-04, 2G4-05)

2G4-01 Synthesis and structures of tropylium nickel complexes (Sch. Mater.

- & Chem. Tech., Tokyo Tech.) OKAWAMURA, Akino; YAMAURA, Hiroshige; YAMAMOTO, Koji; MURAHASHI, Tetsuro
2G4-02 Direct Oxidation of Alkanes Catalyzed by Nickel Pyridinophane Complexes (Grad. Sch. Eng., Nagoya Univ.) ONISHIMURA, Tsubasa; ANDO, Yuki; SHINOKUBO, Hiroshi; MIYAKE, Yoshihiro
2G4-03 Nickel-dpaq as an Efficient Catalyst for Alkane Oxidation with *m*-CPBA (Fac. Sci. Eng., Doshisha Univ.) OYASUNO, Riho; UEDA, Junpei; KODERA, Masahito; HITOMI, Yutaka
2G4-04 Reactivity of Nickel-oxyl Complex Having Diphenol Ligand (Grad. Sch. Eng., Osaka Univ.) OSHINKE, Tomoya; ITOH, Mayu; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu
2G4-05* Proton Conductivities and Zinc-battery behaviors of New Catechol-Derived Metal-Organic Frameworks (RCMS, Nagoya Univ.) OZHANG, Zhongyue; CHEN, Qi; AWAGA, Kunio

Chair: INOKUMA, Yasuhide (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2G4-08, 2G4-09, 2G4-10, 2G4-12, 2G4-13)
2G4-08 Theoretical study of relationship between substituents and single-molecular electron conductivity on benzoate-bridged paddlewheel-type dichromium(II,II) complex (Grad. Sch. Eng. Sci., Osaka Univ.) OKITAGAWA, Yasutaka; TADA, Hayato; ERA, Iori; FUJII, Takuya; IKENAGA, Kazuki; NAKANO, Masayoshi
2G4-09 Formation of Nickel(II) Percarboxylate Complexes with Ozone and Carboxylic Acids. (Sch. Eng., Osaka Univ.; Sch. Eng., Osaka Univ.) OHARIKI, Ryotaro; SHIMAOKA, Yuki; MORIMOTO, Yuma; ITOH, Shinobu
2G4-10* Structure and physical properties of a nickel dithiolenone complex with naphthoquinone skeletons (Dep. Chem., Sch. Sci., Kyoto Univ.) OKIMURA, Yojiro; YOSHIDA, Yukihiro; KITAGAWA, Hiroshi
2G4-12 Alkane Hydroxylation Catalyzed by Nickel(II) Complexes of tetradentate ligands containing cyclic diamine moiety (Sch. Eng., Osaka Univ.; Sch. Eng., Osaka Univ.) OWADA, Takuma; NAKANISHI, Aya; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu

Pd

- 2G4-13** Synthesis of Multinuclear Metal Complexes Using a Rigid Macrocyclic Ligand Composed of Bipyridine and Salen Units (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) OYANO, Syuhei; NAKAMURA, Takashi; NABESHIMA, Tatsuya

Chair: SUGIMOTO, Hideki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2G4-15, 2G4-16, 2G4-17, 2G4-18, 2G4-19)
2G4-15 Synthesis of polydisperse aliphatic polyimine compounds and their metal-coordination behavior (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) OSHIRAKURA, Hayato; YONEDA, Tomoki; INOKUMA, Yasuhide
2G4-16 Generation of mononuclear Pd(I) complexes having bidentate phosphine ligands (Tokyo Tech.) OTAKEUCHI, Sayuri; SASAKI, Kota; YAMAMOTO, Koji; MURAHASHI, Tetsuro
2G4-17 Preparation of Hetero-multinuclear Transition Metal Complexes having Silylene Ligand (Lab. Chem. Life Sci., Tokyo Tech.) OKUMA, Kazuki; OTSUCHIDO, Yoshitaka; OSAKADA, Kohtaro
2G4-18* Synthesis and Electrochemistry of an S-Bridged Trinuclear Complex with a Pd^{IV} Center (Grad. Sch. Sci., Osaka Univ.) OKUWAMURA, Naoto; KOUNO, Masahiro; KONNO, Takumi
2G4-19* Electronic State of Quasi-Two-Dimensional Bromide-Bridged Palladium Complex (AMR, Tohoku Univ.) OYOSHIDA, Takefumi; YAMASHITA, Masahiro

Monday, March 23, PM

Chair: IMAOKA, Takane (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2G4-28, 2G4-29, 2G4-31, 2G4-32, 2G4-33)
2G4-28 Selective Formation of Dinuclear Complex and Functionalized Metallonanobels by Using Rigid Bent Ligands Having a Quinoxaline Scaffold (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) OFURUKAWA, Yoshiki; SAKATA, Yoko; AKINE, Shigehisa
2G4-29* One-Step, Shape-Selective Synthesis of Branched Gold Nanoparticles Promoted by Porous Crystals of Self-Assembled Pd₃-Macrocycles (Grad. Sch. Sci., The Univ. of Tokyo; Coll. Sci., Rikkyo Univ.) OYAMASHITA, Yutaro; TASHIRO, Shohei; MATSUSHITA, Nobuyuki; SHIONOYA, Mitsuhiro

Pt

- 2G4-31** Synthesis of helical Pt₃-macrocycles and analysis of the helix inversion (Grad. Sch. Sci., The Univ. of Tokyo; Grad. Sch. Eng., Nagasaki Univ.) ONAKAJIMA, Tomoki; YAMAGUCHI, Yu; TASHIRO, Shohei; UMAKOSHI, Keisuke; SHIONOYA, Mitsuhiro
2G4-32 Circularly Polarized Luminescence of (O^NC^C)₂-Cyclometalated Carbene Pt(II) Complexes Having Twisted Coordination (Grad. Sch. Eng.

- Sci., Osaka Univ.; Grad. Sch. Sci. Eng., Kindai Univ.) OASAKURA, Haruka; IKESHITA, Masahiro; KAWAMORITA, Soichiro; HARA, Nobuyuki; IMAI, Yoshitane; NAOTA, Takeshi
2G4-33 Photoluminescence properties of Pt(II) complexes intercalated into multilayered nanosheets (Sch. Sci., Hokkaido Univ.) OMORIMOTO, Tamami; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako

Chair: KAWAMORITA, Souchirou (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2G4-35, 2G4-36, 2G4-38, 2G4-39)
2G4-35 Crystal Structures and Photoreactivity of Platinum Complexes with Nitrito Ligands (Grad. Sch. Sci., Kobe Univ.) ONAKAMURA, Ibuki; MOCHIDA, Tomoyuki
2G4-36* Control of Crystal Polymorph and Luminescence of a Cyclometalated Pt(II) Complex at Liquid/Liquid Interface (Fac. Sci., Hokkaido Univ.) OYOSHIDA, Masaki; KIMURA, Mari; KOBAYASHI, Atsushi; KATO, Masako
2G4-38* Reactivity and catalytic ability of germylene bridging triangular Pt₃ complex (Lab. Chem. Life Sci., Tokyo Tech.) ODING, Siming; KAMONO, Megumi; TSUCHIDO, Yoshitaka; KOIZUMI, Take-aki; OSAKADA, Kohtaro
2G4-39* Construction of Heterotrimetallic Coordination Polymers Based on a D-Penicillaminato Metalloligand for Electrocatalytic Water Splitting (Grad. Sch. Sci., Osaka Univ.) OSAN ESTEBAN, Anna Carissa; KUWAMURA, Naoto; KOJIMA, Tatsuhiro; YOSHINARI, Nobuto; KONNO, Takumi

Chair: KOBAYASHI, Atsushi (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2G4-42, 2G4-43, 2G4-44, 2G4-46, 2G4-47)
2G4-42 A (N^CN)platinum (II) complex showing specific red emission by adsorption on chloroform vapor (International Coll. Arts Sci., Yokohama City Univ.) ONAKANO, Takumi; KOBAYASHI, Nanako; HATTORI, Shingo; SHINOZAKI, Kazuteru
2G4-43* Structural and Electronic Properties of MX-tube Complexes Dispersed in Organic Media (Dep. Chem., Sch. Sci., Kyoto Univ.) OTSUBO, Kazuya; SUGIMOTO, Kunihisa; KITAGAWA, Hiroshi
2G4-44* Functions of platinum(II) dihalide complexes bearing arsafluorene ligands (KIT) OIMOTO, Hiroaki; NAKA, Kensuke
2G4-46 Photophysical Properties of Heteropolynuclear Complex Having NHC-based Chelate Ligand (Grad. Sch. Eng., Nagasaki Univ.; Grad. Sch. Eng., KUT) OMOON, Sangjoon; HORIUCHI, Shinnosuke; SAKUDA, Eri; ITO, Akitaka; ARIKAWA, Yasuhiro; UMAKOSHI, Keisuke
2G4-47 Synthesis of alloy clusters based on the inclusion of a silver ion into macrocyclic platinum thiolate complexes (Lab. Chem. Life Sci., Tokyo Tech.) OAOKI, Risa; AKANUMA, Yuki; IMAOKA, Takane; YAMAMOTO, Kimihisa

Chair: IMOTO, Hiroaki (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2G4-49, 2G4-50, 2G4-51)
2G4-49 Synthesis of new amphiphilic metal complex lipids toward artificial domain systems in lipid membranes (Fac. Sci., Kyushu Univ.) OTERANIAHI, Hayato; OHTANI, Ryo; OHBA, Masaaki
2G4-50 Vapor-responsive single-crystal-to-single-crystal transformation of a highly luminescent Pt(II) N-heterocyclic carbene complex bearing a flexible substituent (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) OSAITO, Daisuke; YOSHIDA, Masaki; KOBAYASHI, Atsushi; KATO, Masako
2G4-51* Control of Circularly Polarized Luminescence of Achiral Pt(II) Complex by Air-water Interface with Vortex Flow (Grad. Sch. Eng. Sci., Osaka Univ.) OMAEDA, Takatoshi; MORI, Taizo; MULLER, Gilles; ARIGA, Katsuhiko; NAOTA, Takeshi

Tuesday, March 24, PM

Fe

Chair: INOMATA, Tomohiko (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3G4-35, 3G4-36, 3G4-37, 3G4-38, 3G4-39)
3G4-35 Synthesis and properties of iron porphyrin complexes with proton responsive sites (Grad. Sch. Eng., Osaka Univ.) OKOSUGI, Kento; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
3G4-36 2-dimensional coordination polymers synthesized by immersion of solid 1-dimensional coordination polymer in pyridine solution (Sch. Sci. Eng., Tokyo Denki Univ.) OTAKASHI, Kosone; RYOTA, Kosuge; SYUNSUKE, Arai; TAKUYA, Kawata
3G4-37 Synthesis and reactivity of the iron-porphyrin complex having a hydrophobic cavity (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OTANAKA, Shogo; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
3G4-38 Proton Transfer and Spin Transition Behavior of Hydrazone Iron(II) Complex Possessing Deprotonated Ligand (IMCE, Kyushu Univ.) ONAKANISHI, Takumi; SATO, Osamu
3G4-39* Crystal structure of four-coordinate Fe(II) coordination polymer FePd(CN)₄ unveiled by direct observation using STEM methods (Fac. Sci., Kyushu Univ.) OHTANI, Ryo; KIMOTO, Koji; HAYAMI, Shinya;

OHBA, Masaaki

Chair: SAGA, Yutaka (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(3G4-42, 3G4-43, 3G4-44, 3G4-45, 3G4-46, 3G4-47)
- 3G4-42** Solvent-dependent fac/mer-isomerization of tripodal tris(bipyridine) complexes (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○MOROZUMI, Takuma; MATSUOKA, Ryota; NABESHIMA, Tatsuya
- 3G4-43[#]** Selective d/π -electron Oxidation Behaviors of a Ferrocene Derivative Dimerized by Hydrogen Bonds (Nagasaki Univ.) ○HAYASHI, Mikihiro
- 3G4-44** Characterization of diiron complexes with a tridentate ligand bearing secondary amino groups and its oxidation reaction (Fac. Eng. Nagoya Inst. of Tech.) ○IGARASHI, Itsuki; KAJITA, Yuji; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki
- 3G4-45** Substrate oxidation in water catalyzed by iron(II)-NHC complexes having a hydrophobic cavity (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○FUJISAKI, Hiroto; SHIMOYAMA, Yoshihiro; ISHIZUKA, Tomoya; KOTANI, Hiroaki; KOJIMA, Takahiko
- 3G4-46** Alkane Oxidation Reactions Catalyzed by Iron Complexes with Rigid Structures (Fac. Sci. Eng., Doshisha Univ.) ○NAKAHARA, Hiroki; ADACHI, Hiroki; KODERA, Masahito; HITOMI, Yutaka
- 3G4-47** Development of Metal Complex Catalysts Having an Iptycene Unit (Fac. Sci. Eng., Doshisha Univ.) ○FUKUZAWA, Tessei; ADACHI, Hiroki; KODERA, Masahito; HITOMI, Yutaka

Chair: MATSUOKA, Ryota (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3G4-49, 3G4-50, 3G4-51, 3G4-52)
- 3G4-49** Reactivity of 2-Aminophenolatoiron Complex Having Carboxylamido Nitrogen Donor (Fac. Sci. Eng., Doshisha Univ.) ○NAGAO, Houjiro; WAMURA, Satoshi; KODERA, Masahito; HITOMI, Yutaka
- 3G4-50** Oxidation of organic compounds by pentanuclear iron complexes (Grad. Sch. Eng., Osaka Univ.; Sch. Eng., Osaka Univ.) ○TATEWAKI, Hayato; OKAMURA, Masaya; MATSUOKA, Ryota; SAGA, Yutaka; KONDO, Mio; AIDA, Fuyuki; MASAOKA, Shigeyuki
- 3G4-51** Electrochemical Hydrogen Evolution Catalyzed by a Water-soluble Iron Complex ligated by Dicyanopyrazinedithiolate ligands (Fac. Sci., Kyushu Univ.; ¹³CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○YAMADA, Minoru; YAMAUCHI, Kosei; SAKAI, Ken
- 3G4-52[#]** Mechanistic Insights into Photocatalytic CO₂ Reduction Promoted by Diazapyridinophane Metal Complexes (Fac. Sci., Kyushu Univ.; ¹³CNER, Kyushu Univ.; CMS, Kyushu Univ.) ○SAKAGUCHI, Yuto; CALL, Arnau; YAMAUCHI, Kosei; SAKAI, Ken

Wednesday, March 25, AM

Chair: NAKADA, Akinobu (9 : 00 ~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4G4-01, 4G4-02, 4G4-03, 4G4-04, 4G4-05)
- 4G4-01** Hydroxylation Reaction of Inert Alkanes with Oxido-iron(IV) Porphyrin π -Cation Radical Complexes in Fluorocarbon Solvent (Grad. Sch. Eng., Osaka Univ.) ○FUKUI, Kosuke; MORIMOTO, Yuma; FUJII, Hiroshi; ITOH, Shinobu
- 4G4-02** the study of catalytic activity of diiron complex with asymmetrical pentapyridine ligand (Grad. Sch. Sci., Osaka City Univ.) ○YAMASAKI, Mikako; KOZAKI, Masatoshi; TACHI, Yoshimitsu
- 4G4-03** Efficient electrochemical water oxidation by iron complexes with in-plane N₄ ligands on porous metal electrodes. (Grad. Sch. Sci. and Technol., Niigata Univ.) ○HAYASAKA, Taichi; SATO, Taisei; TSUBONOUCHI, Yuta; MOHAMED, Eman; ZHRAN, Zaki; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 4G4-04** Photochemical CO₂ Reduction Catalyzed by a Binuclear Iron Complex with Doubly N-confused Hexaphyrin (Grad. Sch. Sci., Rikkyo Univ.) ○ITO, Takashi; NAKAZONO, Takashi; WADA, Tohru
- 4G4-05[#]** Remarkable Enhancement of Catalytic Activity of μ -Nitrido-Bridged Iron Phthalocyanine Dimer on Oxidation of Light Alkanes by Adsorption on Graphite (Grad. Sch. Sci., Nagoya Univ.) ○YAMADA, Yasuyuki; SUGIURA, Takuya; MORITA, Kentaro; NAGASAKA, Masanari; TANAKA, Kiyohisa; TANAKA, Kentaro

Chair: OHTANI, Ryo (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4G4-08, 4G4-10, 4G4-11, 4G4-12)
- 4G4-08[#]** Heterobimetallic (Fe/Os) supramolecular polymer for electrochromic application (Pol. Mater. Unit, NIMS) ○BERA, Manas Kumar; HIGUCHI, Masayoshi
- 4G4-10[#]** Ligand Based Pt(II)/Fe(II) Bimetallo-Supramolecular Polymers: An Electrochromic Study (Pol. Mater. Unit, NIMS) ○SANTRA, Dines Chandra; HIGUCHI, Masayoshi
- 4G4-11** Synthesis of o-phenylenediamine/benzoquinodimine Fe(II) complexes bearing tetradentate tetraamine ligand (Grad. Sch. Sci. Eng., Chuo Univ.) ○TAKAHASHI, Yoshiki; NAKADA, Akinobu; CHANG, Ho-chol
- 4G4-12[#]** Multi-responsive charge state switching in tetraoxolene-bridged Fe two-dimensional honeycomb layered frameworks (IMR, Tohoku Univ.)

○SEKINE, Yoshihiro; CHEN, Jian; KOSAKA, Wataru; MIYASAKA, Hitoshi

Chair: KOSAKA, Wataru (11 : 20~12 : 00)

- * 11:10-11:20: interval for laptop PC connection.(4G4-15, 4G4-16, 4G4-17)
- 4G4-15** Interhalogen Compound Adsorption and Magnetic Behavior of Hofmann-type Porous Coordination Polymers (Grad. Sch. Sci., Kyushu Univ.) ○KETAYAMA, Masaaki; TSUJI, Miho; YOSHINO, Haruka; OHTANI, Ryo; OHBA, Masaaki
- 4G4-16** Magnetic Properties of 2-D Hofmann-type Coordination Polymers Modified Interlayer Structure (Grad. Sch. Sci., Kyushu Univ.) ○TOYAMA, Konatsu; YOSHINO, Haruka; OHTSUBO, Yuta; KAWAMURA, Takuya; OHTANI, Ryo; OHBA, Masaaki
- 4G4-17[#]** CO₂-driven Switching of Magnetic Phase in a Flexible Double-layer Type Porous Magnet (Grad. Sch. Sci., Kyushu Univ.; WPI-iCeMS, Kyoto Univ.) ○YOSHINO, Haruka; TOMOKAGE, Narumi; OTAKE, Ken-ichi; KITAGAWA, Susumu; OHBA, Masaaki

Room G5

Lecture Hall Bldg. K508

Applications of Materials

Sunday, March 22, PM

Chair: FURUTANI, Masahiro (13 : 00~14 : 00)

- * 12:50-13:00: interval for laptop PC connection.(1G5-25, 1G5-26, 1G5-27, 1G5-28, 1G5-29, 1G5-30)
- 1G5-25** Synthesis of compounds aiming at specific growth inhibitory activity against acute T lymphoblastic leukemia cells (Sci. Eng., The Univ. of Electro-Communications) ○FUJITA, Yuki; YOSHIDA, Chihiro; HIGASHI, Tomoya; HACHIRO, Yoshihumi; NAKATA, Chihiro; YAGI, Takuya; TAKETI, Adusa; KITADA, Nobuo; HARA, Takahiko; MAKI, Shoujiro
- 1G5-26** Structure-activity relationship of compounds that specifically inhibit proliferation of acute T lymphoblastic leukemia cells (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○YOSHIDA, Chihiro; HACHIRO, Yoshihumi; HIGASHI, Tomoya; NAKATA, Chihiro; YAGI, Takuya; TAKECHI, Azusa; KITADA, Nobuo; HARA, Takahiko; MAKI, Shojiro
- 1G5-27** Creation of chemical compounds with higher growth inhibitory activity for T-cell acute lymphoblastic leukemia-derived cells (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○HIGASHI, Tomoya; YOSHIDA, Chihiro; HACHIRO, Yoshifumi; NAKATA, Chihiro; YAGI, Takuya; TAKECHI, Adusa; KITADA, Nobuo; HARA, Takahiko; MAKI, Shoujiro
- 1G5-28** Mass production of porous nanosheets and their application to a live imaging tool for suspension cells (Sch. Eng., Tokai Univ.) ○SUZUKI, Tomomasa; ZHANG, Hong; YARINOME, Kenji; AOKI, Takuto; OKAMURA, Yosuke
- 1G5-29** Stability improvement of β -carotene by adsorption on hydrophobic silica with controlled alkyl group density (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○OZAKI, Maki; SHIBATA, Masashi; KOHNO, Yoshiumi; WATANABE, Ryo; FUKUHARA, Choji
- 1G5-30** Effect of complexation with organo-modified clays on the stability and luminescent properties of hydrophobic fluorescent dye (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○SEI, Yuichi; SHIBATA, Masashi; KOHNO, Yoshiumi; WATANABE, Ryo; FUKUHARA, Choji

Chair: KOSEKI, Yoshitaka (14 : 10~15 : 10)

- * 14:00-14:10: interval for laptop PC connection.(1G5-32, 1G5-33, 1G5-34, 1G5-35, 1G5-36, 1G5-37)
- 1G5-32[#]** Semitransparent dye-sensitized solar cells using novel blue-colored unsymmetrical squaraine dyes (Grad. Sch. Life Sci. Sys. Eng., KIT) ○ROY, Pritha; VATS, Ajendra Kumar; PANDEY, Shyam Sudhir
- 1G5-33** Synthesis of new styryl dyes with two indolenine moieties and their fluorescence properties (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○MATSUEDA, Hisaki; KUBOTA, Yasuhiro; INUZUKA, Toshiyasu; AGOU, Tomohiro; FUNABIKI, Kazumasa
- 1G5-34** Synthesis of monomers having a 2-mercaptopyridyl group and their application to photo-adhesive materials (Fac. Sci. Technol., TUS) ○FURUTANI, Masahiro; FUJIIHARA, Daiki; ARIMITSU, Koji
- 1G5-35** Synthesis of a BODIPY-derived photosensitizer with benzothiadiazole for aiming at photocatalytic hydrogen production. (Fac. Urban Envr. Sci., TMU; ReHES, TMU) ○I, Takuro; KUBO, Yuji
- 1G5-36** Synthesis of boronic acid-containing cyanostilbenes to develop chiral sensors (Fac. Urban Envr. Sci., TMU) ○MORO, Ayana; KUBO, Yuji
- 1G5-37** Photoacoustic signal intensity of self-assembly of phthalocyanines with water-soluble axial ligands (Grad. Sch. Eng., Kyoto Univ.) ○NOGITA, Kohei; IMAIZUMI, Naoto; MIKI, Koji; OHE, Kouichi

Chair: FUNABIKI, Kazumasa (15 : 20~16 : 10)

- * 15:10-15:20: interval for laptop PC connection.(1G5-39, 1G5-40, 1G5-41,

1G5-42)

- 1G5-39** Synthesis and properties of enzyme-responsive Cy5 dye (Grad. Sch. Eng., Kyoto Univ.) OE, Masahiro; OMASUDA, Akito; MIKI, Koji; OHE, Kouichi
- 1G5-40** Crystal structure of three polymorphs of chlorinated-diketopyrrolopyrrole dye substituted with propyl group on amino position. (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) O KIKUCHI, Yusuke; SO, Heesoo; OSUMI, Shigetoshi; KAWAGUCHI, Junna; MATSUMOTO, Shinya
- 1G5-41** Preparation of crystalline thin films of 2,5-diamino-3,6-dicyanopyrazine dye having 2-bromobenzyl groups (Grad. Sch. Fac. Env. and Info. Sci., Yokohama Natl. Univ.) OTOMO, Haruki; KISHI, Yuko; AKUNE, Yoko; MATSUMOTO, Shinya
- 1G5-42*** Decomposition of amyloid fibrils by NIR active upconversion nanoparticles (Fac. Eng., Oita Univ.) OHARADA, Takunori; TAKEI, Tomoaki; NINOMIYA, Taisuke; NISHIGUCHI, Hiroyasu; HIFUMI, Emi; HIRAO, Shotaro; OHGA, Yasushi; TAKAHASHI, Toru; SHINTO, Hiroyuki

Monday, March 23, AM

Chair: KASAI, Hitoshi (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(2G5-1)
- 2G5-01#** CSJ Award for Creative Works Study of Materials for Next Generation Batteries (Fac. Sci., TUS; ESICB, Kyoto Univ.) OKOMABA, Shinichi

Chair: YAGI, Shigeyuki (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(2G5-08, 2G5-09, 2G5-10, 2G5-11, 2G5-12, 2G5-13)
- 2G5-08** Theoretical Examination on Operating Voltage of the Post Lithium-Ion Secondary Batteries using Organic Active Materials (Fac. Eng., OECU) OAONUMA, Shuji; FUJITA, Kazuhiko
- 2G5-09** Investigation of Preparation Condition of Boron-Doped Nanodiamond Toward Application to Aqueous Supercapacitors (Grad. Sch. Fac. Sci. Technol., TUS) OSUGAI, Seiya; KONDO, Takeshi; NISHIKAWA, Masahiro; TEI, Takahiro; TOJO, Toshifumi; YUASA, Makoto
- 2G5-10** Surface functionalized boron-doped diamond powder toward application to electrochemical capacitors (Fac. Sci. Technol., TUS) ONAKAMURA, Keisuke; KONDO, Takeshi; TOJO, Toshifumi; YUASA, Makoto
- 2G5-11** Fabrication of all-solid-state flexible supercapacitors with boron-doped nanodiamond (Fac. Sci. Technol., TUS) OTANAKA, Hirohisa; KONDO, Takeshi; TOJO, Toshifumi; YUASA, Makoto
- 2G5-12** 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; OZAWA, Tomohiro; MASUDA, Hideki
- 2G5-13** Electrochemical Detection of Drugs in Blood at Conductive Diamond-Like Carbon Electrode (Fac. Sci. Technol., TUS) OISHI, Yuta; KONDO, Takeshi; TOJO, Toshifumi; YUASA, Makoto

Chair: MATSUBARA, Masaki (11:20~11:50)

- * 11:10-11:20: interval for laptop PC connection.(2G5-15)
- 2G5-15** CSJ Award for Merits for Chemical Education Contribution to high school chemistry club activities for regional issues and science education (Shimane Pref. Hamada High Sch.) OFUKUMITSU, Susumu

Monday, March 23, PM

Chair: MATSUBARA, Masaki (13:00~14:00)

- * 12:50-13:00: interval for laptop PC connection.(2G5-25, 2G5-26, 2G5-27, 2G5-28, 2G5-29, 2G5-30)
- 2G5-25** Fluorescence Properties of Pyridinium-Cyclic Enolate Betaine Dyes (1): Emission Mechanism (Grad. Sch. Eng., Osaka Pref. Univ.) OHAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 2G5-26** Fluorescence Properties of Pyridinium-Cyclic Enolate Betaine Dyes (2): Emission Color Tuning (Grad. Sch. Eng., Osaka Pref. Univ.) OSAIKUSA, Mao; HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 2G5-27** Synthesis and Fluorescence Properties of 4-(4-(*N,N*-Diphenylamino)styryl)pyridinium-Based Betaine Dyes Having a Cyclic Enolate Unit (Grad. Sch. Eng., Osaka Pref. Univ.) OSHIMIZU, Kei; HAYASHI, Yuichiro; MAEDA, Takeshi; YAGI, Shigeyuki
- 2G5-28** Synthesis and Optical Property of Mesogens Consisting of Unsymmetrical Squaraine Chromophores as Rigid Components (Grad. Sch. Eng., Osaka Pref. Univ.; Sch. Sci. Eng., CIST) OTAKANO, Masashi; MAEDA, Takeshi; SHIMA, Yushiro; YAGI, Shigeyuki; OKOSHI, Kento
- 2G5-29** Synthesis of Symmetrical Squaraine Dyes with Indandione Acceptor Moiety and Their Electronic Absorption and Electrochemical Properties (Grad. Sch. Eng., Osaka Pref. Univ.) OTANAKA, Daiki; MAEDA, Takeshi; YAGI, Shigeyuki
- 2G5-30** Evaluation of Open-Shell Character in Near-Infrared Absorbing Dyes Consisting of Oxocarbon Residues as Central Components (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) OOKA, Taishi; MAEDA, Takeshi; SAKAMAKI, Daisuke; YAGI, Shigeyuki; FUJIWARA, Hideki

Chair: TOJO, Toshifumi (14:10~15:10)

- * 14:00-14:10: interval for laptop PC connection.(2G5-32, 2G5-33, 2G5-34, 2G5-35, 2G5-37)
- 2G5-32** Application of Dithienosilole-Based Fluorescent Dyes to Cellular Imaging (Grad. Sch. Eng., Osaka Pref. Univ.) OMORIMOTO, Ami; HAYASHI, Yuichiro; MAEDA, Takeshi; HARADA, Atsushi; YAGI, Shigeyuki
- 2G5-33** Synthesis and Photoluminescence Properties of Dinuclear Organoplatinum(II) Complexes towards Formation of the *syn*-Type Intramolecular Excimer (Grad. Sch. Eng., Osaka Pref. Univ.; Dept. of Tech. Syst., Osaka Pref. Univ. Coll. Tech.) OHOTEI, Junichi; KAKEMIZU, Kairi; MAEDA, Takeshi; TSUJIMOTO, Hidetaka; YAGI, Shigeyuki
- 2G5-34** Thieno[1,3,2]oxazaborinine-containing aza-BODIPYs with near infrared absorption bands: synthesis and the photoelectric conversion property (Grad. Sch. Urban Envr. Sci., TMU; R&D planning division, NIPPON KAYAKU Co., Ltd.) OSHIMADA, Takuma; KUBO, Yuji; MAEDA, Kentaro; HASHIMOTO, Yuta
- 2G5-35*** Synthesis and properties of poly(3,4-ethylenedioxythiophene) containing octahedral oligomeric silsesquioxane as a pendant group (Grad. Sch. Eng., Hiroshima Univ.) OIMAE, Ichiro; WAKITA, Tsuyoshi; IMATO, Keichi; OYAMA, Yousuke
- 2G5-37** Preparation of organic-inorganic bilayer nanofilms by penetration of polymer solution between metal oxide gel and liquid subphase (Grad. Sch. Eng., KIT) OSHIMOOKA, Hirokazu; KUWABARA, Makoto; KITAMURA, Mitsuru

Chair: ONOE, Jun (15:20~16:20)

- * 15:10-15:20: interval for laptop PC connection.(2G5-39, 2G5-41, 2G5-43)
- 2G5-39*** Direct preparation of Kampo gels (Inst. Sci. Eng., Kanazawa Univ.) OKURODA, Kosuke; KODO, Chiaki; MIYAZAKI, Keisuke; UEDA, Hisai; TAKAHASHI, Kenji
- 2G5-41*** Solid materials that release a physiologically active gas, NO, in response to air (MANA, NIMS) OISHIHARA, Shinsuke; IYI, Nobuo
- 2G5-43*** Application of Wheeler-Jonas Equation and Relative Breakthrough Time to Organic Vapor Breakthrough in Activated Carbon Small Beds (JOHAS) OBIKO, Hironobu; FURUSE, Mitsuya; TAKANO, Tsuguo

Chair: KUBO, Yuji (16:30~17:30)

- * 16:20-16:30: interval for laptop PC connection.(2G5-46, 2G5-48, 2G5-49, 2G5-50, 2G5-51)
- 2G5-46*** Analysis of physical factors to determine the metal sorption properties of ferrocyanide nanoparticles for metal ions in high-level radioactive liquid wastes (Grad. Sch. Eng., Nagoya Univ.) WATANABE, Shinta; INABA, Yusuke; MISHIMA, Riai; HARIGAI, Miki; TAKESHITA, Kenji; ONOE, Jun
- 2G5-48** Release control of insecticides by incorporation into mesoporous silica (Fac. Eng., Shizuoka Univ.) OKOHNO, Yoshiumi; NATORI, Takaaki; WATANABE, Ryo; FUKUHARA, Choji
- 2G5-49** Suppressed elution of herbicide by intercalation into organo-modified hydrotalcite (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) OSUZUKI, Jumpei; KOHNO, Yoshiumi; WATANABE, Ryo; FUKUHARA, Choji
- 2G5-50** Control of incoherent scattering of structural colors by reversible coloration and bleaching of thermochromic leuco dye (Fac. Eng., Chiba Univ.) OKOBAYASHI, Ryohei; NAKAMURA, Kazuki
- 2G5-51** Structural color with low angular dependence in spherical crystals composed of large colloidal particles (Fac. Sci. Technol., TUS) OHNUKI, Ryohei; SAKAI, Miki; TAKEOKA, Yukikazu; YOSHIOKA, Shinya

Tuesday, March 24, AM

Chair: KOSEKI, Yoshitaka (9:00~10:00)

- * 8:50-9:00: interval for laptop PC connection.(3G5-01, 3G5-02, 3G5-03, 3G5-05)
- 3G5-01** Preparation, Surface Wettability and Application of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer Zirconium Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) OARAKAWA, Koki; SAWADA, Hideo
- 3G5-02** Selective Removal of Low Molecular Weight Fluorinated Aromatic Compounds from Water by Fluoroalkyl End-capped Oligomer/Micro Sized-Silica Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.) OHONMA, Genta; SAWADA, Hideo
- 3G5-03*** Preparation of fluoroalkyl end-capped vinyltrimethoxysilane oligomer/methyltrimethoxysilane/magnetite composites: Application to removal of aromatic compounds from water (Grad. Sch. Sci. Tech., Hirosaki Univ.) OYAMASHITA, Katsumi; SAWADA, Hideo
- 3G5-05*** Amorphous low molecular aromatic compounds possessing no weight loss behavior in fluorinated oligomeric silica/hexagonal boron nitride nanocomposites core even after calcination at 800 °C (Grad. Sch. Sci. Tech., Hirosaki Univ.) OSAENKAEW, Jitraporn; YAMASHITA, Katsumi; NISHIDA, Masakazu; SAWADA, Hideo

Chair: TSUKADA, Satoru (10:10~11:10)

- * 10:00-10:10: interval for laptop PC connection.(3G5-08, 3G5-10, 3G5-12)
- 3G5-08*** Structural Analysis of Water Transport Network in Polymer Electrolyte Membrane Revealed through Cryo-STEM Observation (Sci.

Tec., Sophia Univ.) ○HIRAHARA, Miru; SUGIMORI, Hidekazu; RIKUKAWA, Masahiro

- 3G5-10[#]** Rational design of single-atom electrocatalysts for efficient oxygen reduction reaction: A first-principles study (RCSEC, Osaka Univ.)
○IWASE, Kazuyuki; NAKANISHI, Shuji; KAMIYA, Kazuhide
- 3G5-12^{*}** Interconnector coating of solid oxide electrolysis cell for durability improvement (Toshiba Energy Systems & Solutions Corp.)
○KOBAYASHI, Shohei; INUZUKA, Riko; OSADA, Norikazu; KAMEDA, Tsuneji; EGUCHI, Katsuya

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

- * 11:10-11:20: interval for laptop PC connection.(3G5-15, 3G5-16, 3G5-17, 3G5-18, 3G5-20)
- 3G5-15** Construction of Ag Deposition-based Electrochromic Device Utilizing NiO as Counter Reaction Material (Fac. Eng., Chiba Univ.)
○WAKATSUKI, Hikaru; SUGITA, Takanori; KIMURA, Syunsuke; NAKAMURA, Kazuki; KOBAYASHI, Norihisa
- 3G5-16** Redox behavior and Electrochemiluminescence of Ruthenium(II) complex on Au nanoparticle-modified electrode. (Fac. Eng., Chiba Univ.)
○FURUKAWA, Keita; KOBAYASHI, Norihisa
- 3G5-17** Synthesis and properties of deep blue fluorescent 4,5-dibiphenyl-substituted imidazoles and the application to organic EL devices (Grad. Sch. Eng., Sojo Univ.)
○SHIMADA, Yusuke; MATSUMOTO, Senri; MIZUKI, Keiji; HATTA, Taizo
- 3G5-18[#]** Metallo-Supramolecular Polymers-based Electrochromic Devices: Low Voltage Operation and Ultrahigh Durability (NIMS)
○MONDAL, Sanjoy; HIGUCHI, Masayoshi
- 3G5-20** Photophysical properties of luminescent structural color material composed of nanoparticle and fluorescent dye (Fac. Eng., Chiba Univ.)
○YOSHIDA, Ayumi; NAKAMURA, Kazuki

Room H1

Lecture Hall Bldg. K602

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Sunday, March 22, AM

Pd

Chair: SEMBA, Kazuhiko (9 : 00 ~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(1H1-01, 1H1-02, 1H1-03, 1H1-04, 1H1-05, 1H1-06, 1H1-07)
- 1H1-01** Palladium-catalyzed oxidative amination of 1,3-dienes (Fac. Chem. Materials and Bioeng., Kansai Univ.)
○TABARU, Kazuki; TORII, Kazuyuki; OBORA, Yasushi
- 1H1-02** α -Alkylation of Nitriles with Alcohols Catalyzed by Ti-Pd alloys (Fac. Chem. Materials and Bioeng., Kansai Univ.)
○SAFUMI, Masatoshi; KONDO, Ryota; OBORA, Yasushi
- 1H1-03** Palladium-Catalyzed Carbothiolation via Trapping of the σ -alkyl palladium Intermediate with RSTIPS (Grad. Sch. Advanced Sci. Eng., Waseda Univ.)
○HOSOYA, Yosuke; KOBAYASHI, Ikumi; MIZOGUCHI, Kota; NAKADA, Masahisa
- 1H1-04** Tuning of the Electronic Properties of Buchwald Phosphine Ligand-Like Imidazo[1,5-c]pyridine Carbene Ligands and Application to Catalysis (Fac. Eng., Gifu Univ.)
○SHIBTA, Yoshifuru; IKEYAMA, Yoshiki; KAWASE, Tomoyuki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 1H1-05[#]** Palladium-Catalyzed Cyclopropanation of Alkenes Using Acylsilanes (Grad. Sch. Eng., Osaka Univ.)
○SAKURAI, Shun; TOBISU, Mamoru
- 1H1-06** Palladium-Catalyzed Diarylation of Two B-H Bonds in Diethylaminoborane. (Grad. Sch. Eng., Osaka Univ.)
○SHIMAZUMI, Ryoma; IGARASHI, Takuya; TOBISU, Mamoru
- 1H1-07[#]** Palladium-Catalyzed Transfer Hydration of Dinitriles to Diamides (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.)
NARAOKA, Asuka; NOYORI, Ryoji; ○NAKA, Hiroshi

Sunday, March 22, PM

Chair: YORIMITSU, Hideki (12 : 40~13 : 40)

- * 12:30-12:40: interval for laptop PC connection.(1H1-23, 1H1-26)
- 1H1-23[#]** CSJ Award for Young Chemists Catalyst-enabling aromatic functionalization toward synthesis of unexplored functional molecules (WPI-ITbM, Nagoya Univ.)
○MURAKAMI, Kei
- 1H1-26** Young Scholar Lectures of CSJ Cross-Coupling Reactions Based on Catalytically Generated Organometallic Species (Grad. Sch. Eng., Kyoto Univ.)
○SEMBA, Kazuhiko

Chair: NAKA, Hiroshi (13 : 50~15 : 00)

- * 13:40-13:50: interval for laptop PC connection.(1H1-30, 1H1-31, 1H1-32, 1H1-34, 1H1-35, 1H1-36)

- 1H1-30** Allylation Reaction of Aldehydes with 4-Substituted 4,4-Diborylbutenes Catalyzed by Palladium (Grad. Sch. Eng., Kyoto Univ.)
MIURA, Tomoya; MURAKAMI, Masahiro; ○SHIRATORI, Yota
- 1H1-31** Asymmetric Suzuki-Miyaura Coupling of 1-bromo-2-naphthoates in Water with Water-Soluble Helically Chiral Polymer Ligands (Grad. Sch. Eng., Kyoto Univ.)
○KAMIYA, Naoaki; NAGATA, Yuuya; SUGINOME, Michinori
- 1H1-32^{*}** Structural Analysis of the Polymer-Supported Palladium Catalysts (RIKEN CSRS)
○SATO, Takuma; OHNO, Aya; UOZUMI, Yasuhiro; YAMADA, Yoichi
- 1H1-34** Catalytic Asymmetric Reactions Using Imidazolidine-containing NCN-Pincer Palladium and Nickel Complexes (Grad. Sch. Sci., Chiba Univ.)
○ARASEKI, Kensuke; KAKINO, Junki; ARAI, Takayoshi
- 1H1-35** In-situ crystallization-induced selective monoarylation of dihaloarenes using mechanochemistry (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICREDD, Hokkaido Univ.)
○SEO, Tamae; KUBOTA, Koji; ITO, Hajime
- 1H1-36** Pd-Catalyzed Asymmetric Synthesis of 2,2'-Diamino-1,1'-Biaryls from Azobenzene (Grad. Sch. Eng., Kyoto Univ.)
○ASO, Koki; AKAHORI, Tomohiro; OHGI, Akito; FORMICA, Michele; SEMBA, Kazuhiko; NAKAO, Yoshiaki

Ni

Chair: TAKAHASHI, Kohei (15 : 10~16 : 20)

- * 15:00-15:10: interval for laptop PC connection.(1H1-38, 1H1-39, 1H1-40, 1H1-41, 1H1-42, 1H1-43, 1H1-44)
- 1H1-38** Light/Nickel-Promoted Dehydrogenative Coupling of Benzylic and Aldehydic C-H Bonds (Grad. Sch. Eng., Kyoto Univ.)
○KAWASAKI, Tairin; ISHIDA, Naoki; MURAKAMI, Masahiro
- 1H1-39** The nickel-catalyzed decarbonylation of acylsilanes (Grad. Sch. Eng., Osaka Univ.)
○NAKATANI, Syun; ITO, Yuri; TOBISU, Mamoru
- 1H1-40** The aryl-halide-dependent chemospecific Buchwald-Hartwig and Suzuki-Miyaura type couplings using nickel iodide catalyst (RIKEN CSRS)
○YAMADA, Yoichi M. A.; DHITAL, Raghu N.; SEN, Abhijit; HU, Hao; SATO, Takuma; UOZUMI, Yasuhiro
- 1H1-41[#]** Switchable selectivity between Suzuki-Miyaura coupling and Buchwald-Hartwig coupling promoted by an immobilized nickel catalyst (RIKEN CSRS)
○SEN, Abhijit; DHITAL, Raghu N.; OHNO, Aya; SATO, Takuma; YAMADA, Yoichi M. A.
- 1H1-42** Nickel-Catalyzed Selective Alkylation of Ketones via Oligomerization of Ethylene (Sch. Eng., Osaka Univ.)
○TSURUTA, Takuya; SHIRATAKI, Hiroshi; IWAMOTO, Hiroaki; OGOSHI, Sensuke
- 1H1-43** Nickel-Catalyzed Regioselective Difluoroallylation of Indoles via C-F Bond Activation of (Trifluoromethyl)alkenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba)
○HIGUMA, Tatsuya; WATABE, Yota; IDE, Keisuke; FUJITA, Takeshi; ICHIKAWA, Junji
- 1H1-44** Nickel-Catalyzed [4 + 2] Cycloaddition of Styrenes with Arynes: Synthesis of Dihydrophenanthrenes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba)
○KUBO, Teruhiko; FUJITA, Takeshi; ICHIKAWA, Junji

Pd

Chair: KINOSHITA, Hidenori (16 : 30~17 : 40)

- * 16:20-16:30: interval for laptop PC connection.(1H1-46, 1H1-48, 1H1-49, 1H1-50, 1H1-51)
- 1H1-46[#]** Pd-Catalyzed Allylic Isocyanation with Cyanide as *N*-Nucleophile (Grad. Sch. Eng., Hokkaido Univ.)
○YURINO, Taiga; TANI, Ryutarou; OHKUMA, Takeshi
- 1H1-48** Pd-catalyzed Synthesis and Transformation of Functionalized Vinyl Isonitriles (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.)
○HACHIYA, Asuka; YURINO, Taiga; OHKUMA, Takeshi
- 1H1-49** Pd-catalyzed Isocyanation of Propargylic Alcohol Derivatives (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.)
○SUZUKI, Keisuke; YURINO, Taiga; OHKUMA, Takeshi
- 1H1-50** Palladium-Catalyzed Remote Diborylative Cyclization Reactions of Dienes via Chain Walking (Fac. Sci. Tech., Keio Univ.)
○KANNNO, Shota; KAKIUCHI, Fumitoshi; KOCHI, Takuya
- 1H1-51[#]** Pd-Catalyzed Decarbonylative Alkylation of Acyl Fluorides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.)
○FU, Liyan; CHEN, Qiang; NISHIHARA, Yasushi

Chair: OGIWARA, Yohei (17 : 50~18 : 50)

- * 17:40-17:50: interval for laptop PC connection.(1H1-54, 1H1-56, 1H1-57, 1H1-58, 1H1-59)
- 1H1-54[#]** Development of a Novel Synthetic Method for SGLT2 Inhibitors through Fukuyama Coupling Reaction (Grad. Sch. Eng. Sci., Osaka Univ.)
○KATO, Daiki; TALODE, Jalindar Bhausaheb; TSURUGI, Hayato; SEKI, Masahiko; MASHIMA, Kazushi
- 1H1-56[#]** Cu-Catalyzed Fukuyama Cross-Coupling of Multi-functionalized Thioesters with Organozinc Reagents (Grad. Sch. Eng. Sci., Osaka Univ.; Tokuyama Corp.)
○TALODE, Jalindar Bhausaheb; KATO, Daiki; TSURUGI, Hayato; SEKI, Masahiko; MASHIMA, Kazushi
- 1H1-57[#]** Palladium catalyzed cross-coupling reactions in mesoionic liquids

(Grad. Sch. Eng., Nagoya Inst. of Tech.) OKURABAYASHI, Hideaki; HIRASHITA, Tsunehisa

- 1H1-58** Synthesis of Fluorenol via Intramolecular C-H Functionalization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) OKURIMOTO, Yuji; MITSUDO, Koichi; SUGA, Seiji
- 1H1-59** Synthesis and Reactivity of Late Transition Metal Complexes Having a Ru-Metalloligand (Sch. Sci., Tokyo Tech.) ONAKAMURA, Yuta; SAITOU, Narumasa; TAKAYA, Jun; IWASA, Nobuharu

Monday, March 23, AM

Rh

Chair: MASUDA, Yusuke (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[#]** Rhodium-Catalyzed C(sp²)-H Alkoxycarbonylation of Indoles without External Additives (Fac. Sci., TUS) OLIAO, Yumeng; SUZUKI, Hirotosugu; MATSUDA, Takanori
- 2H1-02** Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to Acenaphthylene Derivatives (Grad. Sch. Sci., Osaka City Univ.) ONOGUCHI, Hikaru; UMEDA, Moeko; NISHIMURA, Takahiro
- 2H1-03** Rhodium-Catalyzed Asymmetric Addition of Arylboronic Acids to Indene Derivatives (Grad. Sch. Sci., Osaka City Univ.) OUMEDA, Moeko; NISHIMURA, Takahiro
- 2H1-04** Rh-Catalyzed Reaction of α -Carbonyl Sulfoxonium Ylides and Alkenes: Synthesis of Indanones via [4+1] Cycloaddition (Grad. Sch. Eng., Osaka Univ.) ANDO, Shunsuke; KOMMAGALLA, Yadagiri; CHATANI, Naoto
- 2H1-05[#]** Rhodium(III)-Catalyzed Direct C-H Amidation of Aniline Derivatives Using a Pyrimidyl Directing Group (Grad. Sch. Eng., Osaka Univ.) OKHAKI, Shrikant; CHATANI, Naoto
- 2H1-06[#]** Rhodium(I)-Catalyzed Reaction of *N*-(2-(methylthio)phenyl)benzamide with Maleimide. (Grad. Sch. Eng., Osaka Univ.) OSKHIRI, Aymen; CHATANI, Naoto
- 2H1-07** Construction of Fused Cyclic Compounds by Rhodium-Catalyzed Dehydrogenative Coupling of Aromatic Carboxylic Acids with Internal Alkynes (Grad. Sch. Sci., Osaka City Univ.) ONAI, Yasuhiro; SATOH, Testuya; USUKI, Yoshinosuke

Chair: SUZUKI, Hirotosugu (10 : 20 ~ 11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(2H1-09, 2H1-10, 2H1-11, 2H1-12, 2H1-13, 2H1-14, 2H1-15)
- 2H1-09** Regioselective Preparation of 2-Haloquinolines from a Rh Catalyst and 1-Azido-2-[(2,2-dihalovinyl)(Boc)amino]arenes (Sch. Life Sci. Tech., Tokyo Tech.) OHATA, Takeshi; ABE, Teppei; SHIGETA, Masayuki; URABE, Hirokazu
- 2H1-10** Synthesis of Nitrogen Containing Fused-Tetracyclic Compounds through Rh-Catalyzed Reaction of Carboxylic Acid with Alkynes (Fac. Sci., Osaka Pref. Univ.) OHIRATA, Daiji; FUKUYAMA, Takahide
- 2H1-11** Synthesis of Triphosphate Derivatives by Rhodium-catalyzed Addition of Pentaphenylcyclopentaphosphine to Alkynes (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; SAWAHATA, Kyosuke; YAMAGUCHI, Masahiko
- 2H1-12** Rhodium-Catalyzed Addition of Dialkylphosphinyl Groups to Azobenzenes. (Grad. Sch. Pharm. Sci., Tohoku Univ.) TANII, Saori; ONO, Koki; ARISAWA, Mieko; YAMAGUCHI, Masahiko
- 2H1-13** Electron-Deficient Cp-Rhodium(III)-Catalyzed Intramolecular Oxidation of Alkenes with α -Amino Acid Derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) TAKAHASHI, Hiroto; TANAKA, Ken
- 2H1-14** Rhodium(III)-Catalyzed Oxidative C-H Bond Olefination of *O*-Phenyl Carbamates (Sch. Mater. & Chem. Tech., Tokyo Tech.) TANAKA, Jin; TANAKA, Ken
- 2H1-15** Asymmetric Synthesis and Stereochemical Assignment of ¹²C/¹³C Isotopomers (Grad. Sch. Eng., Kyoto Univ.) OMIURA, Tomoya; NAKAMURO, Takayuki; NAGATA, Yuuya; MORIYAMA, Daisuke; STEWART, G. Scott; MURAKAMI, Masahiro

Monday, March 23, PM

Chair: IWASAKI, Takanori (12 : 40 ~ 13 : 50)

- * 12:30-12:40: interval for laptop PC connection.(2H1-23, 2H1-25, 2H1-26, 2H1-27, 2H1-29)
- 2H1-23[#]** Rhodium-Catalyzed Stitching Polymerization of Alkynylsilylacetylenes and Their Homologues (Grad. Sch. Eng. Sci., Osaka Univ.) OIKEDA, Sho; SHINTANI, Ryo
- 2H1-25** Catalytic Synthesis of Benzonaphthosilines by [2 + 2 + 2] Cycloaddition (Grad. Sch. Eng. Sci., Osaka Univ.) OMAESATO, Takumi; SHINTANI, Ryo
- 2H1-26** Efficient Synthesis of Multi-substituted Fluorenes by Using a Rhodium-Catalyzed Stitching Reaction as the Key Step (Grad. Sch. Eng. Sci., Osaka Univ.) ONISHIDA, Masaki; SHINTANI, Ryo
- 2H1-27[#]** Rhodium-catalyzed meta-Selective Carboxylation Reaction of 1,1-Diarylethylenes via Hydrohodation-Rhodium Migration (Sch. Sci., Tokyo Tech.) OSAITOU, Takanobu; TORIUMI, Naoyuki; IWASAWA, Nobuharu

- 2H1-29[#]** Asymmetric Synthesis of α -Aminoborates via Rhodium-Catalyzed Enantioselective C(sp³)-H Borylation (Fac. Sci., Hokkaido Univ.) OREYES, Ronald; SATO, Miyu; IWAI, Tomohiro; SAWAMURA, Masaya

Chair: KOJIMA, Masahiro (14 : 00 ~ 15 : 10)

- * 13:50-14:00: interval for laptop PC connection.(2H1-31, 2H1-32, 2H1-33, 2H1-34, 2H1-35, 2H1-36, 2H1-37)
- 2H1-31[#]** *trans*-Selective Hydroboration of Terminal Alkynes Catalyzed by Pincer Rh Catalyst (Sch. Sci., Tokyo Tech.) OLYU, Yanzong; TORIUMI, Naoyuki; IWASAWA, Nobuharu
- 2H1-32** Chemoselective Hydrosilylation of Nitriles to Imines Catalyzed by a Rhodium Complex Having a Pincer-Type Gallylene Ligand (Sch. Sci., Tokyo Tech.) OOGAWA, Koki; NAKAYA, Ryota; TAKAYA, Jun; IWASAWA, Nobuharu
- 2H1-33** Rhodium-Catalyzed Cross-[2+2+2] Cycloaddition of Teraryl-Linked Diynes with Alkynes (Sch. Mater. & Chem. Tech., Tokyo Tech.) OORIKI, Tomohiro; SUZUKI, Shunsuke; TANAKA, Ken
- 2H1-34** Enantioselective Synthesis of Π -extended Aza[7]helicenes Possessing Stable Helical Chirality by Rhodium-Catalyzed [2+2+2] Cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.) OHANADA, Kyoichi; TANAKA, Ken
- 2H1-35** Rhodium-Catalyzed Oxidation of Peptide Thiols (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; OFUKUMOTO, Kohei; YAMAGUCHI, Masahiko
- 2H1-36** Rhodium-Catalyzed Synthesis of Acylsilanes (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; OHAYAKAWA, Takeru; YAMAGUCHI, Masahiko
- 2H1-37** Synthesis of Cycloalkyl/Steroidal Heteroaryl Sulfides Using Rhodium-Catalyzed Heteroaryl Exchange Reaction (Grad. Sch. Pharm. Sci., Tohoku Univ.) ARISAWA, Mieko; ONAKAI, Katsuya; SUZUKI, Ren; YAMAGUCHI, Masahiko

Chair: MICHIGAMI, Kenichi (15 : 20 ~ 16 : 30)

- * 15:10-15:20: interval for laptop PC connection.(2H1-39, 2H1-40, 2H1-41, 2H1-43, 2H1-44)
- 2H1-39** Enantioselective Synthesis of Axially Chiral Styrenes by Rhodium-Catalyzed [2+2+2] cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.) OYOKOSE, Daisuke; KINOSHITA, Suzuka; TANAKA, Ken
- 2H1-40** Rhodium-Catalyzed Chemo-, Regio-, Diastereo-, and Enantioselective Cross-Cyclotrimerization of Terminal Alkynes, Acetylenecarboxylates, and Enamides (Sch. Mater. & Chem. Tech., Tokyo Tech.) OFUJII, Kohei; MASUTOMI, Koji; SHIBATA, Yu; TANAKA, Ken
- 2H1-41[#]** Enantioselective Synthesis of π -Extended Chiral Triptycenes and PAH-based Chiral Cyclophanes by Asymmetric [2+2+2] Cycloaddition (Sch. Mater. & Chem. Tech., Tokyo Tech.) AIDA, Yukimasa; SUGIYAMA, Haruki; UEKUSA, Hidehiro; SHIBATA, Yu; TANAKA, Ken
- 2H1-43** β -Acylalkylation of Allylbenzene Derivatives via Rhodium-Catalyzed C-C Bond Cleavage (Fac. Sci. Tech., Keio Univ.) OSHIKAWA, Soya; ONODERA, Syunsuke; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2H1-44[#]** Rhodium-Catalyzed Carbon-Carbon Bond Formation via Cleavage of Aryl-Alkenyl Bonds (Fac. Sci. Tech., Keio Univ.) ONODERA, Shunsuke; TOGASHI, Ryo; ISHIKAWA, Soya; KOCHI, Takuya; KAKIUCHI, Fumitoshi

Chair: SATO, Takuma (16 : 40 ~ 17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2H1-47, 2H1-48, 2H1-49, 2H1-50, 2H1-51, 2H1-52)
- 2H1-47** Anti-Markovnikov Hydroamination of Aromatic Terminal Alkynes with Primary Amines Catalyzed by Quinolinolate Rhodium Catalyst (Fac. Sci. Tech., Keio Univ.) MORIMOTO, Yoshihiko; KOCHI, Takuya; KAKIUCHI, Fumitoshi
- 2H1-48** Rhodium Complex-Catalyzed Reductive Alkylation of 9,10-Phenanthrenequinone with 2-Norbornenes (Grad. Sch. Eng., Kyoto Univ.) IMAIZUMI, Takuro; KIMURA, Yu; KONDO, Teruyuki
- 2H1-49** Highly Enantioselective Synthesis of Axially Chiral PAH Compounds via C-C Bond Activation of Biphenylenes and Their Physical Properties (Sch. Advanced Sci. Eng., Waseda Univ.) SHIOZAWA, Natsumi; TAKANO, Hideaki; IMAI, Yoshitane; KANYIVA, Kyalo Stephen; SHIBATA, Takanori
- 2H1-50** Rh(I)/Pd(0)-Catalyzed Cyclocarbonylation Reactions of *C*-Nucleophile-Tethered Haloarenes Using Aldehydes as a Carbonyl Source (Grad. Sch. Mat. Sci., NAIST) MORIMOTO, Tsumoru; YAMASHITA, Mana; TOMIE, Ai; KAKIUCHI, Kiyomi
- 2H1-51** Enantioselective C(sp³)-H functionalization catalyzed by Cp*Rh(III)/chiral carboxylic acid (Grad. Sch. Pharm., Hokkaido Univ.) OKATO, Yoshimi; LIN, Luqing; KOJIMA, Masahiro; YOSHINO, Tatsuhiko; MATSUNAGA, Shigeki
- 2H1-52** Rhodium-Catalyzed Reaction Using a Borylsilane as a Synthetic Equivalent of Silylene: [2+2+1] Cycloaddition with Ketone as a Two Atom Component (Grad. Sch. Eng., Kyoto Univ.) TAKAOKA, Yuta; SASAKI, Ikuo; OHMURA, Toshimichi; SUGINOME, Michinori

Tuesday, March 24, AM

Au

Chair: NAGAO, Kazunori (9 : 00 ~ 9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3H1-01, 3H1-02, 3H1-03, 3H1-04)

- 3H1-01** Gold(I)-Catalyzed [2 + 3] Cycloaddition of Difluoroallenes with Nitrile Oxides: Synthesis of Fluorine-Substituted Isoxazoline (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SAKON, Kazuki; FUCHIBE, Kohei; ICHIKAWA, Junji
- 3H1-02** Gold(I)-catalyzed [2 + 2] Cycloaddition of Difluoroallenes with Styrenes: Synthesis of Difluoromethylenated Cyclobutanes (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○SASAKI, Mizore; SUTO, Kyosuke; FUSHIHARA, Tatsuki; FUCHIBE, Kohei; ICHIKAWA, Junji
- 3H1-03** Construction of Nitrogen-Containing Seven- and Eight-Membered Rings by Gold(I)-Catalyzed Cycloisomerization (Sch. Advanced Sci. Eng., Waseda Univ.) ○TAKAKI, Asahi; ITO, Mamoru; KANYIVA, Stephen Kyalo; SHIBATA, Takanori
- 3H1-04** Gold-Catalyzed Dual C-C Bond Activation of Biphenylenes Possessing a Pendant Alkyne under Ambient Temperature (Sch. Advanced Sci. Eng., Waseda Univ.) ○OKAZAKI, Sari; NISHIBE, Shun; TAKANO, Hideaki; ITO, Takeharu; SHIOZAWA, Natsumi; KANYIVA, Kyalo Stephen; SHIBATA, Takanori

Tuesday, March 24, PM

Ag

Chair: KUBOTA, Koji (12 : 40 ~ 13 : 20)

* 12:30-12:40: interval for laptop PC connection.(3H1-23, 3H1-24, 3H1-25, 3H1-26)

- 3H1-23** Stereoselective Synthesis of (Z)-2-Iodoallylamine Derivatives by the Silver-Catalyzed Reaction of *N*-Alkylpropargylamines with Iodinating Reagents (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○ISHIBASHI, Hisayasu; CHATANI, Naoto
- 3H1-24** A mechanistic study of Ag-Catalyzed Benzylic Isocyanation (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○TANGE, Yuji; TAIGA, Yurino; TAKESHI, Ohkuma
- 3H1-25** Silver-Catalyzed Asymmetric Aldol Reaction of Isocyanacetamides with a Prolinol-Phosphine Chiral Ligand (Fac. Sci., Hokkaido Univ.) ○IMAI, Koji; FUJIOKA, Akane; SHIMIZU, Yohei; SAWAMURA, Masaya

Cu

- 3H1-26[#]** Cu-catalyzed Asymmetric Allylic Acylation with Acylsilanes under Photoirradiation (Fac. Sci., Hokkaido Univ.) ○UEDA, Yusuke; IWAI, Tomohiro; SAWAMURA, Masaya

Chair: YURINO, Taiga (13 : 30 ~ 14 : 10)

* 13:20-13:30: interval for laptop PC connection.(3H1-28, 3H1-29, 3H1-30, 3H1-31)

- 3H1-28** Copper-Catalyzed Enantioselective Reductive Cross-Coupling of Aldehydes and Imines (Grad. Sch. Med. Sci., Kanazawa Univ.) ○MITSUI, Atsuhisa; NAGAO, Kazunori; OHMIYA, Hirohisa
- 3H1-29** Copper-Catalyzed Enantioselective Reductive Coupling of Aldehydes and Propargylic Phosphates (Grad. Sch. Med. Sci., Kanazawa Univ.) ○KONDO, Yui; NAGAO, Kazunori; OHMIYA, Hirohisa
- 3H1-30** Copper-Complex-Mediated Reductive Coupling of CO₂ and an Aldehyde for the Synthesis of α -Hydroxycarboxylic Acids (Grad. Sch. Eng., The Univ. of Tokyo) ○MASADA, Koichiro; KUSUMOTO, Shuhei; NOZAKI, Kyoko
- 3H1-31** Copper-Catalyzed Asymmetric Reductive Aldol Reaction Using Unprotected Acrylic Acids (Grad. Sch. Sci., TUS) ○YONEOKA, Kenji; SUZUKI, Hirotugu; MATSUDA, Takanori

Chair: ONODERA, Gen (16 : 00 ~ 16 : 50)

* 15:50-16:00: interval for laptop PC connection.(3H1-43, 3H1-44, 3H1-45, 3H1-46)

- 3H1-43** Efficient Synthesis of *meta*-Aminophenol Derivatives by Cu-catalyzed [1,3]-Alkoxy Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○TACHIBANA, Mai; TASHIRO, Hiroki; NAKAMURA, Itaru; TERADA, Masahiro
- 3H1-44** Copper-catalyzed cross-coupling reaction at secondary alkyl 2-pyridinesulfonates with organolithium reagents (Sch. Sci. Eng., Meiji Univ.) ○SATO, Yuta; KOBAYASHI, Yuichi; OGAWA, Narihito
- 3H1-45[#]** Enantioconvergent Intramolecular Coupling of α -Aminobenzylboronic Esters Using Copper-Bipyridine-Based Helically Chiral Polymer Catalysts (Grad. Sch. Eng., Kyoto Univ.) ○YOSHINAGA, Yukako; YAMAMOTO, Takeshi; SUGINOME, Michinori
- 3H1-46^{*}** Computational Mechanistic Investigation of Direct Enantioconvergent Borylation Reaction (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○OZAWA, Yu; IWAMOTO, Hiroaki; TAKENOCHI, Yuta; IMAMOTO, Tsuneo; ITO, Hajime

Chair: NISHII, Yuji (17 : 00 ~ 17 : 50)

* 16:50-17:00: interval for laptop PC connection.(3H1-49, 3H1-50, 3H1-51, 3H1-52, 3H1-53)

- 3H1-49** Dearomative silylation of indoles and pyrroles (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○TAKAHASHI, Rikuro; HAYAMA, Keiichi; KUBOTA, Koji; ITO, Hajime
- 3H1-50** Copper(I)-Catalyzed Enantioselective Borylative Dearomatization of Pyrroles (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○HAYAMA, Keiichi; KOJIMA, Ryoto; KUBOTA, Koji; ITO, Hajime
- 3H1-51** Study on Synthesis of Oxaborole toward Highly Selective Formation of Tri- and Tetrasubstituted Alkenes (Grad. Sch. Eng., Nagasaki Univ.) ○SUEYOSHI, Tatsumi; NUNODA, Akira; AKA, Yuki; FUKUDA, Tsutomu; ONODERA, Gen; KIMURA, Masanari
- 3H1-52** Synthetic of Organofluorine Compounds Including Tetrafluoroethylene Bridge Structure Adjacent to Heteroatom (Grad. Sch. Eng., Osaka Univ.) ○SUNAGAWA, Denise Eimi; ISHIDA, Naoyoshi; IWAMOTO, Hiroaki; OHASHI, Masato; OGOSHI, Sensuke
- 3H1-53** Synthesis of Imidazo[1,5-*d*]pyridine Carbene Ligands Bearing Sulfonyl Groups at the 5-Position and Application to Copper-Catalyzed Hydroboration of Alkynes (Fac. Eng., Gifu Univ.) ○KANAMORI, Masaya; SHIBAHARA, Fumitoshi; MURAI, Toshiaki

Chair: IWAMOTO, Hiroaki (18 : 00 ~ 18 : 50)

* 17:50-18:00: interval for laptop PC connection.(3H1-55, 3H1-56, 3H1-57, 3H1-58, 3H1-59)

- 3H1-55** Degradation of Tetrazole-5-acetamides with a Cu Catalyst and Diaryliodonium Salts (Sch. Life Sci. Tech., Tokyo Tech.) SAGA, Kohei; ○ITO, Sho; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 3H1-56** Cu-catalyzed Regioselective Arylation of Tetrazole-5-acetamide's at Their 1-Positions with Diaryliodonium Salts (Sch. Life Sci. Tech., Tokyo Tech.) ○SAGA, Kohei; SHIGETA, Masayuki; HATAKESHI, Takeshi; URABE, Hirokazu
- 3H1-57** Copper-Mediated C-H Sulfenylation and Selenation of Phenol Derivatives by Phenanthroline-Type Bidentate Auxiliary (Grad. Sch. Eng., Osaka Univ.) ○KAJIWARA, Rikuo; TAKAMATSU, Kazutaka; HIRANO, Koji; MIURA, Masahiro
- 3H1-58** Copper-Catalyzed Regioselective Direct Arylation of Triptycene Derivatives (Grad. Sch. Eng., Osaka Univ.) ○UENO, Keisuke; NISHII, Yuji; MIURA, Masahiro
- 3H1-59** One-Pot Synthesis of α -Aminosilanes by Copper-Catalyzed Hydrosilylation/Hydroamination Sequence of Terminal Alkynes (Grad. Sch. Eng., Osaka Univ.) ○NISHINO, Soshi; HIRANO, Koji; MIURA, Masahiro

Wednesday, March 25, AM

Ti

Chair: KOCHI, Takuya (9 : 00 ~ 10 : 10)

* 8:50-9:00: interval for laptop PC connection.(4H1-01, 4H1-02, 4H1-03, 4H1-04, 4H1-05, 4H1-06, 4H1-07)

- 4H1-01** Cross Coupling Reaction between Alcohols and Alkenyl Halides via C-OH Bond Homolysis (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TAKAHASHI, Yuki; SUGA, Takuya; UKAJI, Yutaka

Ni

- 4H1-02** Hydroboration Reaction of Vinylarenes Catalyzed by Nickel Pincer Complexes (Grad. Fac. Eng., Yokohama Natl. Univ.) ○SHIOTA, Keisuke; HASHIMOTO, Toru; YAMAGUCHI, Yoshitaka
- 4H1-03** Nickel-Catalyzed Reductive Zincation of Arylsulfonium Salts (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YAMADA, Kodai; YANAGI, Tomoyuki; NOGI, Keisuke; YORIMITSU, Hideki
- 4H1-04** Nickel-Catalyzed C-F/N-H Annulation of Aromatic Amides with Alkynes via The Cleavage of Carbon-Fluorine Bonds (Grad. Sch. Eng., Osaka Univ.) ○NOHIRA, Itsuki; CHATANI, Naoto
- 4H1-05[#]** Nickel-Catalyzed C-O/N-H Annulation of Aromatic Amides with Alkynes via the Cleavage of Carbon-Oxygen Bonds (Grad. Sch. Eng., Osaka Univ.) ○IYORI, Yasuaki; CHATANI, Naoto
- 4H1-06** Ni-catalyzed regioselective C-H arylation of arylamines (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○KAWASAKI, Hiroto; AOKI, Yuma; TAKAYA, Hikaru; NAKAMURA, Masaharu
- 4H1-07** Nickel-Catalyzed Reaction of 2-Butynyl Carbonates with 1,3-Dicarbonyl Compounds (Grad. Sch. Eng., Kyoto Univ.) ○KAMINO, Yuka; HORI, Yusaku; ISHIDA, Naoki; MURAKAMI, Masahiro

Wednesday, March 25, PM

Na

Chair: TSURUGI, Hayato (12 : 40 ~ 13 : 40)

* 12:30-12:40: interval for laptop PC connection.(4H1-23, 4H1-26, 4H1-28)

- 4H1-23[#]** Young Scholar Lectures of CSJ Exploration of Organic Synthesis Using Abundant and Stable Compounds (RIKEN CSRS) ○ASAKO, Sobi

4H1-26[#] Preparation of Organosodium Compounds through Halogen-Sodium Exchange (RIKEN CSRS; Grad. Sch. Nat. Sci. Technol., Okayama Univ.)
○TAKAHASHI, Ikko; NAKAJIMA, Hirotaka; ILIES, Laurean; ASAKO, Sobi; TAKAI, Kazuhiko

B

4H1-28 Addition of Pyrrole at its β -Position to Electron-Deficient Alkenes (Sch. Sci. Eng., Meiji Univ.) ○KAWAKAMI, Maho; SUDO, Takumi; TSUCHIMOTO, Teruhisa

Chair: NAGAO, Kazunori (13 : 50~14 : 40)

* 13:40-13:50: interval for laptop PC connection.(4H1-30, 4H1-31, 4H1-33, 4H1-34)

4H1-30 Direct Suzuki-Miyaura Cross-Coupling Reaction of Aryl-B(dan) (Sch. Sci. Eng., Meiji Univ.) ○ANDOH, Hiroki; YAJIMA, Tomoki; TANI, Tomohiro; TSUCHIMOTO, Teruhisa

4H1-31[#] Transition-Metal-Free Radical Borylation of Organohalides with Boryl Stannanes (Grad. Sch. Eng., Osaka Univ.) ○SUZUKI, Kensuke; NISHIMOTO, Yoshihiro; YASUDA, Makoto

4H1-33 Reductive 1,2-Diboration of Alkynes by Means of Sodium Metal and Trimethoxyborane (Dep. Chem., Sch. Sci., Kyoto Univ.) ○ITO, Shiori; FUKAZAWA, Mizuki; TAKAHASHI, Fumiya; NOGI, Keisuke; YORIMITSU, Hideki

4H1-34 Reductive Difunctionalization of Alkenes by Means of Sodium Metal (Dep. Chem., Sch. Sci., Kyoto Univ.) ○FUKAZAWA, Mizuki; TAKAHASHI, Fumiya; NOGI, Keisuke; YORIMITSU, Hideki

Chair: NOGI, Keisuke (14 : 50~15 : 40)

* 14:40-14:50: interval for laptop PC connection.(4H1-36, 4H1-37, 4H1-38, 4H1-39, 4H1-40)

4H1-36 C(sp³)-C(sp³) Coupling of Tertiary Alkylborates and Secondary Alkyl Halides (Grad. Sch. Med. Sci., Kanazawa Univ.) ○TAKEDA, Mitsutaka; NAGAO, Kazunori; OHMIYA, Hirohisa

4H1-37 Tertiary Alkylations of Aldehydes, Ketones or Imines Using Organoboronates and a Base Catalyst (Grad. Sch. Med. Sci., Kanazawa Univ.) ○SATO, Yukiya; NAKAMURA, Kei; YABUSHITA, Kenya; NAGAO, Kazunori; OHMIYA, Hirohisa

4H1-38 Direct Visible Light-Excitation of Tertiary Alkylborates Enabling Carbon-Carbon Bond Formation (Grad. Sch. Med. Sci., Kanazawa Univ.; IBB, Tokyo Med. and Dental Univ.; RIKEN BDR) ○NAKAMURA, Kei; SATO, Yukiya; SUMIDA, Yuto; HOSOYA, Takamitsu; OHMIYA, Hirohisa

4H1-39[#] Synthesis of Ar-B(dan) by the Reaction of Aryl Grignard Reagents with H-B(dan) (Grad. Sch. Eng., Hiroshima Univ.) ○LI, Jialun; SEKI, Michinari; OSAKA, Itaru; YOSHIDA, Hiroto

4H1-40 Photo-induced activation of B-B bond: Quadruple Borylation of Terminal Alkynes (Grad. Sch. Pharm., The Univ. of Tokyo) ○YUKIMORI, Daiki; NAGASHIMA, Yuki; UCHIYAMA, Masanobu

Room H2

Lecture Hall Bldg. K603

Coordination Chemistry, Organometallic Chemistry

Sunday, March 22, PM

Chair: FUJITA, Ken-ichi (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1H2-23, 1H2-26, 1H2-27, 1H2-28)

1H2-23[#] Young Scholar Lectures of CSJ Metal-Ligand Cooperative Bond Activation and its Application to Catalysis (Grad. Sch. Eng., The Univ. of Tokyo) ○KUSUMOTO, Shuhei

Si, Ge, Sn, Pb

1H2-26 Synthesis of a Bicyclo[1.1.0]tetrasilane Containing a Planar Silicon Framework (Grad. Sch. Sci., Tohoku Univ.) ○NUKAZAWA, Takumi; IWAMOTO, Takeaki

1H2-27 Synthesis and Properties of a Silicon Cluster Containing a Phosphorus Atom (Grad. Sch. Sci. Tech., Gunma Univ.) ○TSMURAYA, Tomohiro; TAKAHASHI, Masahide; KYUSHIN, Soichiro

1H2-28 Synthesis and Photophysical Properties of Various Symmetrical and Unsymmetrical Bis(alkenyl)tetrasilanes (Grad. Sch. Sci. Tech., Gunma Univ.) ○HONMA, Ryuya; KANNO, Ken-ichiro; KYUSHIN, Soichiro

Chair: MIZUHATA, Yoshiyuki (13 : 50~14 : 50)

* 13:40-13:50: interval for laptop PC connection.(1H2-30, 1H2-31, 1H2-32, 1H2-33, 1H2-34, 1H2-35)

1H2-30 Synthesis of Unsymmetrical Disilene Substituted by Silyl and Alkyl groups (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○HIBI, Fuya;

NABESHIMA, Tatsuya; ITHINOHE, Masaaki

1H2-31 Synthesis of Asymmetrical Disilene Compounds (Grad. Sch. Sci. Eng., Kindai Univ.) ○YAGURA, Shogo; OHNO, Ryoma; MATSUO, Tsukasa

1H2-32 Reaction of Disilyne with Zinc Halides (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TSUZAKI, Jun; NABESHIMA, Tatsuya; ICHINOHE, Masaaki

1H2-33 Syntheses and Properties of Tetrylenes Stabilized by an Intramolecular NHC Ligand (Grad. Sch. Sci., Eng., Saitama Univ.) ○KOBAYASHI, Yoshiki; NAKATA, Norio; ISHII, Akihiko

1H2-34 Synthesis of Alkyl-substituted 1,2-Dilithiodisilane (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TOJO, Shoma; NABESHIMA, Tatsuya; ICHINOHE, Masaaki

1H2-35 Reaction of porphyrin silicon complex with carbonyl compounds (Grad. Sch. Sci., Tohoku Univ.) ○HATAKEYAMA, Takuro; ISHIDA, Shintaro; IWAMOTO, Takeaki

Chair: IGARASHI, Masayasu (15 : 00~16 : 00)

* 14:50-15:00: interval for laptop PC connection.(1H2-37, 1H2-38, 1H2-39, 1H2-40, 1H2-41, 1H2-42)

1H2-37 Reactivity of Cyclic Oligosilanes Having Alkyl and Chlorine Groups at the Silicon Center (ICR, Kyoto Univ.) ○OMATSU, Yamato; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1H2-38 Synthesis and Photophysical Properties of Novel Alkenyloligosilanes with Polycyclic Aromatic Substituents (Grad. Sch. Sci. Tech., Gunma Univ.) ○HAMANO, Ginga; KANNO, Ken-ichiro; KYUSHIN, Soichiro

1H2-39 Synthesis of Ladder Oligosilanes with Terminal Phenyl Groups (Grad. Sch. Sci. Tech., Gunma Univ.) ○IWATA, Kazuya; KYUSHIN, Soichiro

1H2-40 Synthesis of a Cage-Shaped Oligosilane with a Large Cavity (Grad. Sch. Sci. Tech., Gunma Univ.) ○TAKAHASHI, Masahide; KASAHARA, Kazuhiro; KYUSHIN, Soichiro

1H2-41 Improvement of selectivity in chain-length of the one-silicon homologation reaction (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○TAKAMORI, Atsushi; NARUSE, Yuji

1H2-42 Deprotonation of diphenylsilane with silyllithiums with bulky substituents (Fac. Eng., Gifu Univ.) ○ITO, Syoki; TAKAMORI, Atsushi; NARUSE, Yuji

Chair: KANNO, Ken-ichiro (16 : 10~17 : 10)

* 16:00-16:10: interval for laptop PC connection.(1H2-44, 1H2-45, 1H2-46, 1H2-47, 1H2-48, 1H2-49)

1H2-44 Synthesis of Cubic Siloxane bearing Reactive Functional Group (IRC3, AIST) ○NOZAWA, Takeshi; MATSUMOTO, Tomohiro; YAGIHASHI, Fujio; SATO, Kazuhiko; IGARASHI, Masayasu

1H2-45 Synthesis of low-coordinate germanium compounds based on 1-germaazulene skeleton (ICR, Kyoto Univ.) ○OSHIRO, Taku; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1H2-46 Synthesis and Properties of 2-Germanaphthalenyl Anion (ICR, Kyoto Univ.) ○TSUJI, Shingo; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro

1H2-47 Reaction of a Stable Dialkylgermylene Bearing Extended Triptycyl Groups with Reagents for Introduction of Group 16 Elements (Coll. Sci., Rikkyo Univ.) ○SUZUKI, Fumiaki; MINOURA, Mao

1H2-48 Synthesis and Reactivity of Tetragermacyclobutadiene (Fac. Sci. Eng., Kindai Univ.) ○KURODA, Aimi; NUMATA, Yasuyuki; HASHIZUME, Daisuke; MATSUO, Tsukasa

1H2-49 Synthesis and Reactivity of Tetrastannacyclobutadiene (Fac. Sci. Eng., Kindai Univ.) ○NISHIKAWA, Yuri; NUMATA, Yasuyuki; HASHIZUME, Daisuke; MATSUO, Tsukasa

Chair: MATSUO, Tsukasa (17 : 20~18 : 20)

* 17:10-17:20: interval for laptop PC connection.(1H2-51, 1H2-52, 1H2-53, 1H2-54, 1H2-55)

1H2-51 Synthesis and reactivity of iminophosphonamido chloroplumbylene (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKAHASHI, Shintaro; NAKATA, Norio; ISHII, Akihiko

1H2-52 Synthetic Studies of a Stannacyclopentadienyl Cation (Grad. Sch. Sci. Eng., Chuo Univ.) ○KITAMURA, Kohei; KUWABARA, Takuya; ISHII, Youichi

Mo

1H2-53 Substituent Effects on Catalytic Reduction of Dinitrogen to Ammonia by Using Water as Proton Sources. (Fac. Eng., The Univ. of Tokyo) ○MITSUMOTO, Taichi; ASHIDA, Yuya; ARASHIBA, Kazuya; KURIYAMA, Shogo; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

1H2-54 Preparation and Reactivity of a Molybdenum Complex Bearing Pyrrole-Based PNP-Type Pincer Ligand (Grad. Sch. Eng., The Univ. of Tokyo) ○TANABE, Yoshiaki; SEKIGUCHI, Yoshiya; KURIYAMA, Shogo; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki

1H2-55[#] Elucidation of mechanism for photocatalytic CO₂ reduction using a Mo complex as a photocatalyst (Grad. Sch. Sci., Nagoya Univ.) ○JUNG, Jieun; OKUWA, Hiroko; KAMADA, Kenji; SAITO, Susumu

Monday, March 23, AM

Fe

Chair: ISHIDA, Yutaka (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(2H2-01, 2H2-03, 2H2-04, 2H2-05, 2H2-06)

2H2-01* Synthesis and Reactivity of a Trinuclear Chromium Carbonyl (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○KUROGI, Takashi; ENOKI, Takahiro; TAKAI, Kazuhiko**2H2-03** Hydrogenation of a trinuclear chromium imide complex derived from N₂ activation (RIKEN CSRS) ○SHIMA, Takanori; HOU, Zhaomin**2H2-04** Chromium-catalyzed C-C Bond Formation of (*gem*)-Trihaloalkanes with Aldehydes in the Presence of Organosilicon Reductants (Sch. Eng. Sci., Osaka Univ.) ○NISHI, Kohei; IKEDA, Hideaki; TSURUGI, Hayato; MASHIMA, Kazushi**2H2-05*** Mechanistic Studies for Chromium-catalyzed Cyclopropanation of Alkenes in the Presence of Organosilicon Compounds as a Reductant (Grad. Sch. Eng. Sci., Osaka Univ.) ○IKEDA, Hideaki; NISHI, Kohei; TSURUGI, Hayato; MASHIMA, Kazushi**2H2-06** Chromium Complexes Catalyzed Ammonia Formation under Ambient Reaction Conditions (Grad. Sch. Eng., The Univ. of Tokyo) ○ASHIDA, Yutaka; NISHIBAYASHI, Yoshiaki

Chair: TSURUGI, Hayato (10 : 10 ~ 11 : 10)

* 10:00-10:10: interval for laptop PC connection.(2H2-08, 2H2-09, 2H2-10, 2H2-11, 2H2-12)

2H2-08 Study on Iron(II) Spin Crossover Complexes Chelated with 2,6-Bis(1-pyrazolyl)pyridine-based Ligands (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○SODA, Shuto; ISHIDA, Takayuki**2H2-09*** Thioketone and Thiochalcone based [FeFe]-Hydrogenase Mimics (Friedrich Schiller University Jena, Germany) ○WEIGAND, Wolfgang Christian**2H2-10** Dinitrogen Activation by Iron Bisamide Complexes Having Metalloene Skeleton (Grad. Sch. Sci., Osaka Univ.; Sch. Sci., Tokyo Tech.) ○KUSUNOSE, Hinano; HATANAKA, Tsubasa; KAWAGUCHI, Hiroyuki; FUNAHASHI, Yasuhiro**2H2-11** Synthesis of Iron and Nickel Silyl Complexes from the Reactions of Metal Precursors with Hydrosilanes having Multiple Si-H Bonds (IIS, The Univ. of Tokyo) ○AZUMAYA, Koki; SUNADA, Yusuke**2H2-12**** Iron-catalyzed C-H Borylation of Aromatic Compounds (Sch. Sci., Kitasato Univ.) ○KAMITANI, Masahiro; KUSAKA, Haruki; YUGE, Hidetaka

Chair: SUNADA, Yusuke (11 : 20 ~ 12 : 20)

* 11:10-11:20: interval for laptop PC connection.(2H2-15, 2H2-16, 2H2-17, 2H2-18, 2H2-19, 2H2-20)

2H2-15 Synthesis of Fe complex having hydroquinone-substituted N-heterocyclic carbene ligand (Grad. Sch. Eng., Nagoya Univ.) ○ASAKA, Kazuyoshi; OHASHI, Ken-ichi; ITO, Jun-ichi; YAMASHITA, Makoto**2H2-16** Synthesis of CNC-pincer Fe complex and its application to catalytic hydrogenation of alkenes (Grad. Sch. Eng., Nagoya Univ.) ○TANIGUCHI, Wakano; ITO, Jun-ichi; YAMASHITA, Makoto**2H2-17** Vinylidene Rearrangement of Sulfonyl- and Thioalkynes at an Iron Complex and Chromic Behaviors of the Products. (Fac. Sci. Eng., Chuo Univ.) ○SEKIGUCHI, Yuhei; AOKI, Yutaka; KUWABARA, Takuya; ISHII, Youichi

Ru

2H2-18 Synthesis and Reactivities of Ruthenium Complex Bearing Diprotic facial-Tridentate Bis(pyrazole) Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○KAWASAKI, Kentaro; SAITO, Kento; KAYAKI, Yoshihito; KUWATA, Shigeki**2H2-19** Synthesis and Reactivity of Protic Pincer-type Pyrazole Ruthenium Complexes bearing Acetonitrile Ligands in the Axial Position. (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKAHASHI, Shogo; SUZUKI, Satoshi; TODA, Tatsuhiro; KUWATA, Shigeki**2H2-20** Synthesis and Reactivity of Diphosphine-Bridged Diruthenium Complexes Bearing Protic Chelate Ligands (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Satoshi; TODA, Tatsuhiro; KUWATA, Shigeki

Monday, March 23, PM

Chair: ITO, Junichi (13 : 30 ~ 14 : 30)

* 13:20-13:30: interval for laptop PC connection.(2H2-28, 2H2-30, 2H2-31, 2H2-32, 2H2-33)

2H2-28** Synthesis of new complexes for the alcohol dehydrogenation reaction and the sulfonylation of alcohols via dehydrogenation catalysis (OIST) ○KHASKIN, Eugene; VOJKOVSKY, Tomas; DEOLKA, Shubham**2H2-30** Catalytic ammonia oxidation reaction based on photoinduced electron transfer (Grad. Sch. Eng., The Univ. of Tokyo) ○SOMEMORI, Kosuke; TODA, Hiroki; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki**2H2-31** Catalytic Synthesis and Electronic Properties of Ferrocenyl Con-

jugated Trienes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)

○SAWASAKI, Asami; KOMINE, Nobuyuki; HIRANO, Masafumi

2H2-32 Synthesis of Cp*Ru complexes with nitrile ligands and catalytic reaction using them (Grad. Sch. Sci., Kobe Univ.) ○MURAKAMI, Suguru; MATSUBARA, Ryosuke; HAYASHI, Masahiko**2H2-33** Synthesis and Reactivities of Six-coordinate Ruthenium Complexes Bearing Benzoquinone Dioxime Ligand (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HARADA, Takuya; KUWATA, Shigeki

Rh

Chair: NAGAE, Haruki (14 : 40 ~ 15 : 40)

* 14:30-14:40: interval for laptop PC connection.(2H2-35, 2H2-36, 2H2-37, 2H2-38, 2H2-39, 2H2-40)

2H2-35 Observation of β -Carbon Elimination to Give an Alkyne from a Vinylrhodium Complex (1) (Grad. Sch. Sci. Eng., Chuo Univ.) ○SHIBUYA, Kouichi; KUWABARA, Takuya; ISHII, Youichi**2H2-36** Observation of β -Carbon Elimination to Give an Alkyne from a Vinylrhodium Complex (2) (Fac. Sci. Eng., Chuo Univ.) ○TAKAKUWA, Tomoyuki; NAMBA, Takayuki; KUWABARA, Takuya; ISHII, Youichi**2H2-37** C-O Bond Activation by Rhodium-Aluminum Bimetallic Complexes (Sch. Eng., Kyoto Univ.) ○SEKI, Rin; HARA, Naofumi; SAITO, Teruhiko; NAKAO, Yoshiaki**2H2-38** Synthesis of PAIP Pincer Ligands Bearing a 2-Diphenylphosphino-phenoxy Backbone and Its Rhodium Complexes (Grad. Sch. Eng., Kyoto Univ.) ○FUJII, Ikuya; SEMBA, Kazuhiko; NAKAO, Yoshiaki**2H2-39** Synthesis of late metal complexes bearing a bis(oxazolonyl)methanide ligand and their application in catalysis. (Sch. Eng., Nagoya Univ.) ○YAMANASHI, Ryotaro; NAKANO, Ryo; YAMASHITA, Makoto**2H2-40*** Synthesis and Application of Cyclic Guanidine-based NCN Pincer Complex (Grad. Sch. Eng., Nagoya Univ.) ○LEE, Ming Min; NAKANO, Ryo; YAMASHITA, Makoto

Chair: SEMBA, Kazuhiko (15 : 50 ~ 16 : 50)

* 15:40-15:50: interval for laptop PC connection.(2H2-42, 2H2-43, 2H2-45, 2H2-46, 2H2-47)

2H2-42 Reactivities of Y-shaped 14-electron bis(silylene)-rhodium(I) complex (Fac. Sci., Saitama Univ.) ○SEKIGUCHI, Jueri; TAKAHASHI, Shintaro; NAKATA, Norio; ISHII, Akihiko**2H2-43**** Small Molecule Activation and Catalytic Reactivity of Rhodium and Cobalt Complexes of Bulky PNP Ligands (OIST) ○LAPINTE, Sebastien; KHASKIN, Eugene; KHUSNUTDINOVA, Julia**2H2-45** Asymmetric hydrogenation of simple olefins catalyzed by monohydride rhodium(III) complex with chiral diphosphine ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSUJIMOTO, Nagataka; HIGASHIDA, Kosuke; FABIAN, Bruning; HIGASHIHARA, Kenya; NAGAE, Haruki

Ir

2H2-46 Ring Expansion of an Ir-calix[4]arene complex via insertion of terminal alkynes (Grad. Sch. Sci. Eng., Chuo Univ.) ○MORI, Daiki; YAMAZAKI, Takuya; KUWABARA, Takuya; ISHII, Youichi**2H2-47** Vinylidene Rearrangement of Group 15/16 Element-Substituted Internal Alkynes at an Ir Complex (Grad. Sch. Sci. Eng., Chuo Univ.) ○AOKI, Yutaka; TAKAMORI, Shuhei; KUWABARA, Takuya; ISHII, Youichi

Chair: KUWABARA, Takuya (17 : 00 ~ 17 : 40)

* 16:50-17:00: interval for laptop PC connection.(2H2-49, 2H2-50, 2H2-51, 2H2-52)

2H2-49* C-O Bond Activation of Allylic Alcohols by Metallophosphine-Ligated Iridium Hydride Complex (Grad. Sch. Sci., Osaka Pref. Univ.) ○KAWAJI, Kanade; NISHIMURA, Minako; ○TAKEMOTO, Shin; MATSUZAKA, Hiroyuki**2H2-50** Hydrosilylation of 1,3-disubstituted allenes catalyzed by iridium complexes (Grad. Sch. Human. Sci., Nara Women's Univ.) ○TAKEUCHI, Ichino; SAMOTO, Shoko; URA, Yasuyuki; KATAOKA, Yasutaka**2H2-51** Synthesis of Unsymmetric Dinuclear Iridium Complexes Supported by Tetrakisphosphine Ligands and Their Reactivity (Fac. Sci., Nara Women's Univ.) ○MAEDA, Yuki; NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki**2H2-52** Synthesis of late transition metal complexes using a tridentate ligand including a secondary phosphine oxide moiety (Fac. Sci., Nara Women's Univ.) ○MIYA, Karen; SHIGEHIRO, Yuma; OKA, Sayaka; KATAOKA, Yasutaka; URA, Yasuyuki

Tuesday, March 24, AM

Chair: TAKAHASHI, Kohei (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(3H2-01, 3H2-02, 3H2-03, 3H2-04, 3H2-06)

3H2-01 Catalytic CO₂ Hydrogenation using Iridium Complexes Bearing Amidate-Based Ligands (IECO, AIST) ○KANEGA, Ryoichi; ONISHI, Naoya; HIMEDA, Yuichiro

- 3H2-02** Ligand substitution and incorporation of group 11 metal ions on 1,3-butadiene-1,4-diyl complexes containing an Ir-Ir bond (Grad. Sch. Eng., Kyoto Univ.) ○SASAKURA, Kohei; OKAMOTO, Kazuhiro; OHE, Kouichi
- 3H2-03** Synthesis and Reactivities of Tethered Iridium Complexes with a 1,2-Diphenylethylenediamine Framework (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○YOSHIDA, Minoru; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3H2-04[#]** Control of selectivity for CO₂ photoreduction using iridium or osmium complexes bearing PNNP-type tetradentate ligand (Grad. Sch. Sci., Nagoya Univ.) ○KAMADA, Kenji; JUNG, Jieun; SAITO, Susumu
- 3H2-06** Umpolung of B-H Bonds by Metal-Ligand Cooperation (Grad. Sch. Eng., The Univ. of Tokyo) ○HIGASHI, Takuya; KUSUMOTO, Shuhei; NOZAKI, Kyoto

Chair: KAYAKI, Yoshihito (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3H2-08, 3H2-09, 3H2-10, 3H2-11, 3H2-13)
- 3H2-08** Unique Reactivity of an Iridium Complex Bearing a Diarylphosphino-PCP Pincer-type Alkoxy-carbene Ligand with Alkenes (Sch. Sci., Tokyo Tech.) ○ISHIKAWA, Taishi; TAKAHASHI, Kohei; IWASAWA, Nobuharu
- 3H2-09[#]** Ir/B Hybrid asymmetric catalysis for stereodivergent construction of α -quaternary- β -tertiary carboxylic acids (Grad. Sch. Pharm., The Univ. of Tokyo) ○CHEN, Hongyu; YAMAGUCHI, Shigeru; MORITA, Yuya; NISHIOKA, Yuki; ZHAI, Xiangning; SHIMIZU, Yohei; MITSUNUMA, Harunobu; KANAI, Motomu
- 3H2-10** Ir-Catalyzed *N*-Monoalkylation of Unprotected Amino Acids in water (Fac. Life Med. Sci., Doshisha Univ.) ○NAKAMURA, Yushi; TANAKA, Yui; OE, Yohei; OHTA, Tetsuo
- 3H2-11[#]** Ir-catalyzed Syntheses of Donor-Acceptor π -Conjugated Enamines and Their Photoluminescence Properties (IMCE, Kyushu Univ.) ○TAHARA, Atsushi; KITAHARA, Ikumi; SAKATA, Daichi; KUNINOBU, Yoichiro; NAGASHIMA, Hideo

Co

- 3H2-13** Intramolecular C-H Bond Activation and Functionalization by Terphenyl Diamide Complexes of Cobalt (Grad. Sch. Sci., Osaka Univ.) ○KOBAYASHI, Suiho; YAMADA, Yuka; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- Chair: TAHARA, Atsushi (11 : 20~12 : 20)
- * 11:10-11:20: interval for laptop PC connection.(3H2-15, 3H2-17, 3H2-19, 3H2-20)
- 3H2-15[#]** Hydrogenative Dehalogenation of Aryl Halides Mediated by a Metal-Ligand Cooperation of PNNP-Co Complexes (IRC3, AIST) ○JHENG, Nai-yuan; ISHIZAKA, Yusuke; NAGANAWA, Yuki; NAKAJIMA, Yumiko
- 3H2-17[#]** Bridging the Gap Between Homogeneous and Heterogeneous Catalysis (Dep. of Chem., Univ. of Oslo) ○VANICEK, Stefan; SARKAR, Biprajit; BILDSTEIN, Benno; TILSET, Mats
- 3H2-19** Hydrosilylation of Aldehydes and Ketones and Mechanistic Study Using Co(II) Complexes Bearing Tridentate Phenoxyimine Ligand. (Fac. Sci., Fukuoka Univ.) HORI, Momoko; ○MITSUYAMA, Tomoaki; KOGA, Yuji; MATSUBARA, Kouki
- 3H2-20** Homoleptic Bis(phenoxyimine) Cobalt(II) Complex as a Catalyst for Catalytic Hydrophosphination of Styrene Derivatives (Fac. Sci., Fukuoka Univ.) ○HORI, Momoko; MITSUYAMA, Tomoaki; KOGA, Yuji; MATSUBARA, Kouki

Tuesday, March 24, PM

Mn, Re

Chair: OOHASHI, Masato (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3H2-28, 3H2-29, 3H2-31, 3H2-32)
- 3H2-28** Synthesis and Reactions of Polyhydridorhenium Complexes Having a Xanthene-Based Bis(silyl) Chelate Ligand (Grad. Sch. Sci., Tohoku Univ.) ○HIGASHI, Hironori; KOMURO, Takashi; TOBITA, Hiromi
- 3H2-29[#]** Catalytic Nitrogen Fixation Using Rhenium-Dinitrogen Complexes Bearing PNP Pincer Ligands (Grad. Sch. Eng., The Univ. of Tokyo) ○MENG, Fanqiang; KURIYAMA, Shogo; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 3H2-31[#]** Synthesis and Reactivity of Manganese Complexes Bearing Anionic Pincer Ligands toward Nitrogen Fixation (Grad. Sch. Eng., The Univ. of Tokyo) ○WEI, Shenglan; KURIYAMA, Shogo; NAKAJIMA, Kazunari; NISHIBAYASHI, Yoshiaki
- 3H2-32[#]** Manganese-catalyzed oxidative conversion of ammonia into dinitrogen (Grad. Sch. Eng., The Univ. of Tokyo) ○TODA, Hiroki; NAKAJIMA, Kazunari; SAKATA, Ken; NISHIBAYASHI, Yoshiaki

Chair: MUTOH, Yuichiro (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3H2-35, 3H2-36, 3H2-37, 3H2-38, 3H2-39, 3H2-40)
- 3H2-35** Preparation and Structure of Three-Coordinated Mn(0) Complex and

Its Application to Catalytic Precursors for Molecular Transformations (Grad. Sch. Eng., Osaka Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○YASUI, Nozomi; MICHIGAMI, Kenichi; UEDA, Mitsuhiro; OGOSHI, Sensuke; OHASHI, Masato

- 3H2-36** Alkene Epoxidation by Electrolytic Oxidation of Carbonate Ions (Fac. Sci. Eng., Doshisha Univ.; Innovation Park, Daicel Corporation) ○AMANAI, Keisuke; KITAYAMA, Kenji; KODERA, Masahito; HITOMI, Yutaka

Ni, Pd, Pt

- 3H2-37** Nickel(II) Complexes Bearing Bulky NHC Ligands for Cross Coupling of Unactivated Aryl Chlorides (Fac. Sci., Fukuoka Univ.) ○HOSOKAWA, Rion; KOGA, Yuji; MATSUBARA, Kouki
- 3H2-38** C-F Bond Cleavage of Difluoromethylarenes Using Ni(0)/NHC Complexes (Sch. Eng., Osaka Univ.) ○AKATSUKA, Chiharu; IMIYA, Hiroto; IWAMOTO, Hiroaki; OGOSHI, Sensuke
- 3H2-39** Investigation of Photo-reactivity of Nickelalactone Bearing an *N*-phosphinomethyl-substituted NHC Ligand (Sch. Sci., Tokyo Tech.) ○IWAI, Asaki; TAKAHASHI, Kohei; IWASAWA, Nobuharu
- 3H2-40** Synthesis of Mixed-Metal Pd/Pt Tetranuclear Complexes Supported by Tetraphosphine Ligands (Fac. Sci., Nara Women's Univ.) ○MORITA, Yuka; FUJISAWA, Yoshimi; NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki

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

- * 15:40-15:50: interval for laptop PC connection.(3H2-42, 3H2-43, 3H2-44, 3H2-45, 3H2-46)
- 3H2-42** Synthesis of planar Pd clusters having bridging silylene ligand and their application to catalytic hydrogenation of alkenes (IIS, The Univ. of Tokyo) ○YANAGISAWA, Chikako; SUNADA, Yusuke
- 3H2-43** Synthesis of group 10 transition metal clusters by using oligosilane bearing nitrogen and phosphorus moieties (IIS, The Univ. of Tokyo) ○USUI, Ryosuke; SUNADA, Yusuke
- 3H2-44** Synthesis of Pd₁₃ cluster ligated by [2.2]paracyclophane (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○HATANO, Ayaka; YAMAMOTO, Koji; MURAHASHI, Tetsuro
- 3H2-45** Synthesis of a palladium complex bound to a phosphorus ligand with bulky 2,6-diarylyphenyl group (Fac. Sci., TUS) ○TOKUOKA, Shingo; SHIMOMURA, Ryota; MUTOH, Yuichiro; SAITO, Shinichi
- 3H2-46[#]** Catalytic Performance Prediction of Ethylene/Methyl Acrylate Copolymerization Using Palladium/Phosphine-Sulfonate by Machine Learning (Grad. Sch. Eng., The Univ. of Tokyo; UoFU) ○AKITA, Shumpei; GUO, Jing-yao; SIGMAN, Matthew S.; NOZAKI, Kyoto

Chair: YAMAMOTO, Koji (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(3H2-49, 3H2-50, 3H2-52)
- 3H2-49** Synthesis and optical properties of axially chiral dinuclear platinum complexes bearing 3,3'-disubstituted-2,2'-bipyridine ligands (Grad. Sch. Eng., Kyoto Univ.) ○SUEZAKI, Masahiro; SASAKURA, Kohei; OKAMOTO, Kazuhiro; MIKI, Koji; OHE, Kouichi
- 3H2-50[#]** Organometallic reactivity of heterobimetallic Pt/Cu complexes: bimetallic activation and the role of unsymmetrical ligand scaffolds (OIST) ○DEOLKA, Shubham; KHUSNUTDINOVA, Julia

Cu, Au

- 3H2-52** Synthesis and reactivity of macrocyclic tetragold(I) complex with bisphosphine ligand. (Lab. Chem. Life Sci., Tokyo Tech.) ○ABE, Ryota; TSUCHIDO, Yoshitaka; OSAKADA, Kohtarō

Chair: OKAMOTO, Kazuhiro (17 : 50~18 : 30)

- * 17:40-17:50: interval for laptop PC connection.(3H2-54, 3H2-55, 3H2-56, 3H2-57)
- 3H2-54** Synthesis of Six-Membered Cycle Urethanes in Catalytic Carboxylate Cyclization of Aminoalkynes Using NHC-Au(I) Complexes (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUGIYAMA, Takeru; KUWATA, Shigeki; KAYAKI, Yoshihito
- 3H2-55** Insertion of Alkynes to the Diarylboryl-gold Complex and Subsequent Isomerization (Sch. Eng., Nagoya Univ.) ○SUZUKI, Akane; YAMASHITA, Makoto
- 3H2-56** Development of copper(I)-catalyzed asymmetric borylation of aliphatic ketimines (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○MIURA, Daiyo; TAKEUCHI, Takumi; OSAKI, Shun; KUBOTA, Koji; ITO, Hajime
- 3H2-57** Asymmetric borylation of ethylmethylketone enabled by rational ligand design using computational chemistry (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○TAKEUCHI, Takumi; KUBOTA, Koji; ITO, Hajime

Wednesday, March 25, AM

Ti, Zr, Li

Chair: SHIMA, Takanori (9 : 00 ~ 10 : 00)

* 8:50-9:00: interval for laptop PC connection.(4H2-01, 4H2-02, 4H2-03, 4H2-04, 4H2-05, 4H2-06)

4H2-01[#] Hydroaminoalkylation of Alkenes Catalyzed by Alkyltitanium Complexes (Sch. Eng. Sci., Osaka Univ.) ○INOUE, Mariko; MIZUKAMI, Mai; TSURUGI, Hayato; MASHIMA, Kazushi**4H2-02** Reaction of Boron- and Nitrogen-Substituted Acetylenes with Titanocene Derivatives (Grad. Sch. Eng., Nagoya Univ.) ○KOBAYASHI, Akemi; SUZUKI, Katsunori; YAMASHITA, Makoto**4H2-03** Synthesis and Reactivity of a Titanium Methylene Species Generated by Transmetalation of a Dinuclear Zinc Methylene Complex to Titanium(III) (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○MORITANI, Shunsuke; KUROGI, Takashi; TAKAI, Kazuhiko**4H2-04** Isospecific polymerization of vinylcyclohexane using an [OSSO]-type zirconium complex as a pre-catalyst (Grad. Sch. Sci., Eng., Saitama Univ.) ○UEDA, Nagisa; NAKATA, Norio; ISHII, Akihiko**4H2-05** Oligomerization of 1-decene using Group 4 metal complexes with aryl-substituted [OSSO]-type ligands (Grad. Sch. Sci., Eng., Saitama Univ.) ○NAGAOKA, Shotaro; NAKATA, Norio; ISHII, Akihiko**4H2-06** Development of Stimuli-Responsive Li-BINOLate Catalyst based on aggregation changes (Grad. Sch. Eng., TUS) ○NOJIRO, Yuta; OHASHI, Satoshi; IMAHORI, Tatsushi

Ta, Ag, Au, Ni

Chair: KUROGI, Takashi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H2-08, 4H2-09, 4H2-11, 4H2-12, 4H2-13)

4H2-08 Synthesis of Pyridylimido Complexes of Tantalum and Niobium via N=N bond Cleavage of 2,2'-Azopyridine and Their Complexation with Rhodium Species (Grad. Sch. Eng. Sci., Osaka Univ.) ○KAKIUCHI, Yuya; KAWAKITA, Kento; BEAUMIER, Evan; AKIYAMA, Takuya; TONKS, Ian; TSURUGI, Hayato; MASHIMA, Kazushi**4H2-09[#]** PEG-terminated gold(I)-alkane thiolate coordination polymer : factors affecting luminescence properties (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MURAKAMI, Midori; SHICHIBU, Yukatsu; KONISHI, Katsuaki**4H2-11** Synthesis and properties of silver clusters coated with PEG-modified thiolates (Grad. Sch. Env. Sci., Hokkaido Univ.) ○ABE, Kohei; MURAKAMI, Midori; SHICHIBU, Yukatsu; KONISHI, Katsuaki**4H2-12** Ligand modification of tiara-shaped metal-thiolate macrocyclic hosts and their characterization (Grad. Sch. Env. Sci., Hokkaido Univ.) ○SHIMADA, Shogo; SHICHIBU, Yukatsu; KONISHI, Katsuaki

B, Al

4H2-13 Synthesis, reactions, and properties of hexahydro-9b-boraphenylene (Fac. Sci., Shizuoka Univ.) ○OZAKI, Satoshi; YAMAZAKI, Seiya; OKA, Shohei; SUGINO, Takumi; SAKAMOTO, Kenkichi

Chair: SAKAMOTO, Kenkichi (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4H2-15, 4H2-17, 4H2-19, 4H2-20)

4H2-15[#] A novel rigid bidentate B/P ligand: Formation of a formally Ir(III) η^6 -benzene complex (Grad. Sch. Eng., The Univ. of Tokyo) ○SEIDEL, Falk William; NOZAKI, Kyoko**4H2-17[#]** Mechanistic Study of the Recognition of the Aromatic Substrates Induced by Weak Intermolecular Interaction within Lewis Acid Catalyst (Grad. Sch. Eng., Osaka Univ.) ○TANAKA, Daiki; KONISHI, Akihito; YASUDA, Makoto**4H2-19** Synthesis of Monomeric Cage-Shaped Aluminum Complex and Application as a Lewis Acid Catalyst to Stereoselective S_N2 Glycosylation (Grad. Sch. Eng., Osaka Univ.) KONISHI, Akihito; ○SASAYA, Shota; TANAKA, Daiki; KADONAGA, Yuichiro; MANABE, Yoshiyuki; FUKASE, Koichi; YANAGIHARA, Mayu; YASUDA, Makoto**4H2-20[#]** Synthesis and Catalytic Activity of Dicationic Mononuclear Aluminum Complexes (Grad. Sch. Eng., Osaka Univ.) ○NAKAO, Shuichi; NISHIMOTO, Yoshihiro; YASUDA, Makoto

Room H3

Lecture Hall Bldg. K604

Analytical Chemistry

Sunday, March 22, PM

Microanalysis

Chair: NISHIMOTO, Yuko (13 : 10~14 : 20)

* 13:00-13:10: interval for laptop PC connection.(1H3-26, 1H3-27, 1H3-29, 1H3-30, 1H3-31, 1H3-32)

1H3-26[#] Optical monitoring of Protein Adsorption to Gas-Liquid Interfaces (IMRAM, Tohoku Univ.) HIBARA, Akihide; FUKUYAMA, Mao; ○LI, Xiaoying**1H3-27[#]** Size dependent viscosity change of single levitated aerosol droplet studied by laser trapping microspectroscopy (Fac. Sci., Hokkaido Univ.; The Toyota Physical and Chemical Research Institute) ABE, Sayaka; ○MIURA, Atsushi; FUJII, Sho; KITAMURA, Noboru; UENO, Kosei**1H3-29** Investigation of enrichment/separation behavior of peptides and proteins in micro droplet during spontaneous emulsification (IMRAM, Tohoku Univ.) ○SUTOU, Makoto; FUKUYAMA, Mao; HIBARA, Akihide**1H3-30** Establishment of ultrasensitive ELISA utilizing thin-layer reaction space (Grad. Sch. Eng., The Univ. of Tokyo) ○SEKIYA, Keisuke; OHTA, Ryoichi; MORI, Emi; NAKAO, Tatsuhiro; MAWATARI, Kazuma; KITAMORI, Takehiko**1H3-31** Development of fL chromatography toward single cell analysis (Grad. Sch. Eng., The Univ. of Tokyo) ○MURATA, Shin-ichi; MORIKAWA, Kyojiro; KAZOE, Yutaka; MAWATARI, Kazuma; KITAMORI, Takehiko**1H3-32** Control of Nano-bubble and Realization of Nano-valve (Grad. Sch. Eng., The Univ. of Tokyo) ○FURUKAWA, Shun; KITAMORI, Takehiko; MAWATARI, Kazuma

Food and Medical Analysis

Chair: MAWATARI, Kazuma (14 : 30~15 : 30)

* 14:20-14:30: interval for laptop PC connection.(1H3-34, 1H3-35, 1H3-37, 1H3-39)

1H3-34 Study on analyses of amylose/amylopectin ratio and molecular structural change in gelatinized and retrograded starch by IR Spectroscopy (Grad. Sch. Nat. Sci., Nagoya City Univ.) ○IKEDA, Takanari; KATAYAMA, Norihisa**1H3-35^{*}** Highly Sensitive Fluoro-Immunosensing for Biomarker Detection Using an Automatic Pipette Tip-Type Biosensing System (Grad. Sch. Eng., Kobe Univ.) ○TAKANO, Eri; SHIMURA, Nobuaki; UJIMA, Yoshihisa; TAKEUCHI, Toshifumi**1H3-37[#]** Molecularly imprinted polymer nanogels sensor capable of porcine serum albumin detection for Halal food control (Grad. Sch. Eng., Kobe Univ.) ○CHEUBONG, Chehasan; HAYAKAWA, Natsuki; TAKAI, Minako; MIZUKAWA, Yuki; YOSHIDA, Aoi; KITAYAMA, Yukiya; TAKEUCHI, Toshifumi**1H3-39** pH effect of reactive oxygen and bactericidal activity of Hypochlorous acid solution (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○SUGIHARA, Toshio; MINENO, Masaki; NISHIMOTO, Yuko

Bioanalysis

Chair: OTSUKA, Yoichi (15 : 40~16 : 30)

* 15:30-15:40: interval for laptop PC connection.(1H3-41, 1H3-43, 1H3-44, 1H3-45)

1H3-41[#] Ultrasensitive protein analysis via single-molecule fluorescence gel electrophoresis (RIKEN BDR) ○KIM, Sooyeon; TANIGUCHI, Yuichi; KAMARULZAMAN, Latiefa**1H3-43** Highly sensitive detection of microRNA using a Power-Free microfluidic chip (RIKEN; Grad. Sch. Sci. Eng., Tokyo Denki Univ.) ○INOUE, Masaya; KIM, Young-jin; TAKEMASA, Makoto; HOSOKAWA, Kazuo; MAEDA, Mizuo**1H3-44** Creation of an immune learning field with extracellular vesicle-capturing nanowires for induction of immune cell evolution (Sch. Eng., Nagoya Univ.) ○ONO, Miki; YASUI, Takao; NATSUME, Atsushi; SHIMADA, Taisuke; ARIMA, Akihide; AOKI, Kosuke; KITANO, Shotaro; YAMASAKI, Shintaro; BABA, Yoshinobu**1H3-45** Isolation of exosomes in bile and pancreatic juice using the nanoporous glass device (Grad. Sch. Eng., Nagoya Univ.) ○MUTO, Kengo; YUKAWA, Hiroshi; YAMAZAKI, Shuji; ONOSHIMA, Daisuke; ODAKA, Hidefumi; TANAKA, Yasuhito; BABA, Yoshinobu

Chair: YASUI, Takao (16 : 40~17 : 30)

* 16:30-16:40: interval for laptop PC connection.(1H3-47, 1H3-48, 1H3-49,

1H3-51)

- 1H3-47** Development of quantum nano cancer photoimmunotherapy (QPIT) for ultra-early cancer treatment (Grad. Sch. Eng., Nagoya Univ.)
○HATTORI, Ryosuke; YUKAWA, Hiroshi; SATO, Kazuhide; ISOBE, Yoshitaka; ONOSHIMA, Daisuke; KANAYA, Shunichi; BABA, Yoshinobu
- 1H3-48** Temperature sensing stem cell regeneration function with quantum nanosensor (Grad. Sch. Eng., Nagoya Univ.) ○MIYAJI, Kazu; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; FUJIWARA, Masazumi; NISHIMURA, Yushi; BABA, Yoshinobu
- 1H3-49*** Visualization of Multimolecular Crowding Biosystems in Tissue by Scanning Probe Electro Spray Ionization Mass Spectrometry (Grad. Sch. Sci., Osaka Univ.) ○OTSUKA, Yoichi; KAMIHORIUCHI, Bui; TAKEUCHI, Aya; SHIMMA, Shuichi; MIYAWAKI, Hiroshi; KIOKA, Hidetaka; OTANI, Tomohito; SAKATA, Yasushi; MATSUMOTO, Takuya
- 1H3-51** Accelerated Derivatization of Peptide in Tapping-mode Scanning Probe Electro Spray Ionization (t-SPEI) (Grad. Sch. Sci., Osaka Univ.) ○TAKEUCHI, Aya; OTSUKA, Yoichi; KAMIHORIUCHI, Bui; MIYASHITA, Masahiro; MATSUMOTO, Takuya

Monday, March 23, AM

Materials and Environmental

Chair: MIURA, Atsushi (9 : 30 ~ 10 : 40)

- * 9:20-9:30: interval for laptop PC connection.(2H3-04, 2H3-06, 2H3-07, 2H3-09)
- 2H3-04**** Development of non-destructive elemental analysis method by muonic X-ray measurement (J-PARC) ○NINOMIYA, Kazuhiko; KUBO, Kenya; MIYAKE, Yasuhiro; SHINOHARA, Atsushi; SAITO, Tsutomu
- 2H3-06** Non-destructive Quantitative Analysis of Carbon in Steel with Negative Muons (Coll. of Liberal Arts, ICU) KUDO, Takuto; SENTOKU, Sawako; NINOMIYA, Kazuhiko; TAKESHITA, Shoshi; HIGEMOTO, Wataru; SHINOHARA, Atsushi; SHIMOMURA, Koichiro; KAWAMURA, Naritoshi; STRASSER, Patrick; MIYAKE, Yasuhiro; SAITO, Tsutomu; ○KUBO, Kenya
- 2H3-07**** Comparative study on measurement of nano-bubble oxygen (Osaka Pref. Univ.) ○TU, Dang; TAKENAKA, Norimichi
- 2H3-09**** Concentration of trace components using freezing and melting process of eutectics of salt and water -Magnetic field effect- (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○ARAI, Masaru; NISHIMOTO, Yuko

Spectral Analysis

Chair: NISHIMOTO, Yuko (10 : 50~11 : 50)

- * 10:40-10:50: interval for laptop PC connection.(2H3-12, 2H3-14, 2H3-16)
- 2H3-12*** Rapid Detection of Urocanic acid and Metabolites Using Surface Enhanced Raman Scattering of Gold Nanoparticles Co-aggregation in Wet System. (Grad. Sch. Eng., Kyoto Univ.; CiRa, Kyoto Univ.) ○FUKUOKA, Takao; SUZUKI, Motofumi; NAMURA, Kyoko; KUMAR, Samir; KAWAGUCHI, Yoshiya
- 2H3-14*** Highly-sensitive surface-enhanced Raman scattering analyses using quasi-dark plasmon modes (Fac. Sci., Hokkaido Univ.) SHIBATA, Kizuku; FUJII, Sho; SUN, Qian; MIURA, Atsushi; ○UENO, Kosei
- 2H3-16*** Determination of the distribution and the structures of cupric chloro complexes in hydrochloric acid solutions and validation by ab initio calculation (IMRAM, Tohoku Univ.) ○UCHIKOSHI, Masahito; MATSUMOTO, Takatoshi

Monday, March 23, PM

Microanalysis

Chair: MORIKAWA, Kyojiro (13 : 10~14 : 00)

- * 13:00-13:10: interval for laptop PC connection.(2H3-26, 2H3-27, 2H3-28, 2H3-29, 2H3-30)
- 2H3-26** Discriminating drug-resistant bacteria via ionic current measurement of electric field response at single particle level (Grad. Sch. Eng., Nagoya Univ.) ○YOSHIKAWA, Aomi; YASUI, Takao; SHIMADA, Taisuke; ARIMA, Akihide; YAMASAKI, Seiji; NISHINO, Kunihiko; YANAGIDA, Takeshi; NAGASHIMA, Kazuki; KAWAI, Tomoji; BABA, Yoshinobu
- 2H3-27** Development of aerosol collection device for PM2.5 analysis (Grad. Sch. Eng., Nagoya Univ.) ○SATO, Ryosuke; ONOSHIMA, Daisuke; YUKAWA, Hiroshi; NOHARA, Kosuke; MIN, Honkyu; BABA, Yoshinobu
- 2H3-28** Single-molecule Junction Spontaneously Restored by a DNA zipper (Sch. Sci., Tokyo Tech.) ○HARASHIMA, Takanori; NISHINO, Tomoaki
- 2H3-29*** Asymmetric ionic transport through low-aspect-ratio nanopore under electrolyte concentration gradient (Grad. Sch. Sci., Osaka Univ.) ○LEONG, Iat Wai; TSUTSUI, Makusu; TANIGUCHI, Masateru
- 2H3-30** Detection of unmodified particles using solid-state-micropore integrated with Quadrupole-electrode (ISIR, Osaka Univ.) ○HAYASHIDA, Tomoki; TSUTSUI, Makusu; TANIGUCHI, Masateru

Chair: NISHINO, Tomoaki (14 : 10~15 : 00)

- * 14:00-14:10: interval for laptop PC connection.(2H3-32, 2H3-33, 2H3-34, 2H3-35)

- 2H3-32** Fabrication of Electrode Integrated Nanofluidic Device and its Application (Grad. Sch. Eng., The Univ. of Tokyo) ○MORIKAWA, Kyojiro; TAKEUCHI, Tomoaki; KITAMORI, Takehiko
- 2H3-33** Academic and technical systematization of phase-separation multiphase flow; creation of the multiphase flow with PEG/phosphate system as aqueous two-phase solution (Fac. Sci. Eng., Doshisha Univ.) ○NISHIMURA, Kazushi; MATSUSHITA, Chihiro; TSUKAGOSHI, Kazuhiko
- 2H3-34** Skin-on-a-chip for evaluation of anti-inflammatory drugs (2): application to trichothecenes (Grad. Sch. Sci. Eng., Toyo Univ.) ○SUGIMOTO, Marika; TAKAHASHI-ANDO, Naoko; SASAKI, Naoki
- 2H3-35*** Development of the Simple and Rapid Measurement Micro Device for Progesterone Using the Paper Substrate. (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○KOMATSU, Takeshi; MAEKI, Masatoshi; ISHIDA, Akihiko; TANI, Hirofumi; TOKESHI, Manabu

Tuesday, March 24, AM

Sensors

Chair: TOYOTA, Taro (9 : 30 ~ 10 : 30)

- * 9:20-9:30: interval for laptop PC connection.(3H3-04, 3H3-05, 3H3-06, 3H3-08, 3H3-09)
- 3H3-04** Microfluidic Paper-Based Analytical Devices Relying on a QR Code Array Readout (Fac. Sci. Tech., Keio Univ.) ○KATOH, Aya; MAEJIMA, Kento; HIRUTA, Yuki; CITTERIO, Daniel
- 3H3-05*** Cellophane-Based Analytical Devices for Colorimetric Analysis of Multiple Urine Components (Grad. Sch. Sci. Tech., Keio Univ.) ○SHIGEMORI, Hiroki; MAEJIMA, Kento; SHIBATA, Hiroyuki; HIRUTA, Yuki; CITTERIO, Daniel
- 3H3-06**** A semi-quantitative, biochemical dipstick assay relying on QR code readout (Fac. Sci. Tech., Keio Univ.) ○MAEJIMA, Kento; KATOH, Aya; HIRUTA, Yuki; CITTERIO, Daniel
- 3H3-08** Electrochemical measurement of anti-glaucoma drugs using boron-doped diamond electrodes (Fac. Sci. Tech., Keio Univ.) ○YONEDA, Mao; HANAWA, Ai; ASAI, Kai; YAMAGISHI, Reiko; HONJO, Megumi; AIHARA, Makoto; EINAGA, Yasuaki
- 3H3-09** Evaluation of basic properties of alkaline stable reversed phase packing material based on calcium carbonate (Fac. Sci. Tech., Keio Univ.) ○KAIZU, Kogi; MOCHIDA, Mai; CITTERIO, Daniel; IMAI, Hiroaki; HIRUTA, Yuki

Chair: KUBO, Yuji (10 : 40~11 : 10)

- * 10:30-10:40: interval for laptop PC connection.(3H3-11)
- 3H3-11*** CSJ Award for Young Chemists Design of Supramolecular Sensors and Their Applications to Optical Chips and Organic Devices (IIS, The Univ. of Tokyo) ○MINAMI, Tsuyoshi
- Chair: HIRUTA, Yuki (11 : 20~12 : 00)
- * 11:10-11:20: interval for laptop PC connection.(3H3-15, 3H3-17, 3H3-18)
- 3H3-15**** Viscoelastic Measurement of Electric Double Layer Using Quartz Crystal Microbalance (OIST) FUNARI, Riccardo; ○MATSUMOTO, Atsushi; DE BRUYN, John; SHEN, Amy
- 3H3-17** Color fading mechanism of dithizone nanofiber membrane in dark (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○OKADA, Masaki; SHINOHARA, Hideki; SUGIMOTO, Toshikazu; TAKAHASHI, Yukiko
- 3H3-18*** A 96-well Plate Made of Paper: Colorimetric Chemosensor Array for Saccharides (IIS, The Univ. of Tokyo) ○LYU, Xiaojun; HAMEDPOUR, Vahid; MINAMI, Tsuyoshi

Tuesday, March 24, PM

Spectral Analysis

Chair: TAKAHASHI, Yukiko (13 : 10~13 : 50)

- * 13:00-13:10: interval for laptop PC connection.(3H3-26, 3H3-28)
- 3H3-26*** Development of electrochemical far-ultraviolet spectroscopy -electronic excitation spectroscopy of ionic liquids on electrodes- (Sch. Eng. Sci., Osaka Univ.) ○TANABE, Ichiro; IMAI, Masaya; IMOTO, Iroha; FUKUI, Ken-ichi
- 3H3-28**** Development of chemometric analysis for forensic body fluid samples using vibrational spectroscopy (Grad. Sch. Sci., The Univ. of Tokyo) ○TAKAMURA, Ayari; OZAWA, Takeaki

Bioanalysis

Chair: NISHIZAWA, Seiichi (14 : 00~15 : 00)

- * 13:50-14:00: interval for laptop PC connection.(3H3-31, 3H3-33, 3H3-35, 3H3-36)
- 3H3-31**** Development of a Method for Visualizing and Quantifying of Endogenous RNAs by Bioluminescent Probes (Grad. Sch. Sci., The Univ. of Tokyo) ○EGUCHI, Masatoshi; YOSHIMURA, Hideaki; OZAWA, Takeaki
- 3H3-33**** Analysis of molecular motility and assembly in living cells based on single molecule imaging to understand mechanisms of cellular functions (Fac.

- Sci., The Univ. of Tokyo) ○YOSHIMURA, Hideaki; OZAWA, Takeaki
3H3-35 Highly sensitive multicolor fluorescence imaging of breast cancer cells using a plasmonic chip with a hole array structure (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YOSHIDA, Makiko; CHIDA, Hinako; KIMURA, Fukiko; YAMAMURA, Shohei; TAWA, Keiko
3H3-36[#] Emission of Bovine Serum Albumin-derived Au₂₅ Nanoclusters in the Presence of Alkali Metals Ions (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○HIDAYAT, Achmad Syarif; RZEZNICKA, Izabela

Chair: TAWA, Keiko (15 : 10~16 : 10)

- * 15:00-15:10: interval for laptop PC connection.(3H3-38, 3H3-40, 3H3-42)
3H3-38* Discrimination of water-soluble polymers based on molecular recognition of peptides (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SUZUKI, Seigo; SAWADA, Toshiaki; SERIZAWA, Takeshi
3H3-40* Influence of ethyl caproate on size for liposomes and yeast (Hirosaki, AITC) ○YODA, Tsuyoshi; OGURA, Akira; SAITO, Tomoaki
3H3-42[#] Biodistribution of endogenous and exogenous CO in *in vivo* measured by a supramolecular heme protein model compound (Grad. Sch. Eng., Doshisha Univ.) ○MAO, Qiyue; KITAGISHI, Hiroaki

Room H4

Lecture Hall Bldg. K605

Organic Chemistry -Reaction and Synthesis- Heterocyclic Compounds

Sunday, March 22, AM

Chair: KUNINOBU, Yoichiro (10 : 00~11 : 00)

- * 9:50-10:00: interval for laptop PC connection.(1H4-07, 1H4-08, 1H4-09, 1H4-10, 1H4-11, 1H4-12)
1H4-07 Facile Synthesis of Multisubstituted *N*-Arylphenylalanines by Transformations of Aryne Intermediates and Cross-coupling Reactions (IBB, Tokyo Med. and Dental Univ.) ○KOBAYASHI, Tsuneyuki; HOSOYA, Takamitsu; YOSHIDA, Suguru
1H4-08 Sequential Conjugation Method Based on the Reactivity of 2-Azidoacrylic Acid Derivatives (IBB, Tokyo Med. and Dental Univ.) ○TAKEMURA, Hinano; GOTO, Sayuri; HOSOYA, Takamitsu; YOSHIDA, Suguru
1H4-09 Protection of Various Azides by Phosphazide Formation (IBB, Tokyo Med. and Dental Univ.) ○AIMI, Takahiro; MEGURO, Tomohiro; HOSOYA, Takamitsu; YOSHIDA, Suguru
1H4-10 Base recognition ability of 2-aminoquinoline derivatives introduced into triplex-forming oligonucleotides (Sch. Life Sci. Tech., Tokyo Tech.) ○AKASE, Yuki; OHKUBO, Akihiro
1H4-11 A Novel Catalytic Synthesis of 2-Aroylbenzothiazoles from 2-Aminobenzenethiols and 1,3-Diarylpropanetriones via Cleavage of a C-C Bond (Grad. Sch. Eng., Kyoto Univ.) ○IWAKAMI, Mako; KIMURA, Yu; KONDO, Teruyuki
1H4-12[#] Post-polymerization Modification for Helically Chiral Polymer Ligands bearing Pyridine-based Coordination Sites (Grad. Sch. Eng., Kyoto Univ.) ○OGITA, Takuya; YAMAMOTO, Takeshi; SUGINOME, Michinori

Chair: SUMIDA, Yuto (11 : 10~12 : 10)

- * 11:00-11:10: interval for laptop PC connection.(1H4-14, 1H4-15, 1H4-16, 1H4-17, 1H4-19)
1H4-14 Borane-catalyzed Synthesis of Six-membered Silacycles by Double Sila-Friedel-Crafts Reaction (MCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○SAKAI, Masahiko; DONG, Yafang; FUJI, Kazuto; SEKINE, Kohei; KUNINOBU, Yoichiro
1H4-15[#] Synthesis of Silepins from Terphenyls and Dihydrosilanes via Double Sila-Friedel-Crafts Reaction (MCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○DONG, Yafang; SEKINE, Kohei; KUNINOBU, Yoichiro
1H4-16 Copper(I)-Catalyzed Synthesis of Benzothiophenes via Annulation between 2-Alkynylaryl Iodides and Hexamethyldisilathiane (Fac. Sci. Technol., TUS) ○OMORI, Keita; NAKAJIMA, Takumi; OGIWARA, Yohei; SAKAI, Norio
1H4-17* Short Step Synthesis of Polysubstituted Pyridines Mediated by FeCl₃ (Sch. Env. Sci. Eng., KUT) ARITA, Mao; HORIKAWA, Yurie; HIRAI, Sho; YOKOYAMA, Soichi; ASAHARA, Haruyasu; ○NISHIWAKI, Nagatoshi
1H4-19 Synthesis of Polysubstituted 3-Cyanopyridines (Sch. Env. Sci. Eng., KUT) ○YAMAUCHI, Haruka; YOKOYAMA, Soichi; ASAHARA, Haruyasu; NISHIWAKI, Nagatoshi

Sunday, March 22, PM

Chair: NISHINO, Hiroshi (13 : 20~14 : 20)

- * 13:10-13:20: interval for laptop PC connection.(1H4-27, 1H4-28, 1H4-29, 1H4-30, 1H4-31, 1H4-32)

- 1H4-27** Photocatalytic Synthesis of *N*-acyloxazolidines through Intramolecular Hydroamination (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ISHIZUKA, Hayate; ADACHI, Kanna; ODAGI, Minami; NAGASAWA, Kazuo
1H4-28 The synthesis of long chain alcohol with photoaffinity labeling group (Grad. Sch. Eng., KIT) ○MIZUKAWA, Tomoyasu; TSUBAKI, Kota; SHIMOOKA, Hirokazu; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
1H4-29 Visible-Light-Mediated Synthesis of Tetrahydroquinoline Derivatives via Domino Radical Conjugate Addition-Cyclization Reaction (Kitasato Univ. Pharm.) NAGAO, Shun-ichi; ○ITO, Kennosuke; TOKUNAGA, Ken; MIZUGUCHI, Takaaki; KARAKI, Fumika; HIRAYAMA, Shigetō; HASHIMOTO, Masashi; FUJII, Hideaki
1H4-30 Synthesis of new types of phenanthroline derivatives *via* the Povarov reaction (Sch. Sci. Eng., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○YAMAMOTO, Sachie; KUWABARA, Junpei; KANBARA, Takaki
1H4-31 Synthesis of fluorinated *O*-heteroacenes using intramolecular cyclization reaction catalyzed by fluoride ions (Sch. Mater. & Chem. Tech., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKIGAWA, Natsuki; SEKINO, Katsutoshi; SHIKI, Ryosuke; SHIDA, Naoki; NISHIYAMA, Hiroki; TOMITA, Ikuyoshi; INAGI, Shinsuke
1H4-32 Copper-Catalyzed Defluorinative [3 + 2] Cyclization of Azides with Difluorovinylzinc Reagent : Synthesis of Fluorine-Substituted Triazoles (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○TAKEISHI, Masafumi; FUJITA, Takeshi; ICHIKAWA, Junji

Chair: YAMAZAKI, Shoko (14 : 30~15 : 30)

- * 14:20-14:30: interval for laptop PC connection.(1H4-34, 1H4-35, 1H4-36, 1H4-37, 1H4-38, 1H4-39)
1H4-34 Reaction of 3-(2,2-Diarylviny)pentane-2,4-diones and the Analogs with Mn(OAc)₃. (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○OKA, Sosuke; NISHINO, Hiroshi
1H4-35 Synthesis of Dioxo[4.4.3]propellanes Using Mn(III)-Based Oxidative Cyclization (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○SHIBUYA, Keisuke; NISHINO, Hiroshi
1H4-36 Construction of 2,6,9-triazabicyclic framework by self-condensation of β-formyl-β-nitroamine (Sch. Env. Sci. Eng., KUT) ○YOSHIDA, Yusuke; YOKOYAMA, Sochi; NISHIWAKI, Nagatoshi
1H4-37 Development of Rapid Access for Integrastatin Core (Fac. Sci. Eng., Kindai Univ.) ○HARUNA, Nozomi; KAWAKAMI, Hideki; MATSUMOTO, Kouichi; YAMAGIWA, Yoshio
1H4-38 Asymmetric total synthesis of (–)-dehydro-exo-brevicomin featuring photoisomerization-cyclization sequence (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○HIRASAWA, Shun; MASUDA, Tsuyoshi; MUKAI, Ken; MIYOSHI, Yusuke; KANOMATA, Nobuhiro
1H4-39 Synthesis of Pyrrole Derivatives by Cyclization Reaction of alkenyl copper Species (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○TAKEDA, Yuka; TANINO, Keiji

Chair: ITOH, Kennosuke (15 : 40~16 : 40)

- * 15:30-15:40: interval for laptop PC connection.(1H4-41, 1H4-43, 1H4-45, 1H4-46)
1H4-41* Facile Synthesis of *N*-Aryl Heterocyclic Compounds by Smiles Rearrangement and Subsequent Cyclization (IBB, Tokyo Med. and Dental Univ.) ○MATSUZAWA, Tsubasa; HOSOYA, Takamitsu; YOSHIDA, Suguru
1H4-43* Facile Synthesis of Diverse Heterocyclic Compounds by Au-Catalyzed Cyclization and Transformations of Heterocyclic-type Arynes (IBB, Tokyo Med. and Dental Univ.) ○NAKAMURA, Yu; HOSOYA, Takamitsu; YOSHIDA, Suguru
1H4-45 Intramolecular Cyclization Reactions of Styrene-functionalized Amides of Ethenetrioxycarbonate (Nara Univ. of Educ.; Grad. Sch. Eng., Osaka Pref. Univ.) YAMAZAKI, Shoko; ○IWATA, Kentaro; KATAYAMA, Khotaro; WANG, Zhichao; SUGIURA, Hirotaka; OGAWA, Akiya
1H4-46 Synthesis of pyridazine derivatives by the [4+2] cycloaddition of 1,2,3-triazine derivatives and 1-aminoalkynes (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○KODAMA, Takayuki; MATSUZAWA, Asuka; SASAKI, Ikuo; SUGIMURA, Hideyuki

Monday, March 23, AM

Chair: YOSHIDA, Yasushi (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 Synthesis of Fluorine-Substituted Thiophene Derivatives via Selective Carbon-Fluorine Bond Activation of CF₃ Groups (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) ○FUSHIHARA, Tatsuki; FUCHIBE, Kouhei; ICHIKAWA, Junji
2H4-02 Synthesis of highly symmetric [10][10]parapyrazinophane (Sch. Advanced Sci. Eng., Waseda Univ.) ○SATO, Yuji; MIYASHITA, Yusuke; KANOMATA, Nobuhiro
2H4-03 Optical resolution of planar-chiral pyrazinophane and the kinetic study of its racemization (Sch. Advanced Sci. Eng., Waseda Univ.) ○ONO, Yuki; MIYASHITA, Yusuke; KAKIMUMA, Masaki; KANOMATA, Nobuhiro

- 2H4-04** Stereocontrol of planar-chiral bridged isonicotinamide and its application to catalytic asymmetric cyclopropanation (Sch. Advanced Sci. Eng., Waseda Univ.) ○ONO, Ryutarō; TAGO, Yuichiro; MIYASHITA, Yusuke; KANOMATA, Nobuhiro
- 2H4-05** Chiral Bifunctional Sulfide-Catalyzed Asymmetric Bromoaminocyclizations (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○NAKAMURA, Takumi; OKUNO, Ken; SHIRAKAWA, Seiji
- 2H4-06[#]** Chiral Vanadium Complex-catalyzed Enantioselective Oxidative Coupling of 4-Hydroxycarbazoles (ISIR, Osaka Univ.) ○PARK, Hanseok; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki

Chair: KANOMATA, Nobuhiro (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H4-08, 2H4-10, 2H4-11, 2H4-12, 2H4-13)
- 2H4-08[#]** Exploration of flow reaction conditions using machine-learning for enantioselective organocatalyzed Rauhut-Currier/[3+2] annulation sequence (ISIR, Osaka Univ.) ○H. D., Piyumi Wathsala; KONDO, Masaru; SAKO, Makoto; HANATANI, Yutaro; ISHIKAWA, Kazunori; HARA, Satoshi; TAKAAI, Takayuki; TAKASHI, Washio; TAKIZAWA, Shinobu; SASAI, Hiroaki
- 2H4-10** Synthesis of a New Axially Chiral Bidentate Ligand Based on a Quaterheteroaryl Skeleton and Its Zinc Complex (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○YAMAMICHI, Nobuhiko; KAWATSU, Takahiro; TAKEUCHI, Katsuhiko; MATSUMOTO, Kazuhiro; CHOI, Jun-chul; IRIE, Ryo
- 2H4-11** Chiral Symmetry Breaking of Axially Chiral Nicotinamides (Grad. Sch. Eng., Chiba Univ.) ○BAN, Kazuma; YOSHIDA, Yasushi; KASASHIMA, Yoshio; MINO, Takashi; SAKAMOTO, Masami
- 2H4-12** Total Optical Resolution of Thiohydantoin Derivatives (Grad. Sch. Eng., Chiba Univ.) ○HOSAKA, Momoka; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 2H4-13** Chiral Guanidinium Hypoiodite Catalyzed Asymmetric Spirocyclization of Oxindole (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SUGIMOTO, Kota; KATO, Takanari; HOSHOYA, Keisuke; TAN, Choon-hong; ODAGI, Minami; NAGASAWA, Kazuo

Chair: SASAI, Hiroaki (11 : 20~12 : 10)

- * 11:10-11:20: interval for laptop PC connection.(2H4-15, 2H4-16, 2H4-17, 2H4-18, 2H4-19)
- 2H4-15** Convenient Synthesis of 4-Bromo- γ -carboline Derivatives (Grad. Sch. Life & Environmental Sci., Osaka Pref. Univ.) ○AKITAKE, Masahiro; SONODA, Motohiro; NODA, Shizuki; MIYOSHI, Kohei; TANIMORI, Shinji
- 2H4-16** Tris(pentafluorophenyl)borane-Catalyzed Formal Cyanoalkylation of Indoles with Cyanohydrins (Grad. Sch. Eng., Osaka Univ.) ○URASHIMA, Naruyo; KIYOKAWA, Kensuke; MINAKATA, Satoshi
- 2H4-17** Stereoselective Construction of Fused Indoline Frameworks through Intramolecular Photochemical [2+2] Cycloaddition between Indoles and Allenes (Grad. Sch. Eng., Hokkaido Univ.) ○ARAI, Noriyoshi; OHKUMA, Takeshi
- 2H4-18** Late-Stage Amidation: Structural Diversification of Halogen Bonding Donors (Chiba Inst. of Tech.) HARAGUCHI, Ryouyusuke; ○HAYAKAWA, Shunsuke
- 2H4-19[#]** 2-Iodoimidazolium salt-catalyzed [4+2] cycloaddition reaction of imines and electron-rich olefins (Grad. Sch. Sci., Chiba Univ.) ○SUZUKI, Takumi; KUWANO, Satoru; ARAI, Takayoshi

Monday, March 23, PM

Chair: YOSHIMATSU, Mitsuhiro (14 : 20~15 : 20)

- * 14:10-14:20: interval for laptop PC connection.(2H4-33, 2H4-34, 2H4-35, 2H4-37, 2H4-38)
- 2H4-33** Synthesis of Imidazo[1,2-a]pyridine using Aerobic Oxidative C-N Bond Formation Catalyzed by Flavin-Iodine Catalysis (Fac. Sci. Eng., Shimane Univ.) ○OKAI, Hayaki; OHKADO, Ryoma; TANIMOTO, Kazumasa; IIDA, Hiroki
- 2H4-34** Allylic substitution reaction using mesoionic 1,3-diphenyltetrazolium-5-thiolate as a leaving group (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○SUZUKI, Yuki; HIRASHITA, Tsunehisa
- 2H4-35^{*}** One-pot Synthesis of Unsymmetrical Ketones Using N-Triazinylureas as an Equivalent of Carbonyl Dication (Fac. Sci. Tech., Oita Univ.) ○HIRAO, Shotaro; SAEKI, Rumi; TAKAHASHI, Toru; HARADA, Takunori; NISHIWAKI, Nagatoshi; OHGA, Yasushi
- 2H4-37** Development of novel reaction using vinyl ketene imine iron complex (Grad. Sch. Eng., KIT) ○PARK, Seonggang; TABUCHI, Nagomi; SIMOOKA, Hirokazu; KITAMURA, Mitsuru; OKAUCHI, Tatsuo
- 2H4-38** Development of the way to synthesize tert-O-propargyl oximes via Nicholas reaction (Grad. Sch. Sci., Tohoku Univ.) ○SUZUKI, Mao; SHIGA, Keigo; NAKAMURA, Itaru; TERADA, Masahiro

Chair: IIDA, Hiroki (15 : 30~16 : 30)

- * 15:20-15:30: interval for laptop PC connection.(2H4-40, 2H4-41, 2H4-42, 2H4-43, 2H4-44)
- 2H4-40** Domino 1,4-Addition Reactions of Ketene Silyl Thioacetals to Dialkynyl Imines: Synthesis of Multisubstituted δ -Lactams (Grad. Sch.

- Eng., Mie Univ.) ○SATO, Koki; KOKADO, Shinya; HACHIYA, Iwao
- 2H4-41** Conjugate Addition Reactions of Ketene Silyl Acetals to Alkynyl Alkynyl Imines: Synthesis of β -Lactams (Grad. Sch. Eng., Mie Univ.) ○NAKAZATO, Hiroya; YONEKAWA, Takumi; HACHIYA, Iwao
- 2H4-42** Synthesis of 2,3-Disubstituted 4-Ethoxycarbonyl- β -carbolin-1-ones: Application to Syntheses of SL651498 and Its Analogue (Grad. Sch. Eng., Mie Univ.) ○MIURA, Ryoya; GOTO, Shinsuke; HASHIMOTO, Takahide; HACHIYA, Iwao
- 2H4-43** Synthesis of Tetrasubstituted Furans Utilizing [1,2]-Phospha-Brook Rearrangement (Grad. Sch. Sci., Tohoku Univ.) ○AITA, Kohei; ISHIKAWA, Sho; KONDOH, Azusa; TERADA, Masahiro
- 2H4-44^{*}** Study on Ring Expansion of Alkynylisoxazoles (Fac. Edu., Gifu Univ.) HAYASHI, Kimika; NOHARA, Mei; ○YOSHIMATSU, Mitsuhiro

Chair: HACHIYA, Iwao (16 : 40~17 : 40)

- * 16:30-16:40: interval for laptop PC connection.(2H4-47, 2H4-48, 2H4-49, 2H4-50, 2H4-51, 2H4-52)
- 2H4-47** Carbon-Heteroatom Bond Formation Using Transition Metal Catalyst for Diazo Probe Method (IBB, Tokyo Med. and Dental Univ.) ○SAKATA, Yuki; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2H4-48** Sequential Conjugation Method Based on Azido-type Selective Reactions and Cross-coupling Reactions (IBB, Tokyo Med. and Dental Univ.) ○SUGIYAMA, Kazuya; SAKATA, Yuki; HAZAMA, Yuki; YOSHIDA, Suguru; HOSOYA, Takamitsu
- 2H4-49** Synthesis of unsymmetrical disulfides using riboflavin-catalyzed photooxidative coupling of thiols (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○OKA, Marina; KATSUBE, Daichi; IIDA, Hiroki
- 2H4-50** Gold(I)-Catalyzed Aza-Propargyl Claisen Rearrangement: Synthesis of 5-Allenylisoxazoles (Lab. Chem. Life Sci., Tokyo Tech.) ○TSUDA, Masato; MORITA, Taiki; FUKUHARA, Shintaro; NAKAMURA, Hiroyuki
- 2H4-51** Organic Synthesis Using Sulfur-Substituted 1,6-Diynes: Application to the Trapping Agents of Deuterium Atoms (Grad. Sch. Edu., Gifu Univ.) ○TAKAHASHI, Karin; YOSHIMATSU, Mitsuhiro
- 2H4-52** Synthesis of Isoxazoles Using Propargyl Alcohols and N-Hydroxypyridinesulfonamide (Fac. Edu., Gifu Univ.) ○KATO, Yoshiaki; MISHIMA, Naoya; YOSHIMATSU, Mitsuhiro

Tuesday, March 24, AM

Chair: TOGO, Hideo (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 of cyclophosphoribides and their physical properties (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○DEMISE, Ayaka; KINOSHITA, Yusuke; KASHIYAMA, Yuichirou
- 3H4-02** Synthesis of zinc amino-chlorophyll derivatives and their intramolecular coordination (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○SAKAKIBARA, Sakura; OGASAWARA, Shin
- 3H4-03** Synthesis of bacteriochlorophyll-*d* analogs bearing π -conjugated substituents at the 13² position and their self-aggregation. (Coll. Life Sci., Ritsumeikan Univ.) TAMIAMI, Hitoshi; ○TAKEDA, Toyoho
- 3H4-04** Synthesis of 20-O-substituted azalamellarin N analogues (Grad. Sch. Eng., Nagasaki Univ.) ○MIYAGI, Kazuhito; NAKANO, Haruka; FUKUDA, Tsutomu; ONODERA, Gen; KIMURA, Masanari
- 3H4-05** Molecular Transformation Reaction of C,N-Cyclic Azomethine Imine Utilizing Diazo Compounds (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TAKAHASHI, Ryouyusuke; KIKKAWA, Ryo; SUGA, Takuya; SOETA, Takahiro; UKAJI, Yutaka
- 3H4-06** Development of Asymmetric Hetero Diels-Alder Reaction of Azo Compounds (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○TSUGENO, Hiromasa; SATO, Yu; SUGA, Takuya; SOETA, Takahiro; UKAJI, Yutaka

Chair: UCHIDA, Tatsuya (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(3H4-08, 3H4-09, 3H4-10, 3H4-11, 3H4-12, 3H4-13)
- 3H4-08** Transition-metal-free synthesis of benzocoumarins with o-arylbenzoic acids and NIS (Fac. Sci., Chiba Univ.) ○NAKAMURA, Momoko; TOGO, Hideo
- 3H4-09** Novel Preparation of Oxazoles from Imidates Using DIH (Fac. Sci., Chiba Univ.) ○SAITO, Aya; TOGO, Hideo
- 3H4-10** Synthetic Studies of Indole Derivatives through Introduction of Amide Groups using the Friedel-Crafts Alkylation. (Fac. Sci., Chiba Univ.) ○NAKAMURA, Kohei; TOGO, Hideo
- 3H4-11** Improved synthesis of CDM-3008 under microwave irradiation (BRI, AIST) ○YOKOE, Takayuki; SHIMIZU, Hiroki
- 3H4-12[#]** Synthesis, Computational studies and in vitro Antibacterial and Antioxidant activities of mono and bis-Schiff bases of 2-aminomethyl benzimidazoles (Univ. Sch. of Bas. & App. Sc., GGSIP Univ., New Delhi, India) ○KHANNA, Leena; SINGHAL, Sugandha; KHANNA, Pankaj
- 3H4-13[#]** Amphiprotic Extended Pyrazinacenes Exhibiting Efficient Near-Infrared Fluorescence (Fac. Sci., Ochanomizu Univ.; MANA, NIMS) ○RICHARDS, Gary James; HILL, Jonathan Hill; YAMADA, Shinji; ARIGA, Katsuhiko

Chair: SUGA, Takuya (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(3H4-15, 3H4-16, 3H4-17, 3H4-18, 3H4-19)

3H4-15 Short-step Synthesis of Oxahelicenes by Dehydrogenative Cross-Coupling of Arenols as a Key Reaction (Grad. Sch. Sci. & Tech., Kumamoto Univ.) O GOMASAKO, Keisuke; TAKEHARA, Erina; UEDA, Daiki; ARAE, Sachie; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo**3H4-16** Studies on the Asymmetric Synthesis of Chiral Carbazole-containing Heterohelicenes based on Hydroarylation of Alkynes (Grad. Sch. Sci. & Tech., Kumamoto Univ.) O YAMANE, Riyo; ARAE, Sachie; IGAWA, Kazunobu; TOMOOKA, Katsuhiko; IRIE, Ryo**3H4-17** Short-Step Synthesis of Polyazahelicenes via Consecutive N-H/C-H Coupling from p-Phenylenediamine and Evaluation of Their Photophysical Properties (Sch. Advanced Sci. Eng., Waseda Univ.) O SASAYAMA, Takuma; OTANI, Takashi; KANYIVA, Kyalo Stephen; SHIBATA, Takanori**3H4-18[#]** Electrochemical Synthesis of Heterohelicenes via Oxidative Heterocoupling/Intramolecular Cyclization Sequence (ISIR, Osaka Univ.) O KHALID, Md. Imrul; SAKO, Makoto; TAKIZAWA, Shinobu; SASAI, Hiroaki**3H4-19^{#*}** Phase-Transfer Catalytic Dynamic Kinetic Resolution of Amino Acid Esters with Water and Alcohols as Nucleophiles (Grad. Sch. Sci., Kyushu Univ.) O WAKAFUJI, Kodai; KOBAYASHI, Kaoru; CHO, Hyemin; DOHI, Hirotsugu; KAMACHI, Takashi; YAMAMOTO, Eiji; TOKUNAGA, Makoto

Room H5

Lecture Hall Bldg. K606

Natural Products Chemistry

Sunday, March 22, AM

Chair: FUJIWARA, Kenshu (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(1H5-08, 1H5-09, 1H5-10, 1H5-11, 1H5-12, 1H5-13)

1H5-08 Total Synthesis of Carthamin (Sch. Sci., Tokyo Tech.) O DOHI, Reina; FUJIKI, Yusuke; MATSUOKA, Seiya; AZAMI, Kohei; OHMORI, Ken; SUZUKI, Keisuke**1H5-09** Synthetic study on C-glycosyl quinocalones (Sch. Sci., Tokyo Tech.) O FUJIKI, Yusuke; DOHI, Reina; MATSUOKA, Seiya; AZAMI, Kohei; OHMORI, Ken; SUZUKI, Keisuke**1H5-10** Structure-activity Relationship Study of Amphidinol 3 (Grad. Sch. Sci., Kyushu Univ.) O WAKAMIYA, Yuma; OISHI, Tohru**1H5-11[#]** Synthetic Study of the C30-C63 Section of Karlotoxin 2 (Grad. Sch. Sci., Kyushu Univ.) O UMENO, Keitaro; WAKAMIYA, Yuma; OISHI, Tohru**1H5-12** Synthesis of 7'-Hydroxy-2-methylanzawaic Acid B Amide Derivatives and SAR Studies on the Related Compounds (1) (Fac. Sci., TUS) MURATA, Takatsugu; O TATEYAMA, Satoru; MAEKAWA, Yutarou; YOSHIDA, Takumi; SUZUKI, Kyohi; SHIMONAKA, Motoyuki; SHIINA, Isamu**1H5-13** Synthesis of 7'-Hydroxy-2-methylanzawaic Acid B Amide Derivatives and SAR Studies on the Related Compounds (2) (Fac. Sci., TUS) MURATA, Takatsugu; OHIRAGA, Daiki; TOYOYAMA, Kiyotaka; MAEKAWA, Yutarou; TATEYAMA, Satoru; YONEKURA, Keita; SHIMONAKA, Motoyuki; SHIINA, Isamu

Chair: MURATA, Takatsugu (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(1H5-15, 1H5-16, 1H5-17, 1H5-18, 1H5-19, 1H5-20)

1H5-15 Total Synthesis of Selaginellin A, An Aromatic Natural Product from *Selaginella tamariscina* (Grad. Sch. Eng. Sci., Akita Univ.) FUJIWARA, Kenshu; OITAGAKI, Takaya; KONDO, Yoshihiko; AKIBA, Uichi**1H5-16** Synthetic Study on Lystabactin A (Grad. Sch. Eng. Sci., Akita Univ.) FUJIWARA, Kenshu; O SUDA, Yusuke; SHIMOZAWA, Shogo; KONDO, Yoshihiko; AKIBA, Uichi**1H5-17** Synthetic Study of Pseudocerosine, a Natural Blue Pigment (Grad. Sch. Eng. Sci., Akita Univ.) FUJIWARA, Kenshu; O TAKAGI, Eri; KONDO, Yoshihiko; AKIBA, Uichi**1H5-18** Synthetic Study of the IJKLM Ring of Maitotoxin (Grad. Sch. Sci., Kyushu Univ.) O NAKAMURA, Masashi; ASAKAWA, Momoko; TORIKAI, Kohei; OISHI, Tohru**1H5-19** Synthetic Study of the C'D'E' Ring of Maitotoxin (Grad. Sch. Sci., Kyushu Univ.) O WATANABE, Yuta; TORIKAI, Kohei; OISHI, Tohru**1H5-20** Development of a Convergent Method for Synthesizing Ladder-Shaped Polyethers via Three-Rings Construction (Grad. Sch. Sci., Kyushu Univ.) O FUKAI, Masaki; TORIKAI, Kohei; OISHI, Tohru

Sunday, March 22, PM

Sugar

Chair: TAKAHASHI, Daisuke (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(1H5-28, 1H5-29, 1H5-30, 1H5-31, 1H5-33)

1H5-28 Synthesis Study in Diverse High-mannose-type Glycans Utilizing Dendritic Glycosylation (Fac. Sci. and Technol., Seikei Univ.) O USUI, Lucio; NITTA, Kyohei; KOIZUMI, Akira; KURIBARA, Taiki; TOTANI, Kiichiro**1H5-29** Divergent synthesis of multi-antennary N-glycans (Grad. Sch. Sci., Osaka Univ.) O SHIRAKAWA, Asuka; MANABE, Yoshiyuki; DEMURA, Kenta; MASUI, Seiji; FUKASE, Koichi**1H5-30** Divergent synthesis of N-glycans containing sialic acid (Grad. Sch. Sci., Osaka Univ.) O DEMURA, Kenta; MANABE, Yoshiyuki; SHIRAKAWA, Asuka; MASUI, Seiji; FUKASE, Koichi**1H5-31^{#*}** Development of Substrate-specific Metabolism Monitoring probe for α -glucosidase (Grad. Sch. Pharm., Kyushu Univ.) O KIMURO, Yusuke; DOI, Kazuki; MORITA, Masaki; YORITATE, Makoto; HIRAI, Go**1H5-33** Development of a novel type of α -glucosidase inhibitors based on the substrate structure (Grad. Sch. Pharm., Kyushu Univ.) O DOI, Kazuki; KIMURO, Yusuke; YORITATE, Makoto; HIRAI, Go

Chair: SHIMOYAMA, Atsushi (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1H5-35, 1H5-36, 1H5-38, 1H5-39, 1H5-40)

1H5-35 Synthetic Study on a Natural Glycosphingolipid, Terpioside B (Fac. Sci. Tech., Keio Univ.) O INABA, Kazuki; IIBUCHI, Naoto; ENDO, Masato; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu**1H5-36^{#*}** One-Pot Synthesis of Cyclic Oligosaccharides by the Polyglycosylation of Monothio glycosides (Fac. Pharm. Sci., TUS) O SOMEYA, Hidehisa; SEKI, Takehito; ISHIGAMI, Gota; SAGA, Yutaka; YAMADA, Yasuyuki; AOKI, Shin**1H5-38** Improvement of the synthetic method of cyclic trimer of α -1-4-D-glucopyranoside (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.)

O HAGIMORI, Takara; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi

1H5-39 Synthesis of pNP-TMG via electrochemical glycosylation (Fac. Eng., Tottori Univ.; Grad. Sch. Env. Life Sci., Okayama Univ.) O KUWANA, Haruki; YANO, Kunpei; NOKAMI, Toshiki; NITODA, Teruhiko; KANZAKI, Hiroshi**1H5-40** Total synthesis of Myc-IV(16C:0,S) via automated electrochemical assembly (Grad. Sch. Eng., Tottori Univ.) O YANO, Kunpei; NOKAMI, Toshiki; ITO, Toshiyuki

Chair: YORITATE, Makoto (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(1H5-42, 1H5-43, 1H5-45, 1H5-46, 1H5-47)

1H5-42 Construction of β -glucan via automated electrochemical assembly using disaccharide building blocks (Fac. Eng., Tottori Univ.) O SAITO, Asuka; KATO, Moeko; NOKAMI, Toshiki; ITOH, Toshiyuki**1H5-43^{#*}** New Glycosylation Reaction Using Sulfated Glycosyl Donors and Synthesis of Chondroitin Sulfates (Sch. Sci., Osaka Univ.) O MANBO, Akihiro; NOBUTOH, Hiroki; MAKI, Yuta; OKAMOTO, Ryo; YAMANAKA, Shusuke; OKUMURA, Mitsutaka; KAJIHARA, Yasuhiro**1H5-45** Synthetic study of α (2,8) oligosialic acids containing N-glycolylneuraminic acids. (Sch. Mater. & Chem. Tech., Tokyo Tech.) O TOHDA, Kazuki; TOHDA, Kazuki; KOINUMA, Ryosuke**1H5-46** Synthetic study of α (1,2) branched mannan derivatives with inhibitory action against mycobacterial infection (Sch. Mater. & Chem. Tech., Tokyo Tech.) O YAMADA, Haruka; SUGIYAMA, Hirotsugu; HANAFUSA, Kei; NAKAYAMA, Hitoshi; IWABUCHI, Kazuhisa; TANAKA, Hiroshi**1H5-47** Synthesis study of asymmetrically terminal-bifunctionalized linear oligomethylene from macrocyclic boron compounds (Sch. Mater. & Chem. Tech., Tokyo Tech.) O OUCHI, Keita; SATO, Ko; TANAKA, Hiroshi; TAKEUCHI, Daisuke

Monday, March 23, AM

Chair: WAKAMORI, Shinnosuke (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 Synthetic Studies on Violaceoid B and Derivatives by the Selective Cleavage of Silyl Ether Groups Using Neighboring Group Participation (Fac. Sci., TUS) MURATA, Takatsugu; O TAGUCHI, Shotaro; TAKEUCHI, Kazuma; TANAKA, Daiki; SHIINA, Isamu**2H5-02** Synthetic Studies on Violaceoid A Derivatives (Fac. Sci., TUS) MURATA, Takatsugu; O TSUGAWA, Shou; TAGUCHI, Shotaro; TANAKA, Daiki; YUMURA, Ayumi; SHIMONAKA, Motoyuki; SHIINA, Isamu**2H5-03** Macrolactone Synthesis by Tandem Catalysis (Fac. Sci. Eng., Chuo Univ.) O ODA, Mami; ONODERA, Yu; FUWA, Haruhiko**2H5-04** Total Synthesis of Exiguolide: Tandem Catalysis Approach (Fac. Sci.

Eng., Chuo Univ.) OIIO, Kei; FUWA, Haruhiko

- 2H5-05** An efficient synthesis of 4-hydroxy-1-prenylxanthone derivatives by utilizing aromatic oxy-Cope rearrangement (Sch. Pharm., TUPLS)
 OSUZUKI, Ryotaro; MATSUSHITA, Takafumi; FUJIMOTO, Yuuki; MATSUMOTO, Takashi
- 2H5-06** Synthetic study on lactonamycin: stereoselective construction of the ABCD ring system (Sch. Sci., Tokyo Tech.) OMURATA, Kazuki; NAKAKOHARA, Hiroshi; TAKIKAWA, Hiroshi; SUZUKI, Keisuke

Chair: TAKAMURA, Hiroyoshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H5-08, 2H5-09, 2H5-11, 2H5-12, 2H5-13)
- 2H5-08** Photoredox Reaction of Naphthoquinones via 1,6-Hydrogen Shift (Tokyo Tech.) ANDO, Yoshio; MATURI, Mark Marcello; OHMORI, Ken; SUZUKI, Keisuke
- 2H5-09[#]** Towards β -Naphthocyclinone (Sch. Sci., Tokyo Tech.)
 OMATURI, Mark Marcello; TANAKA, Nozomi; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 2H5-11[#]** Synthetic Study on β -Naphthocyclinone: Stereospecific Photoredox Reaction via 1,6-H Abstraction (Sch. Sci., Tokyo Tech.) OLIU, Chen; MATURI, Mark Marcello; ANDO, Yoshio; OHMORI, Ken; SUZUKI, Keisuke
- 2H5-12** Progress toward Total Synthesis of Enigmazole A: Macrocyclic Ring-Closing Metathesis/Transannular Oxa-Michael Addition Approach (Fac. Sci. Eng., Chuo Univ.) OMASUDA, Taisei; ODA, Mami; FUWA, Haruhiko
- 2H5-13** Synthetic Studies on Enigmazole B (Fac. Sci. Eng., Chuo Univ.)
 OGODA, Yoshihiro; FUWA, Haruhiko

Chair: OHYOSHI, Takayuki (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** Synthetic study on selligueain A and its derivative and evaluation of their sweet-taste activity (Sch. Sci., Tokyo Tech.) OFUJIKURA, Daisuke; TAKEDA, Rikako; OHMORI, Ken; SUZUKI, Keisuke
- 2H5-16** Synthetic study on Abiesanol A (Sch. Sci., Tokyo Tech.)
 OKAWADA, Yusuke; SUZUKI, Keisuke; OHMORI, Ken
- 2H5-17** Synthesis of Spiroaminals via Intramolecular Hydrofunctionalization of Internal Alkynes (Fac. Sci. Eng., Chuo Univ.) ONISHIMURA, Kazuma; FUWA, Haruhiko
- 2H5-18** Progress toward Total Synthesis of Amphirionin-2 (Fac. Sci. Eng., Chuo Univ.) OKATO, Shota; MIZUKAMI, Daichi; SUGAI, Tomoya; FUWA, Haruhiko
- 2H5-19** Synthetic study of macaranin B (Sch. Sci. Tech., Kwansai Gakuin Univ.) OAOYAMA, Akio; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi
- 2H5-20** Total Synthesis of Phyllanemblinin B (Sch. Sci. Tech., Kwansai Gakuin Univ.) OMATSUMOTO, Shintaro; WAKAMORI, Shinnosuke; YAMADA, Hidetoshi

Monday, March 23, PM

Chair: FUWA, Haruhiko (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2H5-28, 2H5-30, 2H5-32)
- 2H5-28[#]** One-pot synthesis of Corey lactone in 150-minutes and total synthesis oflatanoprost (Tohoku Univ.) OUMEKUBO, Nariyoshi; HAYASHI, Yujiro
- 2H5-30[#]** Development of Stereoselective Intramolecular Pummerer-type Reaction Towards the Total Synthesis of Parameritannin A2 (Sch. Sci., Tokyo Tech.) OBETKEKAR, Vipul; OHMORI, Ken; SUZUKI, Keisuke
- 2H5-32[#]** Total Synthesis of Saptomycin H (Sch. Sci., Tokyo Tech.)
 OSHIMURA, Jun; ANDO, Yoshio; SUZUKI, Keisuke

Chair: ANDO, Yoshio (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2H5-35, 2H5-36, 2H5-37, 2H5-38, 2H5-39, 2H5-40)
- 2H5-35** Synthetic Studies on Neaumycin B: Stereoselective Synthesis of the Northern Hemisphere Spiroacetal (Fac. Sci. Eng., Chuo Univ.) OSUGAI, Tomoya; FUWA, Haruhiko
- 2H5-36** Tandem Synthesis of Polyols Containing 1,3-Diol Motifs (Fac. Sci. Eng., Chuo Univ.) OMURATA, Keisuke; FUWA, Haruhiko
- 2H5-37** Synthesis of the linoleate ester-containing hericenones and their neuroprotective effect against endoplasmic reticulum stress-dependent cell death (Fac. Eng., OIT) OKOSHISHIBA, Mizuho; TAMURA, Tomoki; NAGAI, Kaoru; KOBAYASHI, Shoji
- 2H5-38** Synthetic study of marine natural product siladenoserinol A analogs (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OHANO, Kohei; SUGIYAMA, Yoshiyuki; DOI, Takayuki; YOSHIDA, Masahito; KIGOSHI, Hideo
- 2H5-39** Synthetic study of simplified of Aplysatoxin analog using (R)-(-)-carvone (Fac. Agr., Kagawa Univ.) OMIZUKI, Kajiwaru; KAWANAMI, Yasuhiro; YANAGITA, Ryo; MORITOKI, Keiichi
- 2H5-40** Synthetic study of hyperuralone A, a cytotoxic polycyclic polyprenylated acylphloroglucinol (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba)
 OITSUGI, Keisuke; OHYOSHI, Takayuki; KIGOSHI, Hideo

Chair: KOBAYASHI, Shoji (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(2H5-42, 2H5-43, 2H5-44, 2H5-45, 2H5-46)
- 2H5-42** Synthetic studies of phomonol (Grad. Sch. Sci. Eng., Univ. of Toyama) YOKOYAMA, Hajime; OKATO, Jinta; MIYAZAWA, Masahiro
- 2H5-43** Study of Stereodivergent Synthesis of Symbiodinoline C69-C83 Fragment toward the Structure Determination (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Fac. Sci., Kanagawa Univ.) OHATTORI, Kosuke; OTSU, Taichi; OHASHI, Takumi; TAKAMURA, Hiroyoshi; KADOTA, Isao; UEMURA, Daisuke
- 2H5-44** Study on Asymmetric Synthesis of Pyrenolide A-C (Coll. Sci. Eng., Aoyama Gakuin Univ.) OKIKUCHI, Mina; SANO, Takumi; SASAKI, Ikuo; SUGIMURA, Hideyuki
- 2H5-45** Synthetic study of scytopyhycin B, a cytotoxic macrolide (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ONOGUCHI, Tomonari; MIYAZAKI, Yuto; OHYOSHI, Takayuki; KIGOSHI, Hideo
- 2H5-46** Development of new actin-depolymerizing molecules (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OKIKUCHI, Imari; OHYOSHI, Takayuki; KIGOSHI, Hideo

Chair: TAKIKAWA, Hiroshi (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(2H5-48, 2H5-49, 2H5-50, 2H5-51, 2H5-52)
- 2H5-48** Asymmetric synthesis of (+)- and (-)-niranthin using Donor-Acceptor cyclopropanes (Grad. Sch. Sci. Technol., Shinshu Univ.) OKARASAWA, Daichi; NISHII, Yoshinori
- 2H5-49** Studies toward Total Synthesis of a flavonolignan, Mururin A (Sch. Sci., Tokyo Tech.) OMORITA, Masashi; HIROSE, Yuki; SUZUKI, Keisuke; OHMORI, Ken
- 2H5-50** Divergent Asymmetric Total Synthesis of All Four Chiral pestalotin Families from (R)- Glycidol (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) OMORIYAMA, Mizuki; NAKATA, Kouhei; FUJIWARA, Tetsuya; TANABE, Yoo
- 2H5-51** Synthesis of 2'-Demethyl-7'-hydroxy-2-methyltanzawaic Acid B Amide and SAR Studies on the Related Compounds (Fac. Sci., TUS) MURATA, Takatsugu; OMORI, Takahiro; TATEYAMA, Satoru; MAEKAWA, Yutarou; KUBOTA, Hirokazu; ITO, Keiichi; SHIMONAKA, Motoyuki; SHIINA, Isamu
- 2H5-52** Synthesis of 7'-Hydroxy-2-methyltanzawaic Acid B Stereoisomer and SAR Studies on the Related Compounds (Fac. Sci., TUS) MURATA, Takatsugu; OMAEKAWA, Yutarou; TATEYAMA, Satoru; TSUTSUI, Hisazumi; SHIMONAKA, Motoyuki; SHIINA, Isamu

Tuesday, March 24, PM

Chair: SHINADA, Tetsuro (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3H5-28, 3H5-31, 3H5-32, 3H5-33)
- 3H5-28[#]** Young Scholar Lectures of CSJ Chemical Synthesis and Biosynthesis of Peptidic Natural Products (Grad. Sch. Pharm. Sci., Kyoto Univ.) OKURANAGA, Takefumi
- 3H5-31** Synthetic study on biologically active lipopeptide viridamides (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) YOSHIDA, Masahito; OJO, Tomonori; KIGOSHI, Hideo
- 3H5-32** Synthetic study on 27-membered cyclodepsipeptide lagunamide C (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) YOSHIDA, Masahito; OHAGIMOTO, Kazuki; KIGOSHI, Hideo
- 3H5-33** Synthetic study on antibiotic cyclohexapeptides Hytramycins (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ONABA, Tetsuya; YOSHIDA, Masahito; KIGOSHI, Hideo

Chair: KURANAGA, Takefumi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3H5-35, 3H5-36, 3H5-37, 3H5-38, 3H5-39)
- 3H5-35[#]** Design, synthesis and biological evaluation of α -helix mimetics composed of skeletally diverse macrocyclic mid-sized scaffolds (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) OSHIMIZU, Takahiro; HUBER, Vincent; YOSHIMORI, Atsushi; UEDA, Hiroki; NAKAMURA, Hiroyuki; KOJI, Hiroyuki; OGURI, Hiroki
- 3H5-36** Synthetic study of domoic acid (Univ. of Shizuoka; Sch. Pharm. Sci., Univ. Shizuoka) ONISHIZAWA, Shigeru; ONISHI, Takuma; OYAGI, Yu; SASAKI, Shingo; SUZUKI, Hiroto; OUCHI, Hitoshi; INAI, Makoto; ASAKAWA, Tomohiro; YOSHIMURA, Fumihiko; KAN, Toshiyuki
- 3H5-37** Studies on *N*-acyl- β -aminoalcohol-selective deacylation using imidazole chemistry (Grad. Sch. Nanobiosci., Yokohama City Univ.) OIRIE, Raku; IRIE, Raku
- 3H5-38[#]** Synthetic Studies on Ikoamide (Fac. Sci. Tech., Keio Univ.) SUENAGA, Kiyotake; OLO, Yung Han; IWASAKI, Arihiro
- 3H5-39[#]** Amide-Selective Nucleophilic Addition: Application to Synthesis of Tetrahydroisoquinoline Frameworks and Back-Bone Modification of Peptides (Fac. Sci. Tech., Keio Univ.) OTAKAHASHI, Yoshito; MORI, Tastuya; YOSHII, Risa; SATO, Takaaki; CHIDA, Noritaka

Chair: SATO, Takaaki (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(3H5-42, 3H5-43, 3H5-44,

- 3H5-45)
3H5-42 Synthesis of DE ring fragment of SN-38 (Tohoku Univ.) ○TODA, Narumi; KOSEKI, Yoshitaka; KASAI, Hitoshi
3H5-43 Asymmetric Total Synthesis of Histriocotoxin 235A (Grad. Sch. Sci., Osaka City Univ.) ○MATSUMURA, Kunihiko; NISHIKAWA, Keisuke; YOSHIDA, Hiroaki; FUSHII, Yuuichiro; MORIMOTO, Kunihiko
3H5-44 Diastereoselective Pictet-Spengler Reaction Using (R)- α -Cyanotryptamine and Secologanin Derivative (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Fac. Adv. Sci. Tech., Kumamoto Univ.) ○SAKAMOTO, Jukiya; RAKUMITSU, Kenta; ISHIKAWA, Hayato
3H5-45 Synthetic Studies of 9-Substituted-1-Aminoquinolizidine Derivatives (Grad. Sch. Eng., KAIT) ○OBATA, Haruki; NODA, Takeshi

Chair: TORIKAI, Kohei (16 : 40~17 : 10)

* 16:30-16:40: interval for laptop PC connection.(3H5-47)

- 3H5-47** Young Scholar Lectures of CSJ Natural product synthesis strategy based on the concept of directly constructing the ring skeletons from linear substrates (Grad. Sch. Sci., Osaka City Univ.) ○NISHIKAWA, Keisuke

Wednesday, March 25, AM

Chair: TANAKA, Hiroshi (10 : 10~11 : 10)

* 10:00-10:10: interval for laptop PC connection.(4H5-08, 4H5-09, 4H5-10, 4H5-11, 4H5-12, 4H5-13)

- 4H5-08** Synthetic Study of maresin 2 having anti-inflammatory action (Dept. of Sci. Tech., Meiji Univ.; Dept. of Sci. Tech., Meiji Univ.) ○AMANO, Takahito; YOSHIKAWA, Mitsuki; KOBAYASHI, Yuuichi; OGAWA, Narihito
4H5-09 Synthetic study of Resolvin T4 having anti-inflammatory activity (Sch. Sci. Eng., Meiji Univ.) ○ARAI, Kohei; KOBAYASHI, Yuichi; OGAWA, Narihito
4H5-10 Preparation of Eushearilide Lactone Part from ω -Hydroxycarboxylic Acid Using Aromatic Carboxylic Anhydride with Nucleophilic Catalysts and SAR Studies of Related Compounds (Fac. Sci., TUS) SHIINA, Isamu; ○NODA, Yuuki; AKUTSU, Miku; INOHANA, Takehiko; TONOI, Takayuki; SEKI, Rio; OHKUSU, Misako; KAMEI, Katsuhiko; ISHIWADA, Naruhiko
4H5-11 Synthetic studies on Eushearilide Derivatives and SAR Studies of Related Compounds (Fac. Sci., TUS) ○TONOI, Takayuki; IKEDA, Miyuki; NODA, Yuuki; INOHANA, Takehiko; SEKI, Rio; OHKUSU, Misako; KAMEI, Katsuhiko; ISHIWADA, Naruhiko; SHIINA, Isamu
4H5-12 Total Synthesis of 23-Demethyleushearilide and Studies on Structure-Activity Relationships (Fac. Sci., TUS) TONOI, Takayuki; ○AKUTSU, Miku; NODA, Yuuki; IKEDA, Miyuki; INOHANA, Takehiko; SEKI, Rio; OHKUSU, Misako; KAMEI, Katsuhiko; ISHIWADA, Naruhiko; SHIINA, Isamu
4H5-13 Total Synthesis of FE399 by the MNBA-Mediated Macrolactamization (Fac. Sci., TUS) TONOI, Takayuki; ○IKEDA, Miyuki; AKUTSU, Miku; MATSUDA, Chihiro; SATO, Teruyuki; SHIINA, Isamu

Chair: OGAWA, Narihito (11 : 20~12 : 20)

* 11:10-11:20: interval for laptop PC connection.(4H5-15, 4H5-16, 4H5-17, 4H5-18, 4H5-19)

- 4H5-15** Synthetic Study of Lobatamides (Fac. Sci. Tech., Keio Univ.) ○NAGASHIMA, Yoshiyuki; OKADA, Yuto; HAYASHI, Kana; SATO, Takaaki; CHIDA, Noritaka
4H5-16 Synthesis of the Modified Nafoxidine Derivatives Prepared by the Three-component Coupling Reaction and SAR Studies on the Related Compounds (Fac. Sci., TUS) SHIINA, Isamu; ○TSUCHIYA, Kaho; SAKAI, Anju; NAKATA, Kenya; SHIMONAKA, Motoyuki
4H5-17 Improved Synthesis of 5-Epimerillianin Using the Intramolecular Michael Addition Reaction (Fac. Sci., TUS) MURATA, Takatsugu; ○TOYOYAMA, Kiyotaka; TATEYAMA, Satoru; MORI, Takahiro; TANAKA, Daiki; ITO, Keiichi; YONEKURA, Keita; SHIINA, Isamu
4H5-18 Synthetic study of oolonghomobisflavans using regioselective modification of epigallocatechin-3-O-gallate (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○FUKAGAWA, Yuki; TANAKA, Hiroshi
4H5-19* Unified Synthesis of Lignans Using Cyclic Borates (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○SATO, Ko; TANAKA, Hiroshi

Room H6

Lecture Hall Bldg. K607

Natural Products Chemistry

Sunday, March 22, AM

Chair: IWASAKI, Arihiro (9 : 50~10 : 30)

* 9:40-9:50: interval for laptop PC connection.(1H6-06, 1H6-07, 1H6-08, 1H6-09)

- 1H6-06** Isolation and structural analysis of a novel amidigenol analogs produced by Amphidinium sp. from Ishigaki Island, Okinawa. (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○TANAKA, Hiroyuki; INUZUKA, Toshiyasu; HUNABIKI, Kazumasa; KUBOTA, Yasuhiro; UEMURA, Daitsuke
1H6-07 Biosynthetic study of PR-toxin by CRISPR/Cas9 genome editing(2) (Fac. Sci., Hokkaido Univ.) ○SATO, Yoshiro; TAKINO, Junya; LIU, Chengwei; OZAKI, Taro; MARUYAMA, Junichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-08 Heterologous expression of fungal sesquiterpenes by genome editing. (Fac. Sci., Hokkaido Univ.; Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○MIZUNOUE, Yusuke; TAKINO, Junya; OZAKI, Taro; LIU, Chengwei; MARUYAMA, Junichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-09 Biosynthetic study of abscisic acid in fungi -2- (Fac. Sci., Hokkaido Univ.) ○TAKINO, Junya; KOZAKI, Takuto; LIU, Chengwei; OZAKI, Taro; MINAMI, Atsushi; OIKAWA, Hideaki

Chair: SUENAGA, Kiyotake (10 : 40~11 : 30)

* 10:30-10:40: interval for laptop PC connection.(1H6-11, 1H6-12, 1H6-13, 1H6-14)

- 1H6-11** Biosynthetic study of anthraquinone dimer natural product isolated from filamentous fungi (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○FUKAYA, Mitsunori; MIZUNOUE, Yusuke; OZAKI, Taro; LIU, Chengwei; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-12 Studies on the Biosynthesis of Phomoidride B (Fac. Sci., Hokkaido Univ.) ○YAMAMOTO, Shintaro; OZAKI, Taro; LIU, Chengwei; MARUYAMA, Junichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-13 Biosynthetic study on antifungal agent zopfiellin (4) (Fac. Sci., Hokkaido Univ.) ○SHIINA, Tetsuya; MATSU, Yusuke; NAGAMINE, Shota; OZAKI, Taro; LIU, Chengwei; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-14* Cholesterol effect on the membrane activities of the diosgenyl saponins (Grad. Sch. Sci., Osaka Univ.) ○ONDEVILLA, Joan Candice; HANASHIMA, Shinya; MURATA, Michio

Chair: KUDO, Fumitaka (11 : 40~12 : 20)

* 11:30-11:40: interval for laptop PC connection.(1H6-17, 1H6-18, 1H6-19, 1H6-20)

- 1H6-17** Biosynthetic study of natural terpenoids derived from mushroom (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○NISHISHITA, Jumpei; NAGAMINE, Shota; OZAKI, Taro; LIU, Chengwei; MARUYAMA, Jun-ichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-18 Biosynthetic Study of Melleolides from Basidiomycota Utilizing Heterologous Expression System (3) (Fac. Sci., Hokkaido Univ.; Grad. Sch. Agricultural and Life Sci., The Univ. of Tokyo) ○NAGAMINE, Shota; MINAMI, Atsushi; LIU, Chengwei; OZAKI, Taro; MARUYAMA, Jun-ichi; OIKAWA, Hideaki
1H6-19 Total Biosynthesis of Basidiomycota Diterpene Erinacines (Fac. Sci., Hokkaido Univ.) ○KOTANI, Akari; LIU, Chengwei; OZAKI, Taro; WU, Jing; KAWAGISHI, Hirokazu; MARUYAMA, Jun-ichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-20 Isolation and Structure Determination of New Lipopeptides from Marine Cyanobacterium using Direct Alkyne Enrichment Method (Fac. Sci. Tech., Keio Univ.; Syn. Org. Chem. Lab., RIKEN) ○TAKAHASHI, Hiroki; IWASAKI, Arihiro; OHGANE, Kenji; NAKAO, Shuhei; DODO, Kosuke; SODEOKA, Mikiko; SUENAGA, Kiyotake

Sunday, March 22, PM

Chair: OKADA, Masahiro (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(1H6-29, 1H6-30, 1H6-31, 1H6-32, 1H6-33)
1H6-29 Functional analysis of enzymes encoded in the putative lyngbyapeptin B biosynthetic gene cluster (Sch. Sci., Tokyo Tech.; Sch. Sci., Tokyo Tech.) ○CHIKUMA, Takuji; SUMIMOTO, Shimpei; IWASAKI, Arihiro; SUENAGA, Kiyotake; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
1H6-30 Creation of hitachimycin analogues using substrate specificity of the macrolactam antibiotic hitachimycin biosynthetic enzyme. (Sch. Sci., Tokyo Tech.) ○TAKAHASHI, Sotaro; NAKAZAWA, Yuichiro; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
1H6-31 Investigation of interaction between adenylation enzyme and acyl carrier protein in the biosynthesis of macrolactam antibiotic hitachimycin (Sch. Sci., Tokyo Tech.) ○KURIHARA, Shohei; MIYANAGA, Akimasa; KUDO, Fumitaka; EGUCHI, Tadashi
1H6-32* Studies on the oxidative cyclization of indole diterpene lolitrems (Fac. Sci., Hokkaido Univ.) ○JIANG, Yulu; OZAKI, Taro; LIU, Chengwei; MARUYAMA, Jun-ichi; MINAMI, Atsushi; OIKAWA, Hideaki
1H6-33 Biosynthetic study on phomopsis A, a fungal mycotoxin (2) (Fac. Sci., Hokkaido Univ.) ○SOGAHATA, Kaho; IGARASHI, Yuya; OZAKI, Taro; LIU, Chengwei; MINAMI, Atsushi; OIKAWA, Hideaki

Chair: USUKI, Toyonobu (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(1H6-35, 1H6-36, 1H6-37, 1H6-38, 1H6-39, 1H6-40)

- 1H6-35** Total synthesis and determination of absolute configuration of marine

- acyclic lipopeptide, hoshinoamide C (Grad. Sch. Sci. Tech., Keio Univ.)
 ○OTOMO, Keisuke; SUENAGA, Kiyotake; IWASAKI, Arihiro
- 1H6-36** Isolation and Structure Determination of Iheyamides, New Linear Peptides from Marine Cyanobacterium. (Fac. Sci. Tech., Keio Univ.)
 ○KURISAWA, Naoaki; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1H6-37** Cyclic depsipeptides from Marine Sponge, collected at Ehime prefecture. (Grad. Sch. Sci., Eng., Ehime Univ.; ADRES, Ehime Univ.)
 ○INOUE, Yoshinari; ISHIKURA, Sayaka; DAIDO, Naoki; KURAMOTO, Makoto; MORI, Shigeki; UNO, Hidemitsu
- 1H6-38** Isolation, structure determination and evaluation of glucose uptake activity of new lipopeptide from Okinawan marine cyanobacteria (Fac. Edu., Univ. of Ryukyus) ○OZAKI, Kaori; SUMIMOTO, Shimpei; IWASAKI, Arihiro; SUENAGA, Kiyotake; TERUYA, Toshiaki
- 1H6-39** Study on substrate specificity of Bacillus tryptophan prenyltransferases (Grad. Sch. Eng., Kanagawa Univ.) ○YOSHIMURA, Kaho; ISHIKAWA, Marumi; KITAGAWA, Fumiya; IRIYAMA, Ruri; WEI, Sisi; TAKAHASHI, Takuma; SUMIMOTO, Shimpei; OKADA, Masahiro
- 1H6-40** Synthesis and Biological Evaluation of Coprinoferrin (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Sch. Pharm. Sci., Univ. Shizuoka)
 ○ISOGAI, Tomoki; HAYAKAWA, Ichiro; TSUNEMATSU, Yuta; TAKANISHI, Jun; ASAI, Shihori; WATANABE, Kenji; SAKAKURA, Akira

Chair: SUMIMOTO, Shimpei (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(1H6-42, 1H6-43, 1H6-44, 1H6-45, 1H6-46, 1H6-47)
- 1H6-42** Synthetic study of desmosine bearing cyclic peptide (Sci. Tec., Sophia Univ.) ○ISHIDA, Yuriko; TOKAIRINN, Dai; KIMURA, Gokagu; USUKI, Toyonobu
- 1H6-43** Preparation of desmosine-BSA conjugate antigen. (Sci. Tec., Sophia Univ.) ○MIYAGI, Seiya; YOKOO, Reiko; TANIGAWA, Takahiro; USUKI, Toyonobu
- 1H6-44** Synthetic Study on the Fatty Acid Moiety of Minnamide A, a Marine Lipopeptide 1 (Fac. Sci. Tech., Keio Univ.) ○KISHIMOTO, Yuji; KOBAYASHI, Masayuki; SATO, Rio; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1H6-45** Synthetic Study on the Fatty Acid Moiety of Minnamide A, a Marine Lipopeptide 2 (Fac. Sci. Tech., Keio Univ.) ○KOBAYASHI, Masayuki; SATO, Rio; KISHIMOTO, Yuji; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1H6-46** Synthetic Studies on the Peptide Moiety of Minnamide A, a Marine Lipopeptide (Fac. Sci. Tech., Keio Univ.) ○SATO, Rio; KOBAYASHI, Masayuki; KISHIMOTO, Yuji; IWASAKI, Arihiro; SUENAGA, Kiyotake
- 1H6-47** Study for the convergent synthesis of cyclic protein towards generation of artificial protein library (Grad. Sch. Sci., Osaka Univ.) ○YATSUZUKA, Takahiro; MAKI, Yuta; KAJIHARA, Yasuhiro; OKAMOTO, Ryo

Monday, March 23, AM

Chair: SHIMOKAWA, Jun (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2H6-01, 2H6-02, 2H6-03, 2H6-04, 2H6-05, 2H6-06)
- 2H6-01** Total Synthesis of Stemocochinins by Chemoselective Assembly of Five-Membered Building Blocks (Fac. Sci. Tech., Keio Univ.)
 ○SUGIYAMA, Yasukazu; SODA, Yasuki; SHIBUYA, Kana; YORITATE, Makoto; TAKAHASHI, Yoshito; TAJIMA, Hayato; OGHARA, Chisato; YOKOYAMA, Takashi; SATO, Takaaki; CHIDA, Noritaka
- 2H6-02** Total Synthesis of Protostemoanides by Chemoselective Assembly of Five-Membered Building Blocks (Fac. Sci. Tech., Keio Univ.) ○SODA, Yasuki; SUGIYAMA, Yasukazu; YORITATE, Makoto; TAKAHASHI, Yoshito; SATO, Takaaki; CHIDA, Noritaka
- 2H6-03** Synthetic Study of Akuammiline Type Alkaloids Based on Oxidative Cyclization Using Hypervalent Iodine Agent (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○IIDA, Keita; HOSOYA, Keisuke; ODAGI, Minami; NAGASAWA, Kazuo
- 2H6-04** Evaluation of the Biosynthetic Enzymes of Saframycins and Development of Chemo-enzymatic Synthetic Process (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KOMATSU, Ryoko; TANIFUJI, Ryo; HONDA, Kiichi; ASANO, Ryutarō; TANAKA, Yoshikazu; OGURI, Hiroki
- 2H6-05** Design and Synthesis of Mid-sized Alkaloidal Scaffolds with DNA alkylating ability (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
 ○YAMAMOTO, Takara; TANIFUJI, Ryo; OGURI, Hiroki
- 2H6-06** Design and synthesis of saframycin-type DNA alkylating ligands bearing a macrocyclic skeleton (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○HOSONO, Erina; TANIFUJI, Ryo; OGURI, Hiroki

Chair: USUKI, Toyonobu (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H6-08, 2H6-09, 2H6-10, 2H6-11, 2H6-12, 2H6-13)
- 2H6-08** Derivatization of Anti-osteoporotic Drug-leads, Norzoanthamines (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○KAWAMATA, Chiari; OONUMA, Rio; INUZUKA, Toshiyasu; UEMURA, Daisuke
- 2H6-09** Synthetic study of hasubanan alkaloids based on oxidative cyclization with hypervalent iodine (Fac. Eng., Tokyo Univ. of Agri. and Technol.)
 ○MATOBA, Taisei; HOSOYA, Keisuke; ODAGI, Minami; NAGASAWA, Kazuo

- 2H6-10** Total synthesis of aspidospermidine: Reductive approach to azomethine ylides from amides (Fac. Sci. Tech., Keio Univ.) ○KATAHARA, Seiya; KOMIYA, Yukinori; YAMANE, Mina; FUJITA, Kanami; SATO, Takaaki; CHIDA, Noritaka
- 2H6-11** Assembly of Multiply-Substituted Dihydropyridines and Its Regio-controlled Dimerization Leading to Alkaloidal Skeletons (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○ARAI, Yuta; WATANABE, Ryo; FUJIKAWA, Soushi; OGURI, Hiroki
- 2H6-12** Biogenetic Synthesis and Skeletal Diversification of Indole Alkaloidal Scaffolds (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.)
 ○KUBOTA, Hiroki; OGURI, Hiroki
- 2H6-13** Research on the Construction of a Macrocyclic Bridged Fused Ring by Intramolecular Diels-Alder Reaction toward Total Synthesis of Keramaphidin B (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○SHIBATA, Takahiro; SHIMODA, Hiroki; TAKEI, Maho; SEKINE, Daisuke; NAKADA, Masahisa

Chair: OGURI, Hiroki (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2H6-15, 2H6-17, 2H6-19, 2H6-20)
- 2H6-15[#]** Unified total synthesis of saxitoxins (Fac. Sci. Tech., Keio Univ.)
 ○OKUYAMA, Yuya; OKAMOTO, Ryosuke; MUKAI, Shiori; KINOSHITA, Kyoko; SATO, Takaaki; CHIDA, Noritaka
- 2H6-17[#]** Efficient Synthesis of 7,6-Spirocyclic Imine and Stereochemical Determination of Marine Toxin Spirolied Homologues (Grad. Sch. Sci., Osaka Univ.) ○MINAMINO, Kou; TSUCHIKAWA, Hiroshi; MURATA, Michio; SHIMADA, Noriko; KONOKI, Keiichi
- 2H6-19** Total Synthesis of Lukianols A and B Using Halogen Dance (Grad. Sch. Eng., Kobe Univ.) MORII, Kazuki; ○YASUDA, Yuto; MORIKAWA, Daiki; OKANO, Kentaro; MORI, Atsunori
- 2H6-20** Total Synthesis of Lamellarins Using Halogen Dance (Grad. Sch. Eng., Kobe Univ.) ○MORIKAWA, Daiki; MORII, Kazuki; YASUDA, Yuto; OKANO, Kentaro; MORI, Atsunori

Monday, March 23, PM

Amino acid, Peptide

Chair: YOSHIDA, Masahito (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2H6-28, 2H6-29, 2H6-30, 2H6-31, 2H6-32, 2H6-33)
- 2H6-28[#]** Synthetic study on putative biosynthetic intermediates of aziridine-containing natural products (Grad. Sch. Sci., Osaka City Univ.)
 ○OKAMURA, Hironori; TAKIKAWA, Hiroto; SHINADA, Tetsuro
- 2H6-29[#]** Synthetic Study on Phomopsis A (Grad. Sch. Sci., Osaka City Univ.)
 ○YASUDA, Kohei; YASUNO, Yoko; SHINADA, Tetsuro
- 2H6-30** Synthetic Studies on Opantimycin A isolated from *Streptomyces* sp. RK88-1355 (Grad. Sch. Sci., Osaka City Univ.) ○ABE, Ryota; ISHII, Saho; SATOH, Tetsuya; USUKI, Yoshinosuke
- 2H6-31** Development of a C-terminal activation of unprotected peptides utilizing reverse NCL towards protein semisynthesis (Grad. Sch. Sci., Osaka Univ.) ○IRITANI, Kento; OKAMOTO, Ryo; AMAZAKI, Yoko; MAKI, Yuta; KAJIHARA, Yasuhiro
- 2H6-32[#]** Synthetic studies on aculeine B, a peptide-polyamine hybrid marine toxin (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○MIYAHARA, Masayoshi; IRIE, Raku; SAKAI, Ryuichi; IRIE, Yumi; IRIE, Kazuhiro; OIKAWA, Masato
- 2H6-33[#]** Divergent syntheses and biological evaluations of new artificial glutamate analogs (Grad. Sch. Nanobiosci., Yokohama City Univ.)
 ○TSUKAMOTO, Shuntaro; IRIE, Raku; OIKAWA, Masato

Terpenes, Steroids

Chair: KATO, Nobuki (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2H6-35, 2H6-37, 2H6-38, 2H6-39, 2H6-40)
- 2H6-35[#]** Two-Phase Synthesis of Taxol (Scripps Research Department of Chemistry) ○KANDA, Yuzuru; BARAN, Phil
- 2H6-37** Synthesis of Baccatin III (Fac. Sci. Tech., Keio Univ.) ○IIYAMA, Shota; FUKAYA, Keisuke; YAMAMOTO, Hiroaki; MOCHIZUKI, Shota; YAMAGUCHI, Yu; WATANABE, Ami; SAIO, Ryosuke; SATO, Takaaki; CHIDA, Noritaka
- 2H6-38** Asymmetric Total Synthesis of (+)-Toxicodenane A (Grad. Sch. Sci., Osaka City Univ.) ○KIKUTA, Koki; NISHIKAWA, Keisuke; MORIMOTO, Yoshiki
- 2H6-39** Improved synthetic study of atropurpuran (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○KOYAMA, Takeshi; NAKANISHI, Kenta; SUZUKI, Takahiro; KOBAYASHI, Susumu; TANINO, Keiji
- 2H6-40** Synthetic Study of Scabrolide F (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○SUGITANI, Yuuki; AOKI, Hiroaki; TAKAMURA, Hiroyoshi; KADOTA, Isao

Chair: TAKAMURA, Hiroyoshi (16 : 10~16 : 50)

- * 16:00-16:10: interval for laptop PC connection.(2H6-44, 2H6-46, 2H6-47)
- 2H6-44[#]** Synthetic study of aplysiasecosterol A, a marine 9,11-secosteroid

- (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) OTANO, Hikaru; HOSONO, Shu; OHYOSHI, Takayuki; KIGOSHI, Hideo
2H6-46 SAR study of Yoshinone A (Grad. Sch. Fac. Sci., Kanagawa Univ.) ITAKURA, Yuki; KAWAZOE, Yoshinori; KOYAMA, Tomoyuki; UEMURA, Daisuke
2H6-47 Practical synthesis of optically pure (+)-coronafacic acid (Grad. Sch. Sci., Tohoku Univ.) ONOMOTO, Haruna; MIYAGAWA, Saki; NAKAYAMA, Misuzu; IWASHITA, Makoto; KATO, Nobuki; UEDA, Minoru

Chair: YOSHIDA, Masahito (17 : 00~17 : 30)

- * 16:50-17:00: interval for laptop PC connection.(2H6-49, 2H6-50, 2H6-51)
2H6-49 Design and Synthesis of Self-assembling Aza-artemisinins toward the Development of Cancer Chemotherapy (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Showa Pharm. Univ.) OKOI, Hikari; TAKAHASHI, Norihito; FUCHI, Yasumumi; KARASAWA, Satoru; OGURI, Hiroki
2H6-50 Expedient construction of highly oxygenated terpenoid skeletons utilizing desymmetrizing reductive-Heck cyclization (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) YOSHIDA, Ryuji; KUBO, Aoi; MIZOGUCHI, Haruki; SAKAKURA, Akira
2H6-51 Divergent short-step synthesis of ferriellins and their structural revision (Grad. Sch. Sci., Osaka City Univ.) ONIWA, Toshiaki; NISHIKIBE, Kentou; NISHIKAWA, Keisuke; MORIMOTO, Yoshiaki

Tuesday, March 24, PM

Sugar

Chair: MANABE, Yoshiyuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(3H6-28, 3H6-29, 3H6-30, 3H6-31, 3H6-32, 3H6-33)
3H6-28 C-Glycosylation of Xanthone by S_NAr Reaction/Claisen Rearrangement Sequence (Sch. Pharm., TUPLS; Sch. of Life Sci., TUPLS) MAKITA, Momoka; FUKUYO, Yuuta; MOCHIZUKI, Miho; FUJIMOTO, Yuuki; MATSUMOTO, Takashi
3H6-29 Synthetic Study of C-linked Glycolipid Using Atom-Transfer Radical Coupling (Grad. Sch. Pharm., Kyushu Univ.) YORITATE, Makoto; HIDAKA, Yu; KIYA, Noriaki; USUI, Kazuteru; HIRAI, Go
3H6-30 Development of a synthetic method for C-glycoside derivatives by photoredox-assisted reductive cross-coupling reaction (Grad. Sch. Pharm., Kyushu Univ.) ONO, Shunsuke; NAGATOISHI, Masataka; USUI, Kazuteru; YORITATE, Makoto; HIRAI, Go
3H6-31 Synthesis of B-glycosides and application to synthesis of C-glycosides (Grad. Sch. Pharm., Kyushu Univ.) TAKEDA, Daiki; YASUTOMI, Hiroki; YOKOO, Atsushi; USUI, Kazuteru; YORITATE, Makoto; HIRAI, Go
3H6-32 A study on the synthesis of an α -ribofuranoside produced by Streptomyces species (Fac. Eng., Gifu Univ.) TOICHI, Yuto; OKA, Natsuhisa; JINDO, Yuka; ANDO, Kaori
3H6-33 Synthetic Study on Kanamycin B: Application of Diastereoselective Desymmetric 1,2-*cis*-Glycosylation (Fac. Sci. Tech., Keio Univ.) SATO, Koji; OYAMADA, Rikuto; TANAKA, Masamichi; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu

Chair: TANAKA, Hiroshi (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(3H6-35, 3H6-37, 3H6-38, 3H6-39, 3H6-40)
3H6-35 Synthesis of Oligosaccharide derived from Pathogenic *E. coli* Using Boronic-Acid-Catalyzed Regio- and Stereoselective β -Rhamnosylation (Fac. Sci. Tech., Keio Univ.) NISHI, Nobuya; SEKI, Katsunori; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
3H6-37 Synthesis and functions of symbiotic bacterial lipid A analogs (Grad. Sch. Sci., Osaka Univ.) OYAMAURA, Haruki; SHIMOYAMA, Atsushi; MIZOTE, Keisuke; FUKASE, Koichi
3H6-38 Synthetic study of N-glycan of Thermococcus Kodakarensis (Grad. Sch. Sci., Osaka Univ.) HIRAO, Kohtarou; MANABE, Yoshiyuki; ONO, Risako; FUKASE, Koichi
3H6-39 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
3H6-40 Isolation and Structure Analysis of Nematode Attractants from Mucilage of Flaxseed (Grad. Sch. Sci. & Tech., Kumamoto Univ.; Fac. Adv. Sci. Tech., Kumamoto Univ.) IWAMOTO, Yuka; ALLEN YI-LUN, Tsai; OOTA, Morihiro; KOTAKE, Toshihisa; SAWA, Shinichiro; ISHIKAWA, Hayato

Chair: HIRAI, Go (15 : 50~16 : 30)

- * 15:40-15:50: interval for laptop PC connection.(3H6-42, 3H6-43, 3H6-44, 3H6-45)
3H6-42 Synthesis of a Fucoidan Derivative and Its Inhibitory Activities toward Heparanase and Hyaluronidase (Fac. Sci. Tech., Keio Univ.) KANNO, Yuko; KOMABA, Sumika; TAKAHASHI, Daisuke; TOSHIMA, Kazunobu
3H6-43 Synthesis and structural analysis of inhibitors of β -L-arabinanofuranosidases (RIKEN CPR) ISHIWATA, Akihiro; NARITA, Satoru; ITO,

Yukishige

- 3H6-44** Towards in vivo gold (III)-catalyzed chemical glycosylation for targeting cancer cells (Biofunc. Syn. Chem. Lab., RIKEN) LIN, Yixuan; CHANG, Tsungche; TANAKA, Katsunori
3H6-45 Targeted delivery of an inhibitor of glycosyltransferase to cancer cells (Biofunc. Syn. Chem. Lab., RIKEN) CHANG, Tsungche; TANAKA, Katsunori

Chair: TAKAHASHI, Daisuke (16 : 40~17 : 10)

- * 16:30-16:40: interval for laptop PC connection.(3H6-47, 3H6-48)
3H6-47 Stability and reactivity Study of Riken click probe for glycoconjugation (GlycoTargeting Research Lab., BZP, RIKEN; Biofunctional Synthetic Chemistry Lab., CPR, RIKEN; Sch. Mater. & Chem. Tech., Tokyo Tech.; A. Butlerov Inst. of Chem., KFU; GlyTech, Inc.) NAKAMURA, Kayo; MURASE, Takefumi; SHIMODA, Taiji; TANAKA, Katsunori
3H6-48 Core fucose on IgG antibody is an endogenous ligand of Dectin-1 (Grad. Sch. Sci., Osaka Univ.) MANABE, Yoshiyuki; MARCHETTI, Roberta; TAKAKURA, Yohei; NAGASAKI, Masahiro; NIHEI, Wataru; TAKEBE, Tomoyuki; TANAKA, Katsunori; KABAYAMA, Kazuya; CHIODO, Fabrizio; HANASHIMA, Shinya; KAMADA, Yoshihiro; MIYOSHI, Eiji; DULAL, Hari Prasad; YAMAGUCHI, Yoshiaki; ADACHI, Yoshiyuki; OHNO, Naohito; TANAKA, Hiroshi; SILIPO, Alba; MOLINARO, Antonio; FUKASE, Koichi

Wednesday, March 25, AM

Terpenes, Steroids

Chair: OHYOSHI, Takayuki (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(4H6-01, 4H6-02, 4H6-03, 4H6-05, 4H6-06)
4H6-01 Study about the structural analysis of sukumoic acid, a cytotoxic compound derived from a marine sponge (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) TANAKA, Daichi; INUZUKA, Toshiyasu; KAWAMATA, Chiari; UEMURA, Daisuke; FUNABIKI, Kazumasa; KUBOTA, Yasuhiro
4H6-02 Configurational Analysis of Oxidized Cholesterol Isomers by the Crystalline Sponge Method (Grad. Sch. Eng., The Univ. of Tokyo; IMS) WADA, Naoki; KAGEYAMA, Ko; JUNG, Youngcheol; MITSUHASHI, Takaaki; FUJITA, Makoto
4H6-03 Suggestion of the Relative Configuration of a Red Alga-Derived Polyether Callicladol Based on the Model Synthesis (Grad. Sch. Sci., Osaka City Univ.) NISHIKIBE, Kentou; NISHIKAWA, Keisuke; MORIMOTO, Yoshiaki
4H6-05 Divergent synthesis and structural revision of nerolidol-type sesquiterpenoids utilizing the switching reaction of cyclization modes of diepoxides (Grad. Sch. Sci., Osaka City Univ.) MATSUURA, Akihisa; IKEUCHI, Takumi; NISHIKAWA, Keisuke; MORIMOTO, Yosiki
4H6-06 Synthetic Studies of Hyphenrone B (Fac. Sci. Tech., Keio Univ.) YOKOYA, Yusuke; TAKENAKA, Manami; OGURA, Akihiro; TAKAO, Ken-ichi

Chair: TAKIKAWA, Hiroshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(4H6-08, 4H6-09, 4H6-10, 4H6-11, 4H6-12, 4H6-13)
4H6-08 Synthetic Studies of Zeylanidine (Fac. Sci. Tech., Keio Univ.) KUSUHATA, Kotaro; OSADA, Naoaki; OGURA, Akihiro; TAKAO, Ken-ichi
4H6-09 Synthetic Studies of Guttiferone A (Fac. Sci. Tech., Keio Univ.) AOKI, Daisuke; OKUMURA, Kaori; OGURA, Akihiro; TAKAO, Ken-ichi
4H6-10 Synthetic study on swinhoeisterol A, a marine steroid-related compound (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ZHAO, Yiwen; TAKANO, Atsuhiko; OHYOSHI, Takayuki; KIGOSHI, Hideo
4H6-11 Reaction of 2,3-epoxysqualene derivatives and some nucleophilic agents (IRC3, AIST) TRAN, Ngoc Linh; INAMI, Yuri; OKAMURA, Masami; TOMINAGA, Kenichi; ARIMURA, Takashi; KIGOSHI, Hideo
4H6-12 Synthetic Study of Deuterium-labelled Acyclic Terpenes (Grad. Sch. Sci., Osaka City Univ.) KUMADAKI, Katsushi; OKAMURA, Hironori; YASUNO, Yoko; SHINADA, Tetsuro
4H6-13 Total synthesis of dolichol (C100) (Sch. Sci., Osaka Univ.) ONO, Risako; HIRAO, Kotaro; MANABE, Yoshiyuki; FUKASE, Koichi

Chair: OGURA, Akihiro (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(4H6-15, 4H6-17, 4H6-18, 4H6-19, 4H6-20)
4H6-15 Total Synthesis of Hispidospermidin based on a novel method to construct caged skeleton (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) SAITO, Hiroki; TANINO, Keiji
4H6-17 Synthetic Study of Terpendole E: Stereoselective Construction of Contiguous Asymmetric Quaternary Carbon Centers (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) MATSUMARU, Naohika; HAYAKAWA, Ichiro; SAKAKURA, Akira
4H6-18 Total Synthesis of (-)-Tubingensin B, An Antiviral Indole Diterpenoid (Grad. Sch. Pharm. Sci., Kyoto Univ.) TAKIKAWA, Hiroshi; OGAWA, Taiki; NISHII, Arata; SUZUKI, Keisuke; TAKASU, Kiyosei

- 4H6-19** Synthesis of the Seven-Membered Ring Segment and the Five-Membered Ring Segment of Aconitine (Fac. Sci. Tech., Keio Univ.)
○WATANUKI, Tomoaki; YOSHIOKA, Soichiro; KADOYA, Yuki; MIURA, Ryusei; EGUCHI, Akio; NAKATA, Masaya; SAIKAWA, Yoko
- 4H6-20[#]** Synthetic Study of Tetrapetalone A by an Intramolecular Oxidative Phenol-Alkene Coupling Reaction (Fac. Pharm., Keio Univ.) ○DEGUCHI, Hiroki; HANAYA, Kengo; SUGAI, Takeshi; HIGASHIBAYASHI, Shuhei

Room H7

Lecture Hall Bldg. K608

Coordination Chemistry, Organometallic Chemistry

Sunday, March 22, PM

Cd

Chair: HORI, Akihiro (12 : 50~13 : 40)

- * 12:40-12:50: interval for laptop PC connection.(1H7-24, 1H7-25, 1H7-27)
- 1H7-24[#]** MOF with Photosensitive Functions (Fac. Eng., The Univ. of Tokyo) ○CHEN, Zhiyi; MATSUI, Toshiya; SATO, Hiroshi; AIDA, Takuzo
- 1H7-25[#]** Multi-interactive hexaazaphenylene-based pyridinium ligands and their incorporation into coordination networks (Tokyo Tech.) ○DEEKAMWONG, Krittanun; OHTSU, Hiroyoshi; KAWANO, Masaki
- 1H7-27[#]** Site-selective transmetalation on a D_3 -symmetric $M_{11}L_6$ type Supramolecular Metal Complex having C_4 -symmetric Porphyrin Ligands (Grad. Sch. Sci., The Univ. of Tokyo; Rigaku Corp.) ○IIZUKA, Fumiya; UBE, Hitoshi; SATO, Hiroyasu; SHIONOYA, Mitsuhiko

Zn

Chair: KURAMOCHI, Yusuke (13 : 50~14 : 50)

- * 13:40-13:50: interval for laptop PC connection.(1H7-30, 1H7-32, 1H7-33, 1H7-34)
- 1H7-30[#]** Enantioselective Construction of a Tetrahedral Zn^{II} ABCD Center with a Stable Chirality Sense and a Catalytically Active Coordination Site (Grad. Sch. Sci., The Univ. of Tokyo) ○ENDO, Kenichi; LIU, Yuanfei; UBE, Hitoshi; NAGATA, Koichi; SHIONOYA, Mitsuhiko
- 1H7-32** Synthesis of Hetero-multinuclear Complexes of First-row Transition Metals and Rare-earth Metals Supported by a Phenoxymine-containing Macrocyclic Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○FUJIWARA, Sakiko; SAKAMOTO, Kazutaka; MATSUSHIRO, Saki; NAGAE, Haruki; TSURUGI, Hayato; MASHIMA, Kazushi
- 1H7-33** Synthesis of Coumarin Functionalized Nanoporous Zinc(II) Complex with Pillared-Layer Structure (Sch. Eng., Nagoya Univ.) ○KUMAGAI, Keita; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 1H7-34[#]** Adaptive Nanographene Metal-Organic Frameworks (Grad. Sch. Eng., The Univ. of Tokyo; RIKEN CEMS) ○SUGINOME, Shun; SATO, Hiroshi; AIDA, Takuzo

Chair: SATO, Hiroshi (15 : 00~16 : 00)

- * 14:50-15:00: interval for laptop PC connection.(1H7-37, 1H7-38, 1H7-39, 1H7-41, 1H7-42)
- 1H7-37** Photocatalytic CO_2 Reduction Using Cyclic Zn(II) Porphyrin Trimer Incorporating Re(I) Complex Catalyst (Fac. Sci., TUS) ○TANAHASHI, Kotaro; KURAMOCHI, Yusuke; SATAKE, Akiharu
- 1H7-38** Special-Pair Model Zinc(II) Porphyrin as a Photosensitizer in Photocatalytic CO_2 Reduction (TUS) ○SATO, Ren; SAKUMA, Hiroki; KURAMOCHI, Yusuke; SATAKE, Akiharu
- 1H7-39[#]** Development of Efficient Triplet-DNP system Using Metal-Organic Frameworks (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST) ○MALLICK, Arijit; YANAI, Nobuhiro
- 1H7-41** Synthesis of Nanoporous Metal Complexes with Lewis Acids and Bases (Grad. Sch. Eng., Nagoya Univ.) ○ISHIDA, Riku; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 1H7-42** Structure and Redox Property of Nanoporous Metal Complexes Having an Electron-rich π -surface (Grad. Sch. Eng., Nagoya Univ.) ○NAGAI, Kazuki; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro

Chair: YANAI, Nobuhiro (16 : 10~17 : 10)

- * 16:00-16:10: interval for laptop PC connection.(1H7-44, 1H7-45, 1H7-46, 1H7-47, 1H7-48, 1H7-49)
- 1H7-44** Synthesis and Singlet Oxygen Trapping of Nanoporous Zinc(II) Complex with Photosensitizing Property (Sch. Eng., Nagoya Univ.) ○TOKUNAGA, Takaya; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 1H7-45** Design, Synthesis and Photoreactivity of Nanoporous Metal Complexes with Carbon-Carbon Double Bonds (Grad. Sch. Eng., Nagoya Univ.) ○ONO, Katsuya; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro

- 1H7-46** Polymer intercalation dynamics in metal-organic frameworks (Fac. Eng., The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo; Grad. Sch. Frontier Sci., The Univ. of Tokyo; JST-CREST) ○OE, Noriyoshi; HOSONO, Nobuhiko; UEMURA, Takashi
- 1H7-47** Synthesis, structure, and gas adsorption properties of metal-organic frameworks having 9,10-disubstituted triptycene-based ligands. (Grad. Sch. Sci., Rikkyo Univ.) ○YANAGISAWA, Daichi; SUGAMATA, Koh; IIHAMA, Teruyuki; MINOURA, Mao
- 1H7-48** Synthesis of Nanoporous Metal Complexes Using Ligands Chiral Cyclophane Derivative (Grad. Sch. Eng., Nagoya Univ.) ○KIKUSHIMA, Kenta; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro

Al

- 1H7-49** Synthesis and structure of aluminum complexes ligated by hexaazacyclooctadecane tetrayl (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TAKAYAMA, Shunsuke; YAMAMOTO, Koji; MURAHASHI, Tetsuro

Chair: MATSUDA, Ryotaro (17 : 20~18 : 20)

- * 17:10-17:20: interval for laptop PC connection.(1H7-51, 1H7-53, 1H7-55, 1H7-56)
- 1H7-51[#]** Synthesis of β -Diketimate Complexes of the Group 13 Elements and Heavy-Atom Effect on Solid-State Luminescence Properties (Grad. Sch. Eng., Kyoto Univ.) ○ITO, Shunichiro; TANAKA, Kazuo; CHUJO, Yoshiaki
- 1H7-53[#]** Superprotonic Conductivity in Metal-Organic Framework via Post-synthetic Modification with Urea (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SARANGO-RAMIREZ, Marvin Kevin; LIM, Dae-woon; KOLOKOLOV, Daniil I.; KHUDOZHITKOV, Alexander E.; STEPANOV, Alexander G.; KITAGAWA, Hiroshi
- 1H7-55** Systematic Synthesis and Evaluation of Metal-Organic Frameworks with Structural Transformation Property (FIRST, Konan Univ.) ○HORIKOSHI, Atsuto; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke
- 1H7-56** Hydrophobic treatment of metal-organic frameworks by post-synthetic modification (FIRST, Konan Univ.) ○KUBO, Neo; TAKASHIMA, Yohei; TSURUOKA, Takaaki; AKAMATSU, Kensuke

Monday, March 23, AM

Bioinorganic Chemistry (Mn, Ni)

Chair: ONO, Toshikazu (9 : 00~10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(2H7-01, 2H7-02, 2H7-03, 2H7-04, 2H7-05, 2H7-06)
- 2H7-01** Study on synthesis and reactivity of Mn(V) mono-oxo porphyrin complexes (Fac. Sci., Nara Women's Univ.) ○KATO, Yuri; HONDA, Yuki; FUJII, Hiroshi
- 2H7-02** Synthesis and Properties of Multinuclear Complexes of First-Row Transition Metals with Tripod Ligands Containing β -Ketoiminate Moieties (Grad. Sch. Sci., Osaka Univ.) ○ARAI, Takuya; KUSUMOTO, Masaaki; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 2H7-03** Preparation of Myoglobin Reconstituted with Manganese Porphycene Having Trifluoromethyl Groups (Grad. Sch. Eng., Osaka Univ.) ○YAMASHITA, Ren; TANAKA, Tomoya; KAGAWA, Yoshiyuki; OOHORA, Koji; HAYASHI, Takashi
- 2H7-04** The synthesis, structure, and reactivity of dimetal complexes with a new dinucleating ligand with two permethyl cyclen pendant groups at both sides of a 1,2-dipyridylethane moiety (Fac. Sci. Eng., Doshisha Univ.) ○YASUKAWA, Shoma; WADA, Kazuhito; TAKAHASHI, Hiroto; HITOMI, Yutaka; KODERA, Masahito
- 2H7-05** Formation mechanism of Ni(II)-phenoxyl radical complexes from Ni(II)-phenolates by oxygen. (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○SUZUKI, Takashi; SHIMAZAKI, Yuichi
- 2H7-06** Assessment of electrochemical hydrogen evolution reaction by Ni(II) complexes having NP-type ligands with different functional group (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATO, Takuma; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Bioinorganic Chemistry (Fe, Co)

Chair: FUJII, Hiroshi (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(2H7-08, 2H7-10, 2H7-12, 2H7-13)
- 2H7-08[#]** Reactivity of Prussian blue incorporated into ferritin (Grad. Sch. Sci., Osaka City Univ.) ○IKENOUE, Yuta; NISHIOKA, Takanori; NAKAJIMA, Hiroshi
- 2H7-10[#]** Synthesis and O_2 Binding Property of Recombinant Cross-Linked Hemoglobin-Albumin Trimer with Cooperativity (Fac. Sci. Eng., Chuo Univ.) ○MORITA, Yoshitsugu; SHINDO, Yuki; KOMATSU, Teruyuki
- 2H7-12** Synthesis and Chemical Properties of P450 Model Complex that Axial Thiolate is Replaced by Selenolate (Grad. Sch. Pharm. Sci., Nagoya City Univ.) ○YANO, Yuuki; SHIRAKAWA, Yoshinori; UMEZAWA, Naoki; HISAMATSU, Yosuke; HIGUCHI, Tsunehiko
- 2H7-13** Development of single-component B12 photocatalytic system for green molecular transformation (Grad. Sch. Eng., Kyushu Univ.) ○ANAI,

Yuki; HISAEDA, Yoshio; SHIMAKOSHI, Hisashi

Bioinorganic Chemistry (Cu)

Chair: MORIMOTO, Yuma (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(2H7-15, 2H7-17, 2H7-19, 2H7-20)
- 2H7-15[#]** Structural and energetic studies of S- π , π - π , and CH- π noncovalent weak interactions in Met16X Pseudoazurin variants (Ibaraki Univ.) ○TABOROSI, Attila; YAMAGUCHI, Takahide; MORI, Seiji; KOHZUMA, Takamitsu
- 2H7-17^{*}** pH Structural Transition of Pseudoazurin elucidated by SANS-MD (Grad. Sch. Sci. Eng., Ibaraki Univ.; Frontier Research Center for Applied Atomic Sci., Ibaraki Univ.; ANSTO) ○YAMAGUCHI, Takahide; TABOROSI, Attila; WOOD, Kathleen; WHITTEN, Andrew; KOHZUMA, Takamitsu
- 2H7-19** Oxidation of gaseous alkanes with H₂O₂ catalyzed by dicopper complexes using oxidized CNT as a substrate binding site (Fac. Sci. Eng., Doshisha Univ.) ○KAWAHASHI, Momoe; WADA, Kazuhito; TAKAHASHI, Hiroto; HITOMI, Yutaka; KODERA, Masahito
- 2H7-20** Development of catalysts for selective oxidation of inert hydrocarbons: synthesis, structure, catalytic reactions of a hexanuclear copper complex (Fac. Sci. Eng., Doshisha Univ.) ○TANAKA, Kosei; TAKAHASHI, Hiroto; HITOMI, Yutaka; KODERA, Masahito

Monday, March 23, PM

Chair: MATSUO, Takashi (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(2H7-28, 2H7-29, 2H7-31, 2H7-33)
- 2H7-28** Oxidative DNA Cleavage and Cytotoxicity of Amide-Tether Dicopper Complexes Having a Phenanthrene Group as a DNA-Binding Site (Doshisha Univ.) ○HATA, Machi; SAITO, Ituki; KADOYA, Yuki; TANAKA, Yoshiaki; HITOMI, Yutaka; KODERA, Masahito
- 2H7-29[#]** Synthesis, Structure, Oxidative DNA Cleavage, and Cytotoxicity of Dicopper Complex with Amide-Tether Ligand Having two N,N-Dipyrityl-methylamides at 2,6-Positions of *p*-Cresol (Grad. Sch. Eng., Doshisha Univ.) ○KADOYA, Yuki; HATA, Machi; TANAKA, Yoshiaki; HITOMI, Yutaka; KODERA, Masahito
- 2H7-31[#]** Theoretical Studies on the Ligand Effects on the Formation of Dicopper-Oxygen Complexes (MICE, Kyushu Univ.) ○ABE, Tsukasa; SHIOTA, Yoshihito; ITOH, Shinobu; YOSHIZAWA, Kazunari
- 2H7-33[#]** Reactivity of an Active Site Model of Copper Monooxygenases (Grad. Sch. Eng., Osaka Univ.) ○FUKATSU, Arisa; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu

Bioinorganic Chemistry (Cu, Ru, Rh)

Chair: HITOMI, Yutaka (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(2H7-35, 2H7-36, 2H7-37, 2H7-39)
- 2H7-35** Synthesis of Dicopper Complexes Using Cyclic Ligands Capable of Capturing Multi-metal Centers (Grad. Sch. Sci., Osaka Univ.) ○OKURA, Nozomu; HATANAKA, Tsubasa; FUNAHASHI, Yasuhiro
- 2H7-36** Synthesis of a Rhodium Complex of a Monoanionic Porphyrinoid Ligand toward a Functional Model of Vitamin B₁₂-dependent Enzyme (Grad. Sch. Eng., Osaka Univ.) ○KUDO, Teruhisa; MIYAZAKI, Yuta; OOHORA, Koji; HAYASHI, Takashi
- 2H7-37^{*}** A new, efficient synthesis of bis-pocket porphyrin metal complexes and their regioselective oxidation of alkanes. (Grad. Sch. Pharm. Sci., Nagoya City Univ.) AMANO, Taisei; INAGAKI, Hideki; HISAMATSU, Yosuke; UMEZAWA, Naoki; ○HIGUCHI, Tsunehiko
- 2H7-39[#]** Fixation of Hoveyda-Grubbs-type complexes onto biomolecules using ligand exchange strategy (Grad. Sch. Mat. Sci., NAIST) ○JATMIKA, Catur; GOSHIMA, Kenta; HIROTA, Shun; YAMAGUCHI, Hiroyasu; MATSUO, Takashi

Cu

Chair: ISAGO, Hiroaki (15 : 50~16 : 50)

- * 15:40-15:50: interval for laptop PC connection.(2H7-42, 2H7-43, 2H7-44, 2H7-45, 2H7-46, 2H7-47)
- 2H7-42** Synthesis of luminescent coordination polymers using flexible diisopyrazole ligand and copper(I) halides (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○KASAI, Chika; MANABE, Umehiro; YONEDA, Tomoki; INOKUMA, Yasuhide
- 2H7-43** Structures and Characterizations of Copper(II) and Iron(III) Catecholato Complexes Using Hydrotris(pyrazolyl)borate Ligand (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○OKAMURA, Moemi; FUJISAWA, Kiyoshi
- 2H7-44** Modulation of oxygen activation by tridentate coordination moiety of unsymmetric pyridylalkylamine ligand system (Grad. Sch. Sci., Osaka City Univ.) ○KAMADA, Yasunari; KOZAKI, Masatoshi; TACHI, Yoshimitsu
- 2H7-45** Luminescence Piezochromism of Copper(I) Iodide Multinuclear Complexes in Crystalline States. (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○MIYASHITA, Hana; IIDA, Hiroki; OZAWA, Yosiki; TAHARA,

Keishirou; ABE, Masaaki

Ag

- 2H7-46** Synthesis and molecular adsorption properties of a porous coordination polymer composed of unsymmetric benzimidazole[3]arene ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○OKAJIMA, Yoshiki; TASHIRO, Shohei; SHIONOYA, Mitsuhiko
- 2H7-47** Anion-templated Synthesis of a Ag₆L₄-type Capsule Complex Composed of Unsymmetric Benzimidazole[3]arene Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○TASHIRO, Shohei; KRINGE, Lea Antonia; OKAJIMA, Yoshiki; SHIONOYA, Mitsuhiko

Chair: OZAWA, Yoshiki (17 : 00~17 : 40)

- * 16:50-17:00: interval for laptop PC connection.(2H7-49, 2H7-50, 2H7-51, 2H7-52)
- 2H7-49** Carbon dioxide fixation reaction using bipyrazole silver(I) polynuclear complexes as a heterogeneous catalyst. (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○OKANO, Mitsuki; FUJISAWA, Kiyoshi
- 2H7-50** Uptake Behavior of Silver Ions into Gold(I) Complexes with 4-Phenyl Substituted Pyrazolates (Coll. Sci., Ibaraki Univ.) ○TAKEDA, Soran; SAOTOME, Mai; FUJISAWA, Kiyoshi
- 2H7-51** Observation and mechanism of slow magnetic relaxations in Ag(II) phthalocyanine complex with the S = 1/2 spin states (Grad. Sch. Sci., Osaka Univ.) ○GOTO, Hikaru; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 2H7-52[#]** Syntheses and spectral investigation of water-soluble silver(II)-phthalocyanine complexes (GREEN, NIMS) ○ISAGO, Hiroaki; FUJITA, Harumi; SUGIMORI, Tamotsu

Tuesday, March 24, AM

Cu

Chair: YOSHINARI, Nobuto (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(3H7-01, 3H7-02, 3H7-03, 3H7-04, 3H7-05, 3H7-06)
- 3H7-01** Synthesis, Structure, Oxidative DNA cleavage, and Cytotoxicity of Dicopper Complex with Amide-Tether Ligand Having Distamycin derivatives as a DNA Binding Site (Fac. Sci. Eng., Doshisha Univ.) ○NAGAO, Mika; KADOYA, Yuki; HATA, Machi; TANAKA, Yoshiaki; HITOMI, Yutaka; KODERA, Masahito
- 3H7-02** Synthesis of a new amide-tether dinucleating ligand having two N,N-diimidazolylmethylamides at 2,6-positions of *p*-cresol and its dicopper complex (Doshisha Univ.) ○TAKAMATSU, Taishi; HATA, Machi; KADOYA, Yuki; TANAKA, Yoshiaki; KODERA, Masahito; HITOMI, Yutaka
- 3H7-03** Oxidative DNA cleavage and cytotoxicity of dicopper complexes with amide-tether ligands having two tacn donors at 2,6-positions of *p*-cresol and effect of N-methylation (Fac. Sci. Eng., Doshisha Univ.) ○UEDA, Shunsaku; TANAKA, Yoshiaki; HATA, Machi; KADOYA, Yuki; HITOMI, Yutaka; KODERA, Masahito
- 3H7-04[#]** Kinetic assembly of porous coordination networks with CuI units and their application to alkane / alkene separation (Sch. Sci., Tokyo Tech.) ○KANAMARU, Tatsuya; OHTSU, Hiroyoshi; KAWANO, Masaki
- 3H7-05** Direct Synthesis of Metal-Organic Frameworks on a Metal Ion-Doped Polymer Substrate (FIRST, Konan Univ.) ○HIRAO, Shoya; TAKASHIMA, Yohei; AKAMATSU, Kensuke; TSURUOKA, Takaaki
- 3H7-06** Evaluation of asymmetric dicopper complex with a unique asymmetric environment modeling pMMO active site (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○KATO, Kohki; NISHIMURA, Shibuki; OTIAI, Tatsuya; INOMATA, Tomohiko; OZAWA, Tomohiro; MASUDA, Hideki

Chair: INOMATA, Tomohiko (10 : 30~11 : 10)

- * 10:20-10:30: interval for laptop PC connection.(3H7-10, 3H7-12, 3H7-13)
- 3H7-10[#]** Reaction Mechanism of Oxidative Conversion of Nitric Oxide by Copper(II) Complexes (Grad. Sch. Eng., Osaka Univ.) ○MORIMOTO, Yuma; SHIMIZU, Yusuke; INOUE, Keisuke; ITOH, Shinobu
- 3H7-12** Alkane Hydroxylation Reaction by Dicopper(II) Peroxide Complexes in Crystal (Grad. Sch. Eng., Osaka Univ.; Fac. Sci., Nara Women's Univ.) ○KAMADA, Ryusuke; FUKATSU, Arisa; MORIMOTO, Yuma; SUGIMOTO, Hideki; MIKATA, Yuji; ITOH, Shinobu
- 3H7-13** Selective Synthesis and Physical Properties of Copper(II) Assemblies using Unsymmetric Ligands (Grad. Sch. Sci., Kyushu Univ.) ○MATSUO, Kazuya; SASAKI, Kenta; YOSHINO, Haruka; OHTANI, Ryo; OHBA, Masaaki

Chair: OHTANI, Ryo (11 : 20~12 : 20)

- * 11:10-11:20: interval for laptop PC connection.(3H7-15, 3H7-16, 3H7-17, 3H7-18, 3H7-19, 3H7-20)
- 3H7-15** Reaction of Mononuclear Copper Complexes of Cyclic Diamine Ligands toward *m*-chloroperoxybenzoic acid (mCPBA) (Grad. Sch. Eng., Osaka Univ.) NAKANISHI, Aya; MORIMOTO, Yuma; SUGIMOTO, Hideki; ○ITOH, Shinobu
- 3H7-16** Reactivity of Copper(II) Complex with Sterically Demanding Phenylenediamine Bidentate Ligand (Grad. Sch. Eng., Osaka Univ.) ○KAWAI,

- Makito; MORIMOTO, Yuma; SUGIMOTO, Hideki; ITOH, Shinobu
- 3H7-17** Theoretical Studies on the Nitric Oxide-Reduction Mechanisms by Dicopper Complexes (IMCE, Kyushu Univ.) ○KAMETANI, Yohei; ABE, Tsukasa; SHIOTA, Yoshihito; YOSHIZAWA, Kazunari
- 3H7-18** Evaluation of Hydrogen Isotope Adsorption Based on Quantum Effect in Nanoporous Metal Complex (Sch. Eng., Nagoya Univ.) ○NEGITA, Kohei; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 3H7-19** Study on Structural Transformation and Adsorption Heats upon CO₂ Adsorption in Flexible Nanoporous Metal Complexes (Grad. Sch. Eng., Nagoya Univ.) ○KODERA, Yuta; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 3H7-20[#]** Preparation of Cu Based MOF Membrane by Layer-by-layer Seeding Method for Gas Separations (Grad. Sch. Eng., Nagoya Univ.) ○WANG, Xiaoguang; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro

Tuesday, March 24, PM

- Chair: TAKASHIMA, Yohei (13 : 30~14 : 30)
- * 13:20-13:30: interval for laptop PC connection.(3H7-28, 3H7-29, 3H7-31, 3H7-32, 3H7-33)
- 3H7-28** Selective Adsorption of Trace Amount of Sulfur Containing Molecules Using Nanoporous Metal Complexes with Open Metal Sites (Grad. Sch. Eng., Nagoya Univ.; Panasonic Corp.) ○YONEZU, Akira; MORITA, Masashi; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 3H7-29[#]** Realization of 'Printable' Highly Oriented Crystalline Metal-Organic Framework Thin Film (Fac. Sci., TUS) ○HARAGUCHI, Tomoyuki; MORIWAKI, Ryoji; NAGAI, Izumi; AKITSU, Takashi
- 3H7-31** Nickel(II) and copper(II) complexes exhibiting 3d-2p heterospin coupling associated with an angular torsion change in coordination bonds (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○KYODEN, Yukiya; ISHIDA, Takayuki
- 3H7-32** Nuclear Spin Conversion of Hydrogen Using Large-pore Nanoporous Metal Complexes with Open Metal Sites (Sch. Eng., Nagoya Univ.) ○SHICHINO, Masanori; KUSAKA, Shinpei; HORI, Akihiro; MATSUDA, Ryotaro
- 3H7-33** A Luminochromic Trinuclear Copper(I) Complex in the Crystalline State Responsive to Various Organic Vapors (Grad. Sch. Eng., Osaka Univ.; Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Sch. Med., Jichi Med. Univ.; KEK; MPRC, Kobe Univ.; UNISOKU Co., Ltd.; Sch. Eng., Nihon Univ.) ○ARAHORI, Ikuya; SUENOBU, Tomoyoshi; SUZUKI, Mitsuharu; NAKAYAMA, Ken-ichi; TOHNAI, Norimitsu; KASAI, Hidetaka; NISHIBORI, Eiji; ICHIYANAGI, Kohei; SATOH-TOMITA, Ayana; NOZAWA, Syunsuke; TACHIKAWA, Takashi; NAKAGAWA, Tatsu; KATO, Ryuzi

- Chair: ISHIDA, Takayuki (14 : 40~15 : 40)
- * 14:30-14:40: interval for laptop PC connection.(3H7-35, 3H7-37, 3H7-39, 3H7-40)
- 3H7-35[#]** Magnetic relaxation mechanisms of an $S=1/2$ four-coordinate mononuclear Cu(II) complex with bisisoidole bidentate ligands (Grad. Sch. Sci., Osaka Univ.) ○ISHIZAKI, Toshiharu; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto

Au

- 3H7-37[#]** Disulfide-bond-driven film formation of Au₂₅ cluster (Grad. Sch. Env. Sci., Hokkaido Univ.) ○SAITO, Yuki; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 3H7-39[#]** Synthesis and properties of Au₆ clusters protected by substituted-phenylene-bridged diphosphines (Grad. Sch. Env. Sci., Hokkaido Univ.) ○RUAN, Linxiao; SAITO, Yuki; WANG, Shipeng; IWASAKI, Mitsuhiro; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 3H7-40** Optical properties of sub-nano gold clusters in the presence of anionic species (Grad. Sch. Env. Sci., Hokkaido Univ.) ○SAKAI, Maki; SHICHIBU, Yukatsu; KONISHI, Katsuaki

- Chair: MATSUMOTO, Takahiro (15 : 50~16 : 50)
- * 15:40-15:50: interval for laptop PC connection.(3H7-42, 3H7-43, 3H7-44, 3H7-45, 3H7-46, 3H7-47)
- 3H7-42** Co-crystallization of a Neutral Au^I₆Pd^{II}₃ Complex with H₂SiF₆ (- Grad. Sch. Sci., Osaka Univ.) ○NOMURA, Jinya; KOJIMA, Tatsuhiko; KUWAMURA, Naoto; YOSHINARI, Nobuto; KONNO, Takumi
- 3H7-43** Synthesis of N-alkyl substituted π -extended helicene metal complexes (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○URA, Masaki; HIROTO, Satoru
- 3H7-44** Effects of Counter Anions on Luminescent Property of Cationic Bis(cyclohexyl isocyanide)gold(I) Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○HISHIKAWA, Daiki; SUZUKI, Shuichi; NAOTA, Takeshi

Rh

- 3H7-45** Selective Synthesis of Heterobimetallic Rhodium-Gold Complexes from an Oxo-bridged Multi-metallic Rhodium Complex and Mononuclear

- Gold Complexes (Sch. Eng. Sci., Osaka Univ.) ○MORI, Haruna; TSURUGI, Hayato; MASHIMA, Kazushi
- 3H7-46** Reactivity of framework with substitution-labile sites constructed from Rh dinuclear complex (Grad. Sch. Eng., Osaka Univ.) ○FUJISAWA, Shinki; IWAMI, Hikaru; KACHI, Mami; FUJISAWA, Mayu; SAGA, Yutaka; KONDO, Mio; MASAOKA, Shigeyuki
- 3H7-47** C(sp²)-H Halogenation by Rhodium(III) Complex Bearing a Redox-active Tetradentate Planar Ligand (Grad. Sch. Eng., Osaka Univ.) ○FUJITA, Daiki; SUGIMOTO, Hideki; ITOH, Shinobu

Ir

- Chair: SUGIMOTO, Hideki (17 : 00~18 : 00)
- * 16:50-17:00: interval for laptop PC connection.(3H7-49, 3H7-51, 3H7-52, 3H7-53)
- 3H7-49[#]** Computational Study on the Light-Induced Oxidation of Iridium-Aqua Complex to Iridium-Oxo Complex over WO₃(001) surface (IMCE, Kyushu Univ.; Grad. Sch. Eng., Kyushu Univ.; I²CNER, Kyushu Univ.; sMol, Kyushu Univ.) ○IKEDA, Kei; MUHAMMAD HARIS, Mahyuddin; SHIOTA, Yoshihito; ALEKSANDAR, Staykov; MATSUMOTO, Takahiro; OGO, Seiji; YOSHIZAWA, Kazunari
- 3H7-51** Syntheses of Polynuclear Complexes from Reactions between Ir(III) Mononuclear Complexes Having N,S-chelate Ligands and Tin Ions (Kobe City Coll. Technol.; Fac. Sci., Okayama Univ.) ○ANTOKU, Nanami; NAMIOKA, Atsushi; SUZUKI, Takayoshi; MIYASHITA, Yoshitaro
- 3H7-52** Self-assembly of visible-light responsive multinuclear Ir hollow complexes toward effective photoreactions (Grad. Sch. Eng., The Univ. of Tokyo) ○SUNOHARA, Haruka; KOYAMADA, Kenta; TAKEZAWA, Hiroki; FUJITA, Makoto
- 3H7-53*** Catalytic Formate Decomposition and Substrate Oxidation by Hetero-Dinuclear Iridium-Metal Complexes in Water (IRC3, AIST) ○SHIMOYAMA, Yoshihiro; HONG, Dachao; OHGOMORI, Yuji; KON, Yoshihiro

Wednesday, March 25, AM

Materials Chemistry (Fe, Zn)

- Chair: KUME, Shoko (9 : 00 ~ 10 : 00)
- * 8:50-9:00: interval for laptop PC connection.(4H7-01, 4H7-02, 4H7-04, 4H7-06)
- 4H7-01** Modification of insulator surfaces with redox-active self-assembled monolayers and application to organic field-effect transistors (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○IKEDA, Takashi; TAHARA, Keishiro; KADOYA, Tomofumi; ASHIHARA, Yuya; OZAWA, Yoshiki; ABE, Masaaki
- 4H7-02[#]** Oxygen Reduction Reaction Activity of Fe/N/C Catalysts Prepared by Pyrolysis of Fe Complexes Containing 1,12-Diazatriphenylene Moieties as a Ligand Structure (Grad. Sch. Eng., Osaka Univ.) ○MATSUMOTO, Koki; TAKAGI, Yosuke; ONODA, Akira; HAYASHI, Takashi
- 4H7-04[#]** Hyperpolarization of metal-organic frameworks by photoexcited triplet electrons and its applications (Grad. Sch. Eng., Kyushu Univ.) ○FUJIWARA, Saiya; KOUNO, Hironori; TATEISHI, Kenichiro; UESAKA, Tomohiro; IDETA, Keiko; KIMIZUKA, Nobuo; YANAI, Nobuhiro
- 4H7-06** Polarized radical formation based on the orientation-controlled assembly of acene derivatives in metal-organic frameworks (Grad. Sch. Eng., Kyushu Univ.; CMS, Kyushu Univ.; PRESTO, JST; RIKEN Nishina Center for Accelerator-Based Science) ○ORIHASHI, Kana; FUJIWARA, Saiya; TATEISHI, Kenichiro; UESAKA, Tomohiro; KIMIZUKA, Nobuo; YANAI, Nobuhiro

Materials Chemistry (Mg, Ga, Ru, Pd, Sn)

- Chair: KEISHIRO, Tahara (10 : 10~11 : 10)
- * 10:00-10:10: interval for laptop PC connection.(4H7-08, 4H7-09, 4H7-10, 4H7-11, 4H7-12, 4H7-13)
- 4H7-08** Synthesis and Ionic Conductivity of a Metal-Organic Framework Including Magnesium Salts inside the Pores. (Fac. Sci., TUS) ○YOSHIDA, Yuto; YAMADA, Teppei; SADAKEYO, Masaaki
- 4H7-09** Photocatalytic reaction of directly linked corrole complex dimers at pyrrole β position (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○IRISAWA, Michie; ISHITOBI, Tomoya; NISHIGUCHI, Masatoshi; YAMAGUCHI, Maki; FUJIMURA, Takuya; SASAI, Ryo; IKEUE, Takahisa
- 4H7-10[#]** Single-molecule conductance study of organometallic molecular wires with long-legged ligands (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○TANAKA, Yuya; BAE, Yeana; FUJII, Shintaro; AKITA, Munetaka
- 4H7-11** Design and synthesis of organometallic molecular wires with long-legged ligands having coordination sites to electrodes (Lab. Chem. Life Sci., Tokyo Tech.; Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OGASAWARA, Fumiya; TANAKA, Yuya; AKITA, Munetaka
- 4H7-12** Singlet oxygen generation abilities of phthalocyanine metal complexes peripherally introduced with cationized groups (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○NISHIGUCHI, Masatoshi; FUJIMURA, Takuya; SASAI, Ryo; IKEUE, Takahisa

4H7-13 Template synthesis of noble metal-tin alloy sub-nanoparticles using dendrimers and investigation of their properties. (Lab. Chem. Life Sci., Tokyo Tech.) ○YOSHIDA, Nozomi; TSUKAMOTO, Takamasa; KAMBE, Tetsuya; IMAOKA, Takane; YAMAMOTO, Kimihisa

Materials Chemistry (Ni, Cu)

Chair: TANAKA, Yuya (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(4H7-15, 4H7-17, 4H7-18)
4H7-15** One-Dimensional Anhydrous Proton Conducting Channel Formation in a Ni(II)-Based Metallo-supramolecular Polymer and Imidazole System (Pol. Mater. Unit, NIMS) ○YEMINENI, Narayana; HIGUCHI, Masayoshi
4H7-17 Syntheses and functional evaluation of metal phthalocyanines with various substituents. (Grad. Sch. Sci., Eng., Saitama Univ.) ○MIZUNO, Toyoharu; ISHIMARU, Yoshihiro
4H7-18** Enhanced hydrocarbon production on Cu electrode by on-surface organic modification (Grad. Sch. Sci., Hiroshima Univ.) ○KUME, Shoko; IGARASHI, Ryota

Room H8

Lecture Hall Bldg. K609

Organic Chemistry -Reaction and Synthesis- Organometallic Compounds

Sunday, March 22, AM

Ir

Chair: IWAI, Tomohiro (9 : 00 ~10 : 10)

* 8:50-9:00: interval for laptop PC connection.(1H8-01, 1H8-02, 1H8-03, 1H8-04, 1H8-05, 1H8-06, 1H8-07)
1H8-01 Iridium-Catalyzed Tandem CH Transformations 1: Synthesis of 2-Methylbenzofurans through Cyclization of Ethyl 2-Methylphenyl Ethers (Grad. Sch. Eng., Kyoto Univ.) ○YAGI, Kaito; OHMURA, Toshimichi; SUGINOME, Michinori
1H8-02 Iridium-Catalyzed Tandem CH Transformations 2: Synthesis of 2,3-Dihydrobenzofuran Derivatives through Cyclization of Phenyl 2-Siloxypropyl Ethers (Grad. Sch. Eng., Kyoto Univ.) ○KUSAKA, Satoshi; OHMURA, Toshimichi; SUGINOME, Michinori
1H8-03 Iridium-Catalyzed Tandem CH Transformations 3: Cross-Coupling of Saturated Cyclic Ethers and Amines with Norbornene (Grad. Sch. Eng., Kyoto Univ.) ○OHTANI, Naoki; OHMURA, Toshimichi; SUGINOME, Michinori
1H8-04 Iridium-Catalyzed [2+2+2] Cycloaddition of Bibenzothiofen-Linked Dienes with Nitriles (Coll. Sci. Eng., Aoyama Gakuin Univ.) SAWANO, Takahiro; ○SUGIURA, Ryosuke; URASAWA, Kazuki; TAKEUCHI, Ryo
1H8-05 Asymmetric Synthesis of Dihydrobenzofurans from Allyl Phenyl Carbonate Derivatives via Sequential Allylic Substitution and Intramolecular Hydroarylation (Grad. Sch. Sci., Osaka City Univ.) ○SAKAMOTO, Kana; NISHIMURA, Takahiro
1H8-06 Iridium-Catalyzed Enantioselective Addition of Benzamides to Vinyl Ethers (Grad. Sch. Sci., Osaka City Univ.) ○MURAKAMI, Kotone; NISHIMURA, Takahiro
1H8-07 Iridium-Catalyzed Stereoselective [3+2] Annulation of α -Oxocarboxylic Acids with 1,3-Dienes (Grad. Sch. Sci., Osaka City Univ.) ○YABE, Ryota; MURAKAMI, Kotone; NISHIMURA, Takahiro

Sunday, March 22, PM

Chair: KANYIVA, Stephen-kyalo (12 : 40~13 : 40)

* 12:30-12:40: interval for laptop PC connection.(1H8-23, 1H8-25, 1H8-26, 1H8-27, 1H8-28)
1H8-23** Catalytic Hydrogenation and Dehydrogenation of Heterocyclic Compounds Based on C(sp³)-H Activation (Fac. Sci., Hokkaido Univ.) ○ZHANG, Deliang; IWAI, Tomohiro; SAWAMURA, Masaya
1H8-25 Hydrogen Bond-Controlled Iridium-Catalyzed *ortho*-selective C-H Borylation of Thioanisoles (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.; Coll. Sci., Rikkyo Univ.) ○ZENG, Jialin; NAITO, Morio; TORIGOE, Takeru; YAMANAKA, Masahiro; KUNINOBU, Yoichiro
1H8-26 Site- and Enantioselective C-H Borylation of *N*-Containing 6-Membered Heterocycles by Cooperative Iridium/Chiral Lewis Acid Catalysis (Grad. Sch. Eng., Kyoto Univ.) ○SHIMAZAKI, Yuto; TAKEUCHI, Koji; NAKAO, Yoshiaki
1H8-27 Iridium-Catalyzed Asymmetric Allylation of Azaindoles via Dynamic Kinetic Asymmetric Transformation (Coll. Sci. Eng., Aoyama Gakuin Univ.) SAWANO, Takahiro; ○MATSUI, Takeshi; TAKEUCHI, Ryo
1H8-28 Iridium-Catalyzed Hydroalkylation of Simple Alkenes with Malonic Amides and Malonic Esters (Coll. Sci. Eng., Aoyama Gakuin Univ.)

SAWANO, Takahiro; ○ONO, Masaki; IWASA, Ami; TAKEUCHI, Ryo

Chair: SAWANO, Takahiro (13 : 50~15 : 00)

* 13:40-13:50: interval for laptop PC connection.(1H8-30, 1H8-32, 1H8-33, 1H8-34, 1H8-35, 1H8-36)
1H8-30** Iridium(III)-Catalyzed Direct C(sp²) and C(sp³)-H Alkynylation of 2-Acyl Imidazoles (Grad. Sch. Eng., Osaka Univ.) ○MAHATO, Sanjit Kumar; CHATANI, Naoto
1H8-32 Enantioselective Formal C-H Conjugate Addition of α , β -unsaturated Amides to Electron-Deficient Alkenes by Chiral Iridium Catalysts (Sch. Advanced Sci. Eng., Waseda Univ.) ○KOJIMA, Masafumi; ONODA, Sahoko; KANYIVA, Kyalo Stephen; SHIBATA, Takanori

Pt

1H8-33* Platinum-Catalyzed *anti*-Markovnikov Hydrochlorination of Terminal Alkynes (Grad. Sch. Sci., Eng., Saitama Univ.) ○NISHIHARA, Hiroki; MIURA, Katsukiyo; KINOSHITA, Hidenori
1H8-34 Platinum-Catalyzed *anti*-Markovnikov Hydrochlorination of Propargylic Alcohols (Grad. Sch. Sci., Eng., Saitama Univ.) ○TOMIYAMA, Ryota; MIURA, Katsukiyo; KINOSHITA, Hidenori
1H8-35 Platinum-Catalyzed Hydrohalogenation of Internal Alkynes (Grad. Sch. Sci., Eng., Saitama Univ.) ○NAKASHIMA, Satsuki; MIURA, Katsukiyo; KINOSHITA, Hidenori
1H8-36 Enantioselective Synthesis of Azepine-Fused Planar-Chiral Ferrocenes by Pt-Catalyzed Cycloisomerization (Sch. Advanced Sci. Eng., Waseda Univ.) ○OKAMURA, Moeka; ITO, Mamoru; KANYIVA, Kyalo Stephen; SHIBATA, Takanori

Chair: OKAMOTO, Kazuhiro (15 : 10~16 : 20)

* 15:00-15:10: interval for laptop PC connection.(1H8-38, 1H8-39, 1H8-40, 1H8-41, 1H8-42, 1H8-44)
1H8-38 Platinum-Catalyzed Dearomative Aromatic Ene Reaction (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○OUCHI, Seiya; KOSHIKAWA, Takumi; TANAKA, Ken
1H8-39 Platinum-Silylene Complex-Catalyzed Cyclodimerization of Diaryl Alkynes via Carbon-Hydrogen Bond Cleavage (Grad. Sch. Eng., Osaka Univ.) ○YOSHIDA, Tomoki; OTA, Masaya; KATO, Tsuyoshi; TOBISU, Mamoru
1H8-40 Synthesis of Carboxylic Acid Amides by Platinum Complex-Catalyzed Reaction of Allylic Halides and Formamides without Carbon Monoxide (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Nobuyuki; KIMURA, Yu; KONDO, Teruyuki

Ce

1H8-41 Cerium(IV) Carboxylate Catalyzed Lactonization of 2-Alkylbenzoic Acids via Intramolecular C-H/O-H Oxidative Coupling (Grad. Sch. Eng. Sci., Osaka Univ.) ○TAMAKI, Sota; SHIRASE, Satoru; TSURUGI, Hayato; MASHIMA, Kazushi

Si

1H8-42* Development of Novel Synthetic Method for Trialkylsilylboranes (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○SHISHIDO, Ryosuke; UESUGI, Minami; KUBOTA, Koji; ITO, Hajime
1H8-44 Zinc/Indium-Lewis-Acid-Catalyzed Dehydrogenative Silylation/Hydroarylation Relay Reaction of Terminal Alkynes (Sch. Sci. Eng., Meiji Univ.) ○TANI, Tomohiro; TANABE, Mikio; SOHMA, Yudai; TSUCHIMOTO, Teruhisa

Chair: TORIUMI, Naoyuki (16 : 30~17 : 30)

* 16:20-16:30: interval for laptop PC connection.(1H8-46, 1H8-47, 1H8-48, 1H8-49, 1H8-50, 1H8-51)
1H8-46 Development of 7-Membered Dialkoxysilyl Group and its Application (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SAITO, Hayate; SHIMOKAWA, Jun; YORIMITSU, Hideki
1H8-47 Regioselective Addition of Silyllithiums to Propargyl Amines (Dep. Chem., Sch. Sci., Kyoto Univ.) ○SATO, Tomohiko; KARAD, Somnath; SHIMOKAWA, Jun; YORIMITSU, Hideki

Cu

1H8-48 Development of disilanolate as a new silylating reagent (Dep. Chem., Sch. Sci., Kyoto Univ.) ○YAMAGISHI, Hiroki; SHIMOKAWA, Jun; YORIMITSU, Hideki
1H8-49 Cu-catalyzed Electrophilic Amination of trialkoxyarylsilane (Dep. Chem., Sch. Sci., Kyoto Univ.) ○HITOSHIO, Kenshiro; SAITO, Hayate; SHIMOKAWA, Jun; YORIMITSU, Hideki
1H8-50 Copper-Catalyzed Sila-acylation of Allenes Using Esters and a Silylborane (Grad. Sch. Eng., Kyoto Univ.) ○SUDA, Katsushi; TSUJI, Yasushi; FUJIHARA, Tetsuaki
1H8-51 Copper Catalyzed C-H Amination of Amide-Substituted Ferrocenes (Fac. Sci. Eng., Chuo Univ.) ○HORIKAWA, Nao; SUZUKI, Kouta; KANEMOTO, Kazuya; FUKUZAWA, Shin-ichi

Chair: KANEMOTO, Kazuya (17 : 40~18 : 50)

- * 17:30-17:40: interval for laptop PC connection.(1H8-53, 1H8-55, 1H8-56, 1H8-57, 1H8-58, 1H8-59)
- 1H8-53[#]** Copper-Catalyzed Radical Amination with *N*-Fluorobenzenesulfonamide (RIIS, Okayama Univ.) ○IWASAKI, Masayuki; NONAKA, Kosei; IKINAGA, Yuka; NISHIHARA, Yasushi
- 1H8-55** Copper-Catalyzed Intermolecular Coupling between Acylsilanes and *N*-Alkylamines under Photoirradiation Conditions (Fac. Sci., Gakushuin Univ.) ○ISHINO, Tomoki; NAKAYAMA, Hiromi; HAYASHI, Daiki; ISHIDA, Kento; KUSAMA, Hiroyuki
- 1H8-56** Generation and Reactions of Copper-Carbene Complex Intermediate Utilizing Photoisomerization of Acylsilanes (Fac. Sci., Gakushuin Univ.) ○TAKEUCHI, Taiichi; ISHIDA, Kento; KUSAMA, Hiroyuki
- 1H8-57[#]** Synthesis of tetrahydroquinoline with site-selective C-H bond functionalization through IH-Redox CDC reaction (Sch. Life Sci. Tech., Tokyo Tech.) ○YU, Guo; ZHANG, Xuhai; LI, Guangzhe; NAKAMURA, Hiroyuki
- 1H8-58** Cu-catalyzed Selective Three-Component Reaction of 2-Bromocarbonyls and Two Different Olefins (Fac. Eng., Yamaguchi Univ.) ○SATO, Daisuke; MATSUDA, Kyosuke; HIRATA, Goki; NISHIKATA, Takashi
- 1H8-59** Cu/Amine/Phenol Combined Catalyst System Enables Alpha-Tertiary Alkylation of ketones (Fac. Eng., Yamaguchi Univ.) ○ISHIDA, Yuto; KUROSE, Ayako; HIRATA, Goki; NISHIKATA, Takashi

Monday, March 23, AM

Ru

Chair: NAGANAWA, Yuki (9 : 00 ~10 : 10)

- * 8:50-9:00: interval for laptop PC connection.(2H8-01, 2H8-02, 2H8-03, 2H8-04, 2H8-05, 2H8-06, 2H8-07)
- 2H8-01** DMF-stabilized ruthenium nanoparticles catalyzed α -alkylation of nitriles (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○NAGATA, Tatsuki; OBORA, Yasushi
- 2H8-02** Ruthenium nanoparticles catalyzed α -alkylation reaction of amide with alcohols (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○IGUCHI, Honami; OBORA, Yasushi
- 2H8-03** Hydrosilylation of alkenes catalyzed by DMF-protected Ru nanoparticles (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○FUJISAWA, Mizuho; OBORA, Yasushi
- 2H8-04[#]** Ruthenium(II)-Catalyzed Acyloxylation of Acyl Imidazoles with Benzoic Acid (Grad. Sch. Eng., Osaka Univ.) ○WANG, Chen-an; CHATANI, Naoto
- 2H8-05** Catalytic Allylation Reaction Using Allylic Ethers Catalyzed by a Zero-valent Ruthenium Complex Bearing a Tetradentate Phosphine Ligand (Sch. Sci., Tokyo Tech.) ○WATANABE, Yuta; HIRATAKA, Yo; TAKAHASHI, Kohei; IWASAWA, Nobuharu
- 2H8-06** Ruthenium-Catalyzed ortho C-H Borylation of Phenol Derivatives (Sch. Sci., Tokyo Tech.) ○HOMMA, Yuki; FUKUDA, Kazuishi; IWASAWA, Nobuharu; TAKAYA, Jun
- 2H8-07** Ruthenium-catalyzed dehydrogenation of alcohols using carbodiimide and its kinetic analysis (Musashino Univ.) ○WATANABE, Azumi; MATSUYAMA, Mizuki; ARAI, Kanemaki; KATAKAWA, Kazuaki; SUEKI, Shunsuke; ANADA, Masahiro

Chair: TAKAHASHI, Kohei (10 : 20~11 : 30)

- * 10:10-10:20: interval for laptop PC connection.(2H8-09, 2H8-10, 2H8-11, 2H8-12, 2H8-13, 2H8-14, 2H8-15)
- 2H8-09** Highly Efficient Ruthenium-Catalyzed Addition of Disulfides to Allenes (Grad. Sch. Eng., Kyoto Univ.) ○TANAKA, Ryosuke; KIMURA, Yu; KONDO, Teruyuki
- 2H8-10** Ruthenium-Catalyzed Allylation of Thiols with Allylic Amines via Cleavage of a C-N Bond (Grad. Sch. Eng., Kyoto Univ.) ○ISHIKAWA, Yuki; KIMURA, Yu; KONDO, Teruyuki
- 2H8-11** Catalytic Synthesis of Silylated Conjugated Trienes by Cross-Dimerization and Their Applications to Cross-Coupling (BASE, Tokyo Univ. of Agri. and Technol.) ○ARATA, Eri; SAITO, Ryo; KOMINE, Nobuyuki; HIRANO, Masafumi
- 2H8-12[#]** Kinetic Resolution of Axially Chiral 1-Arylnaphthalenes through the Arene Hydrogenation with Chiral Ruthenium Catalyst (Fac. Sci., Kyushu Univ.) ○WON, Sungyong; JIN, Yushu; KUWANO, Ryoichi
- 2H8-13** Selective Hydrosilylation of Allyl Polyethylene Glycols (IRC3, AIST) ○INOMATA, Koya; NAGANAWA, Yuki; GUO, Haiqing; SATO, Kazuhiko; NAKAJIMA, Yumiko
- 2H8-14** Hydrogenation of esters catalyzed by Cp*Ru(II) complexes (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Grad. Sch. Eng., Hokkaido Univ.) ○OZAKI, Kazuma; ARAI, Noriyoshi; OHKUMA, Takeshi
- 2H8-15** Ruthenium-Catalyzed Cycloisomerization of 2-Alkynylphenylboronic Acids via 1,2-Carbon Migration (Fac. Sci., TUS) ○KONDA, Fumihito; WATANABE, Takuma; MUTOH, Yuichiro; SAITO, Shinichi

Monday, March 23, PM

Chair: MUTOH, Yuichiro (12 : 40~13 : 50)

- * 12:30-12:40: interval for laptop PC connection.(2H8-23, 2H8-24, 2H8-26,

2H8-27, 2H8-28)

- 2H8-23[#]** Ruthenium-Catalyzed Enantioselective Propargylic Reduction of Propargylic Alcohols with Hantzsch Esters (Fac. Eng., The Univ. of Tokyo) ○DING, Haowei; NAKAJIMA, Kazunari; SAKATA, Ken; NISHIBAYASHI, Yoshiaki
- 2H8-24[#]** Ruthenium-Catalyzed Enantioselective Propargylic Substitution Reactions with Phosphine Oxides (Grad. Sch. Eng., The Univ. of Tokyo) ○LIU, Shiyao; TANABE, Yoshiaki; KURIYAMA, Shogo; SAKATA, Ken; NISHIBAYASHI, Yoshiaki
- 2H8-26[#]** Degradation of β -O-4 Linkage by Cyclopentadienone Metal Complexes (Grad. Sch. Eng., The Univ. of Tokyo) ○KISHINO, Masamichi; KUSUMOTO, Shuhei; NOZAKI, Kyoko

Co

- 2H8-27** Cobalt-Catalyzed Double [2 + 2 + 2] Cycloaddition for Trimerization of α,ω -Diyne (Fac. Sci. Technol., TUS) ○NAKAMURA, Koji; NAKATSUKA, Hitoshi; OGIWARA, Yohei; SAKAI, Norio
- 2H8-28[#]** (*E*)-Selective Cross-dimerization of Terminal Alkynes Catalyzed by a Cobalt Complex with a Sterically Demanding Phenanthroline Ligand (Grad. Sch. Eng. Sci., Osaka Univ.) ○UEDA, Yohei; TSURUGI, Hayato; MASHIMA, Kazushi

Mn

Chair: ASAKO, Sobi (14 : 00~15 : 10)

- * 13:50-14:00: interval for laptop PC connection.(2H8-31, 2H8-32, 2H8-33, 2H8-35, 2H8-36)
- 2H8-31** Additive Effects of Potassium Alkoxides for Transesterification Catalyzed by Manganese Complexes (Grad. Sch. Eng. Sci., Osaka Univ.) ○AKEBI, Shin-ya; KATO, Daiki; HIRAI, Takahiro; NAGAE, Haruki; MASHIMA, Kazushi
- 2H8-32** Substrate Scope for The Esterification of Aliphatic Amides by Manganese-Potassium Catalyst (Grad. Sch. Eng. Sci., Osaka Univ.) ○KATAYAMA, Shoichiro; HIRAI, Takahiro; KATO, Daiki; MAI, Binh Khanh; NAGAE, Haruki; HIMO, Fahmi; MASHIMA, Kazushi
- 2H8-33[#]** Mechanistic study on The Esterification of Tertiary Amides Mediated by Manganese-Potassium Catalysis (Grad. Sch. Eng. Sci., Osaka Univ.) ○HIRAI, Takahiro; KATO, Daiki; MAI, Binh Khanh; KATAYAMA, Shoichiro; NAGAE, Haruki; HIMO, Fahmi; MASHIMA, Kazushi
- 2H8-35[#]** Manganese-catalyzed C(sp³)-H Bromination (Grad. Sch. Eng. Sci., Kyushu Univ.) ○SNEH, Kumar; TORIGOE, Takeru; KUNINOBU, Yoichiro

Sc

- 2H8-36[#]** Scandium-Catalyzed Diastereoselective [3+2] Annulation of Aldimines with Alkenes via sp³ C-H Activation (RIKEN CSRS) ○CONG, Xuefeng; HOU, Zhaomin

Chair: SUZUKI, Itaru (15 : 20~16 : 30)

- * 15:10-15:20: interval for laptop PC connection.(2H8-39, 2H8-41, 2H8-42, 2H8-43, 2H8-44, 2H8-45)
- 2H8-39[#]** Experimental and Theoretical Studies on Regiodivergent C-H Alkylation of Quinolines with Alkenes by Rare-Earth Catalysts (RIKEN CSRS) ○LOU, Shaojie; NISHIURA, Masayoshi; HOU, Zhaomin

Ge

- 2H8-41** Structural Determination of Allylgermanes and the Effects of the Coordination Structure on the Reactivity of Allylgermanes (Grad. Sch. Eng., Osaka Univ.) ○MINAMI, Yohei; NISHIDA, Kento; KONISHI, Akihito; YASUDA, Makoto
- 2H8-42** Group 16 Element Introduction Reactions to Germanium(II) Center of a Stable Germylene Bearing TbtCH₂ Group (ICR, Kyoto Univ.) ○YUKIMOTO, Mariko; TOKITOH, Norihiro

Al

- 2H8-43** Synthesis of Phosphino-substituted Pheox-aluminum Complexes and Their Application to Catalysts for Regioselective Cycloaddition Reaction (Grad. Sch. Eng., Osaka Univ.) NISHIMOTO, Yoshihiro; ○KIDO, Kazuki; YASUDA, Makoto

Re

- 2H8-44** Rhenium-catalyzed Selective Synthesis of Two Kinds of Products from *o*-Ethylnylphenyl Carbonyl Compounds and Electron-rich Alkenes (Sch. Sci., Tokyo Tech.) ○TAKANO, Takuto; IWASAWA, Nobuharu
- 2H8-45** Rhenium-Catalyzed Oxidative Cyclization of ω -Alkynylamides with Pyridine *N*-oxides as Oxidants Leading to Cyclic Imides (Grad. Sch. Eng., Osaka Univ.) FUKUMOTO, Yoshiya; ○MONDA, Shizuki; TAKAMI, Yasuhiro; CHATANI, Naoto

In

Chair: NAGAE, Haruki (16 : 40~17 : 40)

* 16:30-16:40: interval for laptop PC connection.(2H8-47, 2H8-49, 2H8-50, 2H8-51, 2H8-52)

2H8-47* Mechanistic study of indium-catalyzed C-F bond transformation: New synthetic strategy of fluorinated heterocycles (Grad. Sch. Eng., Osaka Univ.) ○YATA, Tetsuji; NISHIMOTO, Yoshihiro; CHIBA, Kouji; YASUDA, Makoto**2H8-49** In₃-Catalyzed Synthesis of Unprotected N-Heterocycles via the Addition of Silyl Enolates into 2*H*-azirines (Grad. Sch. Eng., Osaka Univ.) ○TAKENAKA, Yuya; SHIBATA, Ikuya; SUZUKI, Itaru

Mg

2H8-50 Catalytic Synthesis of Oxaspiro Rings by Annulation of Methylene-cyclopropanes with Benzoyl Cyanoalkenes via Intramolecular Oxa-Michael Addition of Enolates (Grad. Sch. Eng., Osaka Univ.) ○OGURA, Kazuki; SUZUKI, Itaru; SHIBATA, Ikuya

Sn

2H8-51 Base-Promoted Stannylation Substitution of Aryl Halides with Silylstananes (Grad. Sch. Eng., Hiroshima Univ.) ○HIRAOKA, Yuta; OSAKA, Itaru; YOSHIDA, Hiroto**2H8-52** Binary Remote 1,5-Asymmetric Induction from Allyl tin Reagent Containing Phosphate Ester and Its Application to Natural Product Synthesis (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○HAYAMI, Kuniyuki; NISHIGAICHI, Yutaka

Tuesday, March 24, AM

Nb

Chair: KOMEYAMA, Kimihiro (9 : 00 ~9 : 40)

* 8:50-9:00: interval for laptop PC connection.(3H8-01, 3H8-02, 3H8-03, 3H8-04)

3H8-01 Niobium catalyzed [2+2+2] cyclization reaction from alkynes and alkenes (Fac. Chem. Materials and Bioeng., Kansai Univ.; TOHO KASEI CO.,LTD.) ○SEKII, Yusaku; HATO, Wataru; ISOMURA, Yuto; UCHIDA, Akito; OBORA, Yasushi**3H8-02** Niobium catalyzed synthesis of secondary amide from alkene and nitrile (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○MIYAJIMA, Takahiro; OBORA, Yasushi

W

3H8-03 Synthesis and Reactivity of W(0) Complexes with *N*-Phosphine Oxide-Substituted Imidazolylidenes (Grad. Sch. Eng., Osaka Univ.) ○KAWAKITA, Takahiro; HOSHIMOTO, Yoichi; OGOSHI, Sensuke**3H8-04** Electrostatic Interaction-Controlled Regioselective C(sp³)-H Functionalization Using Decatungstate Photocatalyst (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○ZENG, Jialin; TORIGOE, Takeru; KUNINOBU, Yoichiro

Tuesday, March 24, PM

Pd

Chair: HOSHIMOTO, Yoichi (12 : 40~13 : 20)

* 12:30-12:40: interval for laptop PC connection.(3H8-23, 3H8-24, 3H8-25, 3H8-26)

3H8-23 Palladium-Catalyzed Reductive Transformation of Acyl Fluorides via Ligand-Selective Decarbonylation, and the Intermediate (Fac. Sci. Technol., TUS) ○HATTORI, Hiroyuki; SAKURAI, Yuka; OGIWARA, Yohei; SAKAI, Norio**3H8-24** Palladium-Catalyzed Intramolecular Cyclization of 2-Aryl-Substituted Aryl Fluorides Leading to Fluorenones (Fac. Sci. Technol., TUS) ○IKAI, Kana; SAKURAI, Yuka; OGIWARA, Yohei; SAKAI, Norio**3H8-25** Pd/Cu-Co-Catalyzed Regiodivergent Ring-Opening C-Si Bond Forming Reactions of 2-Arylaziridines with Silylborane (Grad. Sch. Eng., Osaka Univ.) ○AOKI, Shohei; SHIBUTA, Kaoru; TAKEDA, Youhei; MINAKATA, Satoshi**3H8-26** Carbon-Nitrogen Bond Formation at the δ -position through a Sequential Palladium-Catalyzed Dehydrogenation of Valeronitriles (Sch. Eng., Tokyo Univ. of Tech.) ○TANIMOTO, Seiji; UENO, Satoshi

Chair: TORIGOE, Takeru (13 : 30~14 : 10)

* 13:20-13:30: interval for laptop PC connection.(3H8-28, 3H8-29, 3H8-30, 3H8-31)

3H8-28 Palladium-Catalyzed 1,1-Addition of Bromoalkynes to Alkenes (Grad. Sch. Eng., Osaka Univ.) ANO, Yusuke; ○KAWAI, Natsuki; CHATANI, Naoto**3H8-29*** Palladium-Catalyzed [3+2] Oxidative Annulation of Aromatic

Amides with Maleimides (Grad. Sch. Eng., Osaka Univ.) ○HE, Qiyuan; CHATANI, Naoto

3H8-30 Pd-Catalyzed Dearomative Alkylation of Haloarenes using Malonates as Nucleophiles (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○MUSHA, Itsuki; KATO, Hiroki; KOMATSUDA, Masaaki; MUTO, Kei; YAMAGUCHI, Junichiro**3H8-31** Pd-Catalyzed Dearomative Alkylation of Heteroaryl Halides using Malonates as Nucleophiles (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KATO, Hiroki; MUSHA, Itsuki; KOMATSUDA, Masaaki; MUTO, Kei; YAMAGUCHI, Junichiro

Zn

Chair: TAKEDA, Youhei (16 : 00~16 : 50)

* 15:50-16:00: interval for laptop PC connection.(3H8-43, 3H8-44, 3H8-45, 3H8-46, 3H8-47)

3H8-43 Direct Transformation of Tetrafluoroethylene into Trifluorovinylzinc Reagent for Synthesis of Various Trifluorovinyl Derivatives (Grad. Sch. Eng., Osaka Univ.) ○ITO, Hideki; KIKUSHIMA, Kotaro; OHASHI, Masato; KAMURA, Ryohei; TAKEDA, Ippei; IWAMOTO, Hiroaki; OGOSHI, Sensuke**3H8-44** Synthesis and Reaction of Ambiphilic Phosphine-Zinc Compounds (Sch. Sci., Tokyo Tech.) ○FUKUDA, Kazuishi; IWASAWA, Nobuharu; TAKAYA, Jun**3H8-45** Zinc-catalyzed synthesis of acylsilanes using carboxylic acids and a silylborane (Grad. Sch. Eng., Kyoto Univ.) ○TANABE, Sae; TSUJI, Yasushi; FUJIHARA, Tetsuaki**3H8-46** MnCl₂-Mediated Preparation of Functionalized *N,N*-Disubstituted Hydroxylamines from Nitro Compounds and Organozinc Reagents (Sch. Life Sci. Tech., Tokyo Tech.) HATA, Takeshi; ○ONODA, Satoshi; SHIGETA, Masayuki; URABE, Hirokazu**3H8-47** Zinc-Catalyzed Markovnikov Selective Hydro-sulfenylation of Alkenes using Thiols (Sch. of Med., Fukushima Med. Univ.) ○TANIGUCHI, Nobukazu

Sr

Chair: KODAMA, Takuya (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(3H8-49, 3H8-50, 3H8-52)

3H8-49 The convenient synthesis of functional silicic compounds via strontium-metallacycle intermediates and their photophysical properties with the substitution effects (Fac. Integrated Arts and Sci., Tokushima Univ. Grad. Sch.) ○FUJITA, Mami; NISHIZAWA, Takahiro; OHMURA, Satoshi; UENO, Masaharu; MIYOSHI, Norikazu

Ni

3H8-50* Nickel-catalyzed asymmetric allylic alkylation of β -ketoesters via cleavage of C-N bond of allylic amines (Grad. Sch. Eng. Sci., Osaka Univ.) ○XIA, Jingzhao; KIRILLOV, Evgueni; HIGASHIDA, Kosuke; NAGAE, Haruki; ZHANG, Wanbin; CARPENTIER, Jean-françois; MASHIMA, Kazushi**3H8-52*** Enantioselective Construction of α -Chiral Silanes by Nickel-Catalyzed C(sp³)-C(sp³) Cross-Coupling (WPI-ITBM, Nagoya Univ.) ○HONG, Yi; WENBIN, Mao; MARTIN, Oestreich

Chair: ANO, Yusuke (18 : 00~18 : 50)

* 17:50-18:00: interval for laptop PC connection.(3H8-55, 3H8-56, 3H8-57, 3H8-58, 3H8-59)

3H8-55 Ni-Catalyzed Functional Group Metathesis between Aromatic Esters and Aryl Sulfides (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○KUROSAWA, Miki; ISSHIKI, Ryota; MUTO, Kei; YAMAGUCHI, Junichiro**3H8-56** Synthesis of Sulfur-Containing Polycyclic Compounds Initiated by Nickel-Catalyzed C(sp²)-S Bond Cleavage along with Consecutive Insertion of Alkynes (Sch. Advanced Sci. Eng., Waseda Univ.) ○SEKINE, Ayato; AKINO, Mika; KANYIVA, Kyalo Stephen; SHIBATA, Takanori**3H8-57** Nickel-Catalyzed Intra- and Intermolecular C-H Silylation (IMCE, Kyushu Univ.; Grad. Sch. Eng. Sci., Kyushu Univ.) ○FUJI, Kazuto; SEKINE, Kohei; KUNINOBU, Yoichiro**3H8-58** Ni/Co-catalyzed cross-coupling between alkyl tosylates and vinyl sulfonates (Grad. Sch. Eng., Hiroshima Univ.) ○KOISHI, Mikinao; MICHYUKI, Takuya; OSAKA, Itaru; KOMEYAMA, Kimihiro**3H8-59** Ni/Co-catalyzed amidation of alkyl tosylates (Grad. Sch. Eng., Hiroshima Univ.) ○MICHYUKI, Takuya; OSAKA, Itaru; KOMEYAMA, Kimihiro

Wednesday, March 25, AM

Pd

Chair: MUTO, Kei (9 : 00 ~10 : 10)

* 8:50-9:00: interval for laptop PC connection.(4H8-01, 4H8-02, 4H8-03, 4H8-04, 4H8-06)

4H8-01* Synthetic Study of α -Lipoic Acid using 7-Octenoic Acid as

- Starting Material (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGAE, Haruki; ABHJIT, Mal; TSURUGI, Hayato; SEKI, Masahiko; MASHIMA, Kazushi
- 4H8-02[#]** Clarification of the Nucleophilic Species in the Carboxylation of Aryl (Pseudo)Halides with CO₂ using Pd/Photoredox Dual Catalysts (Sch. Sci., Tokyo Tech.) ○CANER, Joaquin; SHIMOMAKI, Katsuya; MURATA, Kei; TORIUMI, Naoyuki; MARTIN, Ruben; IWASAWA, Nobuharu
- 4H8-03** Synthesis and reactions of Type B mesoionic carbene palladium complexes (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○NAKATA, Mirai; HIRASHITA, Tsunehisa
- 4H8-04[#]** Selective Synthesis of Benzophenanthrosilines through a New 1,4-Palladium Migration (Grad. Sch. Eng. Sci., Osaka Univ.) ○TSUDA, Tomohiro; KAWAKAMI, Yuka; CHOI, Seung-min; SHINTANI, Ryo
- 4H8-06[#]** Light/Palladium Promoted Benzylic Acylation and Allylation of 2-Alkylbenzophenones (Grad. Sch. Eng., Kyoto Univ.) ○MASUDA, Yusuke; MAKITA, Katsuhiko; ISHIDA, Naoki; MURAKAMI, Masahiro

Wednesday, March 25, PM

Chair: TORIUMI, Naoyuki (12 : 40~13 : 30)

- * 12:30-12:40: interval for laptop PC connection.(4H8-23, 4H8-25, 4H8-27)
- 4H8-23[#]** Xantphos-ligated Palladium Dialkyl Complex as an Effective Pre-catalyst for Cross-coupling Reactions (Grad. Sch. Eng., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○TAKAHASHI, Rina; KUBOTA, Koji; ITO, Hajime
- 4H8-25[#]** Palladium-Catalyzed Regioselective C-H Alkenylation of Allylic Alcohols by Phenanthroline-Type Bidentate Auxiliary (Grad. Sch. Eng., Osaka Univ.) ○XU, Shibo; HIRANO, Koji; MIURA, Masahiro
- 4H8-27** Pd-Catalyzed Denitrative Mizoroki-Heck Reaction (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○ASAHARA, Kotaro; MUTO, Kei; YAMAGUCHI, Junichiro

Chair: UENO, Satoshi (13 : 40~14 : 30)

- * 13:30-13:40: interval for laptop PC connection.(4H8-29, 4H8-30, 4H8-32, 4H8-33)
- 4H8-29** Arylation of Terminal Alkenes Bearing a Remote Acetoxy Group by a Pyridine-Isoxazole Palladium Catalyst (Fac. Sci. Tech., Keio Univ.) ○MUTO, Kazuma; KAKIUCHI, Fumitoshi; KOCHI, Takuya
- 4H8-30^{*}** Mono(phosphine)palladium(0)-Catalyzed Hydrosilylation of Electron-Deficient Alkenes 1,3-Dienes, and 1,3,5-Trienes (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○KOMINE, Nobuyuki; ABE, Makoto; SUDA, Ryoko; KIKUCHI, Shu; MITSUI, Tatsuo; HIRANO, Masafumi
- 4H8-32** Stereoselective Synthesis of δ -Alkynylated (Z)-Homoallylic Alcohols Using Palladium-Catalyzed Three-Component Reaction (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○SAKAMOTO, Juri; HORINO, Yoshikazu
- 4H8-33** Development of catalytic reaction for efficient synthesis of polycyclic aromatic compounds containing seven-membered ring (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; CREST, JST) ○YAMADA, Keigo; MATSUOKA, Wataru; ITO, Hideto; ITAMI, Kenichiro

Fe

Chair: HORINO, Yoshikazu (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(4H8-35, 4H8-37, 4H8-39, 4H8-40)
- 4H8-35^{*}** Regioselective Annulative π -Extension (APEX) of Aromatic Compounds via Dearomative Activation (Grad. Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.; ERATO, JST; department of chemistry, University of Illinois; CREST, JST) ○MATSUOKA, Wataru; ITO, Hideto; SARLAH, David; ITAMI, Kenichiro
- 4H8-37[#]** Iron-catalyzed C-H homocoupling of thiophene compounds (Org. Int. Res. Pro., The Univ. of Tokyo) ○DOBA, Takahiro; ILIES, Laurean; RUI, Shang; NAKAMURA, Eiichi
- 4H8-39** Iron-catalyzed Regio- and Stereoselective Substitution of 2,4-Alkadienal Acetals with Aryl Grignard Reagents (Sch. Life Sci. Tech., Tokyo Tech.) ○OGATA, Takato; MIYANAKA, Kento; SHIGETA, Masayuki; HATA, Takeshi; URABE, Hirokazu
- 4H8-40** Fe-Catalyzed Stereoconvergent tert-Alkylation of beta-Alkyl Styrenes (Fac. Eng., Yamaguchi Univ.) ○MATSUMOTO, Junki; NAKASHIMA, Yusei; HIRATA, Goki; NISHIKATA, Takashi

Chair: HASHIMOTO, Toru (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(4H8-42, 4H8-44, 4H8-45, 4H8-46)
- 4H8-42[#]** Delineating Mechanism of Iron-catalyzed C-H Amination Reaction using DFT Method (ICR, Kyoto Univ.; FIFC, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○SHARMA, Akhilesh Kumar; ISEGAWA, Miho; AOKI, Yuma; SUZUKI, Tsuyoshi; HATAKEYAMA, Takuji; TAKAYA, Hikaru; MOROKUMA, Keiji; NAKAMURA, Masaharu
- 4H8-44** A cationic iron catalyzed conjugate addition of indoles to bulky enones (Fac. Eng., Yamaguchi Univ.) ○INISHI, Tsukasa; NISHIKATA, Takashi; HIRATA, Goki
- 4H8-45[#]** Iron-Catalyzed Cross Coupling of Organoboron Reagents with Secondary Propargyl Electrophiles (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○LU, Siming; AGATA, Ryosuke; ISOZAKI, Katsuhiko

NAKAMURA, Masaharu

- 4H8-46[#]** Regio- and Stereoselective Synthesis of Urushiols by Iron-Catalyzed Cross-Coupling Reactions (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) AGATA, Ryosuke; MATSUDA, Hiroshi; ○LU, Siming; ISOZAKI, Katsuhiko; NAKAMURA, Masaharu

Room 11

Bldg. 7 7404

Environmental and Green Chemistry

Sunday, March 22, PM

Chair: AMANO, Yoshimasa (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(111-29, 111-30, 111-32, 111-34)
- 111-29** Effects of Deep Ultraviolet LED Sterilizer on Suppression of Tomato Root Rot Disease in the Nutrient Recycling Solution. (Mie Pref. Ind. Res. Inst.; Mie Pref. Agri. Res. Inst.) ○MASUYAMA, Kazuaki; TANIZAWA, Yukihiro; TOMIMURA, Tetsuya; MATSUOKA, Toshio; NISHINO, Minoru; NAKAJIMA, Kaori; NISHIMURA, Hiroshi
- 111-30^{*}** Left out to dry: a more efficient way to harvest algae biomass (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Algae Biomass and Energy System R&D Center) ○ITO, Yoshikazu; KUSUDA, Emi; NAGATA, Yuki; WATANABE, Makoto; ISDEPSKY, Andreas
- 111-32[#]** Direct One-Step Synthesis of Fully Bio-based Resin from Polysaccharide and Natural Aldehyde (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○HIROSE, Daisuke; SAMUEL, Kusuma; INA, Daiki; WADA, Naoki; TAKAHASHI, Kenji
- 111-34** Effect of Lewis acid on dehydration condensation of an amino sugar alcohol derived from chitin (Inst. for Cat., Hokkaido Univ.) ○SAGAWA, Takuya; KOBAYASHI, Hirokazu; FUKUOKA, Atsushi

Chair: MASUYAMA, Kazuaki (14 : 50~15 : 40)

- * 14:40-14:50: interval for laptop PC connection.(111-36, 111-37, 111-38, 111-39, 111-40)
- 111-36** Component Analysis and Physical Property of Extracellular Polysaccharides Extracted from Algal Blooms-Causative Species *Microcystis* (Fac. Eng., Chiba Univ.) ○YAMADA, Masamu; AMANO, Yoshimasa; MACHIDA, Motoi
- 111-37** Property of Surface Chemistry and Nitrate Adsorption from Aqueous Solution Using PAN-based Activated Carbon Fiber prepared by ZnCl₂ Activation and Consecutive Heat Treatment (Fac. Eng., Chiba Univ.) ○KINO, Kazuki; AMANO, Yoshimasa; MACHIDA, Motoi
- 111-38** Effect of Metabolites from Microorganism Present in Lake Sediment on Germination of *Anabaena* Dormant Cells (Fac. Eng., Chiba Univ.) ○SUZUKI, So; AMANO, Yoshimasa; MACHIDA, Motoi
- 111-39** Metal compounds-catalyzed synthesis of urea from ammonium carbamate and its derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAGATSUKA, Yuki; MOTOKURA, Ken; MANAKA, Yuichi
- 111-40** Trial Preparation and Estimation of the Electrode Materials for Low-cost Cells by the Use of the Poisonous Plants and the Reuse of the Activated Carbons (Sch. Sci., Tokai Univ.) ○MASAHARU, Komatsu

Monday, March 23, PM

Chair: NEGISHI, Nobuaki (13 : 40~14 : 40)

- * 13:30-13:40: interval for laptop PC connection.(211-29, 211-30, 211-31, 211-33, 211-34)
- 211-29** Development of measurement method of nitrogen oxides by the filter pack method (Grad. Sch. Human. & Sustainable Sys. Sci., Osaka Pref. Univ.) ○ODA, Takumi; TAKENAKA, Norimichi; FUJII, Yusuke
- 211-30** Measurement of atmospheric pollutants in Ho Chi Minh City with passive samplers and filter pack method (Osaka Pref. Univ.) ○TAKENAKA, Norimichi; SHIBA, Takumi; ODA, Takumi; HIEN, To Thi
- 211-31[#]** Kinetic study on gas-phase reactions of alkylperoxy radicals with NO₂ using chemical conversion method (Kyoto Univ. GSGES) ○LI, Jiaru; KOHNO, Nanase; SAKAMOTO, Yosuke; KAJII, Yoshizumi
- 211-33** Thermogram of the organic carbon included in indoor PM2.5 (Osaka City Research Center of Environmental Science) ○FUNASAKA, Kunihiro; FURUICHI, Yuko; ASAKAWA, Daichi; KANEKO, Satoshi
- 211-34** Relative Humidity Dependence of Uptake Rates of Gaseous Iodine Molecules by Soil Components (Rectangular Pulse Experiments) (AIST) ○KUTSUNA, Shuzo; KANEYASU, Naoki

Chair: TAKENAKA, Norimichi (14 : 50~15 : 50)

- * 14:40-14:50: interval for laptop PC connection.(211-36, 211-38, 211-39, 211-40, 211-41)
- 211-36[#]** Application to Heterogeneous Fenton Reaction of Fe-typed Layered Double Hydroxide (Fac. Env. Urban Eng., Kansai Univ.) ○FUKU, Kojiro; TODOROKI, Masanobu; KANAI, Honami; NISHIUCHI, Toru;

Room I2

Bldg. 7 7407

Education and History of Chemistry

Monday, March 23, AM

Chair: NAKAGAWA, Tetsuo (9 : 00 ~ 9 : 50)

* 8:50-9:00: interval for laptop PC connection.(2I2-01, 2I2-02, 2I2-03, 2I2-04, 2I2-05)

2I2-01 Esterification in column with sulfuric acid silica gel (Grad. Sch. Sci., TUS) ○MORI, Ryosuke; INOUE, Masayuki**2I2-02** Microscale experiment to synthesize azo dye from benzene with sulfuric acid silica gel (Grad. Sch. Sci., TUS) ○NAKAYAMA, Seito; INOUE, Masayuki**2I2-03** Experiments to learn about the degradation of polylactic acid (Grad. Sch. Sci., TUS) ○SEKINE, Ayaka; INOUE, Masayuki**2I2-04** Tracking the Hydrolysis Process of Resin Using Lac Insects (Fac. Sci., Toho Univ.) ○KAWAMOTO, Kengo; TSUCHIYA, Yuka; SUGIYAMA, Kazuya; WATANABE, Soichiro; IMAI, Izumi**2I2-05** Selective synthesis and photocatalytic activity of indirubin (Dept. Nat. Sci. Edu., Naruto Univ. of Edu.) ○TANAKA, Syun; HAYAFUJI, Yukitaka

Chair: INOUE, Masayuki (10 : 00 ~ 10 : 50)

* 9:50-10:00: interval for laptop PC connection.(2I2-07, 2I2-08, 2I2-09)

2I2-07 Are Solubility Values of Sodium Chloride for water Really Correct in Japanese High School Science and Chemistry Textbooks? (Kobe College) ○NAKAGAWA, Tetsuo**2I2-08** Dissemination activities for understanding SDGs using microscale experiments (Fac. Sci., Yamagata Univ.) ○KURIYAMA, Yasunao**2I2-09** CSJ Award for Merits for Chemical Education Developing the "Experiment Performance Show" Aiming to Expand the Horizons of Chemical Education (Hirakawa Municipal Takedate Elem. Sch.) ○KANANDA, Masahiko

Chair: KURIYAMA, Yasunao (11 : 00 ~ 12 : 00)

* 10:50-11:00: interval for laptop PC connection.(2I2-13)

2I2-13 CSJ Award for Chemical Education Contribution to the Collaboration between High-school and University on Chemical Education and on Popularization of Chemistry (Fac. Eng. Nagoya Inst. of Tech.) ○TAGA, Keijiro

Monday, March 23, PM

Chair: HIOKI, Hideaki (13 : 30 ~ 14 : 20)

* 13:20-13:30: interval for laptop PC connection.(2I2-28, 2I2-29, 2I2-30, 2I2-31)

2I2-28 Inquiry activities of cross-and trans-discipline with systems thinking for chemistry education in secondary science (Grad. Sch. Edu., Okayama Univ.) ○KITA, Masakazu; MIYOSHI, Mie**2I2-29** Task-based studies about Metropolitan Tokyo with Active Learning : Practice of Chemistry (TMCIT) ○IKEDA, Hiroshi; NAGAMORI, Kiyoshi; FURUKAWA, Hiroyoshi**2I2-30** Science Literacy for Liberal Arts Education in Universities - Focusing Chemistry Education- (University) ○UCHIYAMA, Hiromi; SUGIMOTO, Kousaku**2I2-31*** Visual modeling for Chemical molecule using New chemical formula (LOGES) ○SANO, Hiroshi

Chair: TAKAGI, Yumiko (14 : 30 ~ 15 : 20)

* 14:20-14:30: interval for laptop PC connection.(2I2-34, 2I2-35, 2I2-36, 2I2-38)

2I2-34 Quantification of Troubles during experiments designed for Risk Assessment Methods suitable for experimental work in laboratory (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○NEZU, Yukiko; YAMAMOTO, Hitoshi; OSHIMA, Yoshito**2I2-35** Learning program to enhance the ability of linguistic expressions utilizing science communication game (Fac. Edu., Gunma Univ.) ○KANAI, Yukiko; OHYA, Ryuji; HIOKI, Hideaki**2I2-36*** Chemical education and IoT literacy for preservation of Japanese production space (Department of Commerce, Kumamoto Gakuen Univ; Science Education Gate Assembly for Otaru; Otaru City Council; Nextday; namara farm; Otaru-city science education network) ○IWAMA, Sekai; ASahi, Fumiyoshi; TAKAHASHI, Ryu; SASAKI, Tsugane**2I2-38** Development of a curriculum based on contexts that aim to cultivate competencies in secondary education chemistry (Gifu Shotoku Gakuen University) ○TERADA, Mitsuhiro; MISU, Kota; IMAI, Izumi

Chair: IMAI, Izumi (15 : 30 ~ 16 : 20)

* 15:20-15:30: interval for laptop PC connection.(2I2-40, 2I2-42, 2I2-44)

2I2-40* Analysis with the Systematized Survey on the History of Technology:

ICHIKAWA, Kohei; IKENAGA, Naoki

2I1-38 Photo-Fenton like reaction of dye compounds with Bi-treated fluorapatite as a catalyst (Dept. Lib. Arts, Saitama Med. Univ.) ○MORIGUCHI, Takeshi; NAKAGAWA, Sohei**2I1-39** Oxidative degradation of organic compounds through Fenton reaction using Prussian blue analogues (Grad. Sch. Sci. and Eng., Kansai Univ.) ○TSUJIMOTO, Junya; FUKU, Kojiro; IKENAGA, Naoki**2I1-40*** THE POTENTIAL IMPACTS OF DISCHARGE FROM WATER RECLAMATION CENTER TO AQUATIC ECOSYSTEM (Grad. Sch. Global Env. Studies, Sophia Univ.) ○OUMER, Abdulahi; YOSHINARI, Tanaka**2I1-41** Microplastic pollution of rivers in inland areas (Fac. Life & Env. Sci., Teikyo Univ. of Sci.; Teikyo Heisei Univ.) ○NAKAYAMA, Hideyuki; KITAZAWA, Kenji; HANO, Yoshio

Chair: FUKU, Kojiro (16 : 00 ~ 16 : 50)

* 15:50-16:00: interval for laptop PC connection.(2I1-43, 2I1-45, 2I1-46, 2I1-47)

2I1-43* Purification of actual environmental water by photocatalysis (RIEMT, AIST) ○NEGISHI, Nobuaki; MIYAZAKI, Yukari; ISHII, Genki; KOURA, Setsuko; YANG, Yingnan**2I1-45** Water oxidation behavior by Ti(IV)porphyrin (Grad. Sch. Urban Env. Sci., TMU) ○OHSAKI, Yutaka; ISHIDA, Tamao; SHIMADA, Tetsuya; TAKAGI, Shinsuke; TACHIBANA, Hiroshi; INOUE, Haruo**2I1-46** Quantum chemical calculations of formic acid formation over surfaces of silicon crystals from reduction of carbon dioxide (Grad. Sch. Creative Sci. Eng., Waseda Univ.) ○INOUE, Takanori; YAMAGUCHI, Katsunori; KUNIOSHI, Nilson**2I1-47*** Photocatalytic dechlorination of pentachlorophenol using vitamin B₁₂ crystal loaded membrane (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○ITO, Ryotaro; TAKAHASHI, Yukiko

Resources Utilization Chemistry

Tuesday, March 24, AM

Utilization of natural resources

Chair: KUBO, Takaya (9 : 40 ~ 11 : 00)

* 9:30-9:40: interval for laptop PC connection.(3I1-05, 3I1-06, 3I1-07, 3I1-08, 3I1-09, 3I1-10, 3I1-11)

3I1-05 Development of Solid Acid Catalyst with Composite Structure (BASE, Tokyo Univ. of Agri. and Technol.) ○SUZUKI, Yuto; QIAN, Eika**3I1-06** Depolymerization of lignin in ionic liquid by use of solid acid catalyst (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○NAKABAYASHI, Manaka; WANG, Xiuhui; QIAN, Eika**3I1-07** Study on highly-efficient manufacturing method of HMF using ionic liquid and solid acid catalyst (BASE, Tokyo Univ. of Agri. and Technol.) ○KANEDA, Hiroaki; QIAN, Eika**3I1-08*** Catalytic Wood Molecular Transformation (1) Oxidative Resolution of Wood Plant Cell Walls with Organoacid Catalyst (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.; IAE, Kyoto Univ.; RISH, Kyoto Univ.) ○WANG, Jun; NAKAMURA, Yuki; JEON, Jaeyoung; LU, Siming; KOBAYASHI, Naoko; KONDO, Keiko; NISHIMURA, Hiroshi; NAGATA, Takashi; WATANABE, Takashi; KATAHIRA, Masato; ISOZAKI, Katsuhiko; NAKAMURA, Masaharu**3I1-09** Catalytic Wood Molecular Transformation (2) Direct Synthesis of Quinoxaline Derivatives from Woody Lignin (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○YAMAMOTO, Atsushi; PINCELLA, Francesca; ISOZAKI, Katsuhiko; NAKAMURA, Masaharu**3I1-10** Synthesis and Evaluation of Lignin-Binding Peptides (ICR, Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○NAKATANI, Yuya; TAKAYA, Hikaru; HAYASHI, Kazuhiro; NAKATA, Eiji; MORII, Takashi; NAKAMURA, Masaharu**3I1-11*** Effects of Pretreatment using Polyallylamine on Coloration of Wool Fibers by Maillard Reaction (ORIST) ○OHE, Takeru; YOSHIMURA, YurikaCO₂ utilization&storage

Chair: QIAN, Eika (11 : 10 ~ 12 : 00)

* 11:00-11:10: interval for laptop PC connection.(3I1-14, 3I1-15, 3I1-17)

3I1-14 Fluoride-catalyzed Transformation of Carbon Dioxide with Metallic Silicon Recovered from Solar Panel Production Process (Sch. Mater. & Chem. Tech., Tokyo Tech.) ○NAKAGAWA, Chihiro; PRAMUDITA, Ria Ayu; MOCHIZUKI, Toshimitsu; TAKATO, Hidetaka; MANAKA, Yuichi; MOTOKURA, Ken**3I1-15*** Heterogeneous Formate Organocatalysts for Transformative Reduction of Carbon Dioxide with Hydrosilanes (Sch. Mater. & Chem. Tech., Tokyo Tech.; RENRC, AIST) ○PRAMUDITA, Ria Ayu; NAKAGAWA, Chihiro; MANAKA, Yuichi; MOTOKURA, Ken**3I1-17*** Experimental investigation of CO₂ catalytic conversion under conditions of CO₂ geological storage for the development of CCS technology (GSJ, AIST) ○FUJII, Takashi; ASAHINA, Kenta; NISHIOKA, Masateru

Room I3

Bldg. 7 7504

Energy and Related Chemistry, Geo and Space Chemistry

Sunday, March 22, PM

Chair: UMEYAMA, Tomokazu (13 : 30~14 : 30)

* 13:20-13:30: interval for laptop PC connection.(113-28, 113-29, 113-30, 113-31, 113-32)

113-28 Effect of substitution on the electrical properties and defect / electronic structure of BaZrO₃ proton conductors (Fac. Sci. Technol., TUS)
 ○KADOWAKI, Shu; KITAMURA, Naoto; ISIDA, Naoya; IDEMOTO, Yasushi

113-29 Oxygen reduction reaction activity and durability of doped conductive metal oxides supported Pt catalysts (Grad. Sch. Eng., Kyoto Univ.)
 ○YAMADA, Ryosuke; ASAKURA, Hiroyuki; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro

113-30 Electrochemical evaluation of Oxygen Reduction Reaction and Oxygen Evolution Reaction of LaCo_{1-x}Mn_xO₃ (Grad. Sch. Eng., Kyoto Univ.; Grad. Sch. Eng., Kyoto Univ.) ○NAMBATA, Dai; TANAKA, Hiroyuki; ASKURA, Hiroyuki; HOSOKAWA, Saburo; TERAMURA, Kentaro; TANAKA, Tsunehiro

113-31 Oxygen reduction activity of nitrogen-doped carbon prepared from nitrogen sources (Kobe City Coll. Technol.) ○HAMADA, Yasutaka; KUGAI, Jun-ichiro

113-32** Soft actuator using thin film plasticised PVC gel by 3D printing (RISM, Shinshu Univ.) ○FURUSE, Ayumi; KANEKO, Katsumi

Chair: KITAMURA, Naoto (14 : 40~15 : 40)

* 14:30-14:40: interval for laptop PC connection.(113-35, 113-36, 113-37, 113-38, 113-39)

113-35* Prebiotic synthesis of a proto-nucleoside (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo) ○XIAO, Kejing; OKAMOTO, Akimitsu

113-36 Mechanochemical synthesis and structural analysis by using solid-state NMR of Li-B-Si-P-O based glass electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ○NAKANO, Yusuke; INOUE, Ayane; SAKUDA, Atsushi; TATSUMISAGO, Masahiro

113-37 Fabrication of Painted Diamond Electrode and Its Electrolytic Properties (Fac. Sci. Technol., TUS) ○NAKAJIMA, Haruka; KONDO, Takeshi; KANEDA, Eiichi; TOJO, Toshifumi; YUASA, Makoto

113-38 Electrolysis of organic compounds at boron-doped diamond powder-packed electrode (Fac. Sci. Technol., TUS) ○NAKAMURA, Shunsuke; KONDO, Takashi; TOJO, Toshifumi; YUASA, Makoto

113-39** Electrosynthesis of amino acids from biomass-derivable acids using titanium dioxide as a catalyst (¹³CNER, Kyushu Univ.) ○FUKUSHIMA, Takashi; YAMAUCHI, Miho

Chair: SAKUDA, Atsushi (15 : 50~16 : 50)

* 15:40-15:50: interval for laptop PC connection.(113-42, 113-43, 113-44, 113-45, 113-46, 113-47)

113-42 Non-fullerene Acceptor with Long Exciton Lifetime in Film State (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○SASADA, Daiki; UMEYAMA, Tomokazu; TAMAI, Yasunari; OHKITA, Hideo; IMAHORI, Hiroshi

113-43 Photophysical Properties of Porphyrin-linked ITIC (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) ○UMEYAMA, Tomokazu; FUJIMARU, Yui; IMAHORI, Hiroshi

113-44 Pigment Composition of Cyanobacteria Cultivated under Different Colours of Light (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○TANIMOTO, Chihiro; NAGASHIMA, Akihiro; KATSUNO, Tomoya; MAYUMI, Tomohito; MIYASHITA, Hideaki; KOBAYASHI, Masami

113-45 Pigment composition of photosystems I and II in a cyanobacterium acclimated to far-red light (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○KATSUNO, Tomoya; NAGASHIMA, Akihiro; TANIMOTO, Chihiro; MAYUMI, Tomohito; KOBAYASHI, Kotaro; SUZUKI, Iwane; MIYASHITA, Hideaki; KOBAYASHI, Masami

113-46 Design of Cathode Electrode for Effective Production of Hydrogen Peroxide from Oxygen (Fac. Env. Urban Eng., Kansai Univ.) ○SAKURAI, Shiho; KOGA, Takumi; FUKU, Kojiro; SAYAMA, Kazuhiro; IKENAGA, Naoki

113-47 Effect of Solid Electrolyte Interphase Formed on Cu Electrode on Lithium Electrodeposition/Dissolution (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○UCHINO, Yukina; NIIDA, Asako; NISHIHARA, Kahō; KONDO, Toshihiro

Chair: TAMAI, Yasunari (17 : 00~17 : 50)

* 16:50-17:00: interval for laptop PC connection.(113-49, 113-50, 113-51, 113-52)

Electronic Musical Instruments, Anticancer Drug, DVD, Clock, MIDI and Related technologies. (NMNS) ○KAMEI, Osamu

212-42* The Periodic table made from familiar items (Osaka science museum) ○ONO, Masahiro

212-44 CBT Assessment for General Education in Yamagata University: Annual Changes in Academic Ability of Chemistry (Inst. of Art and Sci., Yamagata Univ.) ○IJIMA, Takahiro; SENYO, Katsumi; YASUDA, Jun-ichiro; WATANABE, Eriko

Chair: ONO, Masahiro (16 : 30~17 : 10)

* 16:20-16:30: interval for laptop PC connection.(212-46, 212-47, 212-48)

212-46 Preparation and Educational Application of Magnetic Ionic liquids and alginate gels (Fac. Edu., Kagawa Univ.) ○KUBO, Kousuke; TAKAGI, Yumiko

212-47 A simple and safe experiment to synthesize coumarin derivatives using household microwaves and teaching materials to cultivate comprehension in the field of organic chemistry (Kobe Coll. Junior and Senior High School) ○IKEDA, Ikuhiro

212-48* A new control experiment by kitchen science - Making ginger skim milk powder pudding and ginger soybean powder pudding using the micro-scale method - (Grad. Sch. Sci., TUS) ○SATO, Yoko; HISATAKA, Ohta

Tuesday, March 24, AM

Chair: SHIMADA, Toru (9 : 30 ~10 : 30)

* 9:20-9:30: interval for laptop PC connection.(312-04, 312-05, 312-07, 312-08, 312-09)

312-04 Experimental education tools about the method for sale of plant oils, avoiding photo-oxidation (Grad. Sch. Sci., TUS) ○KOBAYASHI, Junya; INOUE, Masayuki

312-05* The lead-acid battery utilizing NaHSO₄ as the electrolyte (Grad. Sch. Sci., TUS) ○SUZUKI, Takahiro; INOUE, Masayuki

312-07 Improvement of teaching material on the electrolytic deposition of sodium metal in organic electrolytic solution -Examination of electrolytic deposition conditions- (Fac. Edu., Chiba Univ.) ○HAYASHI, Hideko; NODA, Rikuo

312-08 Study of the Methane Hydrate Synthesis for the Practice in Science Classes (Grad. Sch. Edu., Hirosaki Univ.) ○SUGIE, Shun; WADA, Yukie; FUKUOKA, Yuma; CHOUNAN, Yukiyasu

312-09# Experimental education program on humics in the environment using Ge-68/Ga-68 under legally defined level as radioactive materials (Musashi Univ.; Nedzu Chem. Lab.; NIRS; Fukushima Med. Univ.; Kitasato Univ.; RIKEN) ○MINAI, Yoshitaka; NAGATSU, Kotaro; WASHIYAMA, Koshin; NIIZAWA, Kazuhiro; NOZAKI, Tadashi

Chair: HAYASHI, Hideko (10 : 40~11 : 40)

* 10:30-10:40: interval for laptop PC connection.(312-11, 312-12, 312-14)

312-11 Comparison of color change between thymol blue and bromothymol (Fac. Edu., Hirosaki Univ.) ○SHIMADA, Toru

312-12* Preparation of variously colored thermoresponsive hydrogels (Aichi Univ. of Educ.) ○OSA, Masashi; MIZUTANI, Mayu; NIWA, Keita; YAMAMOTO, Aiko

312-14 CSJ Award for Merits for Chemical Education Chemistry Club Guidance and Contribution to Science Education in Hokkaido (Hokkaido Asahikawa Higashi High Sch.) ○TOMITA, Kazushige

Tuesday, March 24, PM

Chair: MINAI, Yoshitaka (13 : 00~13 : 50)

* 12:50-13:00: interval for laptop PC connection.(312-25, 312-27)

312-25* Learning Activities on Synthesis of Acetanilide Coupled with Multilateral aspects of Chemistry (Grad. Sch. Educ., Hiroshima Univ.) KITAZAKI, Ryutarō; ○AMIMOTO, Kiichi

312-27 CSJ Award for Merits for Chemical Education Contribution to Chemical Education through Educational Curriculum Research, Teaching Material Development, and Lesson Research (Fac. Food & Nutritional Sci., Toyo Univ.) ○GOTO, Kenichi

Chair: GOTO, Kenichi (14 : 00~15 : 00)

* 13:50-14:00: interval for laptop PC connection.(312-31)

312-31 CSJ Award for Chemical Education Contribution to Systems and Activities in Secondary and Higher Chemistry Education to Foster Research Skills (Grad. Sch. Sci., The Univ. of Tokyo) ○NISHIHARA, Hiroshi

- 113-49** *In-situ* X-ray diffraction for Na₃PS₄ solid electrolytes under air flow (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; ONAKANO, Takumi; KIMURA, Takuya; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 113-50** Local Structure of Li_{4+2x}P_{2-2x}Si_{2x}S₇ Glass Electrolytes Prepared via Mechanochemical Process (Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; OYAMAGUCHI, Hotaru; YANO, Ayako; TATSUMISAGO, Masahiro; HAYASHI, Akitoshi
- 113-51** Mechanochemical synthesis and characterization of sodium ion conductive Na₃SbS_{4-x}O_x solid electrolytes (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; OTAKAYANAGI, Takuma; TSUJI, Fumika; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 113-52*** Mechanochemical synthesis of lithium-ion conducting solid electrolytes Li₂OHX (X = Cl, Br) with anti-perovskite structure (Grad. Sch. Eng., Nagoya Univ.) OYAMAMOTO, Takayuki; SUGUMAR, Manoj Krishna; SHIBA, Hinata; MITSUKUCHI, Naohiro; MOTOYAMA, Munekazu; IRIYAMA, Yasutoshi

Monday, March 23, AM

Chair: SANO, Hikaru (10 : 20~11 : 10)

- * 10:10-10:20: interval for laptop PC connection.(213-09, 213-10, 213-11, 213-12)
- 213-09** Electrochemical characteristics of electric double layer capacitor using anion-conducting polymer electrolyte membrane (Fac. Eng., Univ. of Yamanashi; Takahata Precision Co., Ltd; Clean Energy Research Center, Univ. of Yamanashi) OUCHINO, Takafumi; YOKOTA, Naoki; MIYATAKE, Kenji; NOHARA, Shinji
- 213-10** Withdrawn
- 213-11** Development of cathode active materials with long-term cyclability using novel two-dimensional MOFs (Sch. Sci., Tohoku Univ.) OYAMAZUI, Daiki; TAKAISHI, Shinya; IGUCHI, Hiroaki; KOBAYASHI, Hiroaki; GAMBE, Yoshiyuki; HOMMA, Itaru; YAMASHITA, Masahiro
- 213-12*** Physicochemical properties of M[FTA]-[C₄C₁pyrr][FTA] ionic liquids (M = Li, Na, K, Rb, Cs) (IAE, Kyoto Univ.) OYAMAMOTO, Takayuki; NISHIJIMA, Shu; NOHIRA, Toshiyuki

Chair: IGUCHI, Hiroaki (11 : 20~12 : 30)

- * 11:10-11:20: interval for laptop PC connection.(213-15, 213-16, 213-17, 213-18)
- 213-15** Examination of chemical Na desorption method and Na⁺/Mg²⁺ exchange synthesis method of NaMn1/2Ni1/2O2 and characteristics of Mg rechargeable battery positive electrode (Fac. Sci. Technol., TUS) OMAEHARA, Daisuke; ISHIDA, Naoya; KITAMURA, Naoto; IDEMOTO, Yasushi
- 213-16** Electrochemical properties of LiCoO₂ thin films deposited on single crystal substrates by pulsed laser deposition (Sch. Eng., Nagoya Univ.) OSHIRAISHI, Ryo; NISHINAKA, Yuki; YAMAMOTO, Takayuki; MOTOYAMA, Munekazu; IRIYAMA, Yasutoshi
- 213-17** Evaluation of Insertion of Zinc Thin Film into the Interface between Lithium Metal Negative Electrode and Li₃PS₄ Glass Electrolyte (Grad. Sch. Eng., Osaka Pref. Univ.) HAYASHI, Akitoshi; INAOKA, Takeaki; OTOYAMA, Misae; SAKUDA, Atsushi; TATSUMISAGO, Masahiro
- 213-18** CSJ Award for Young Chemists Highly efficient near-infrared photoenergy conversion system employing spin inversion transition (Grad. Sch. Arts and Sci., The Univ. of Tokyo) KINOSHITA, Takumi

Monday, March 23, PM

Chair: YAMAMOTO, Takayuki (13 : 30~14 : 30)

- * 13:20-13:30: interval for laptop PC connection.(213-28, 213-29, 213-30, 213-31, 213-33)
- 213-28** Electrochemical behavior of (Fac. Eng., Shizuoka Univ.) AZUKIZAWA, Syuto; OSAGANE, Fumihito
- 213-29** Fabrication and Thermoelectric Properties of a Solution-Processed Film of π-Conjugated Nickel Complex with Core-Shell Particles (Grad. Sch. Eng., OIT; Fac. Eng., OIT; PRESTO, JST) OYAMADA, Yuto; OYAMA, Keigo; HIRAI, Tomoyasu; FUJII, Syuji; MURAOKA, Masahiro; MURATA, Michihisa
- 213-30** Utilization of amino acid and dipeptide for stable storage of hydrogen peroxide (Fac. Eng., Osaka City Univ.; OCARINA) OYAMAGUCHI, Ryota; MAETANI, Mayu; TABE, Hiroyasu; YAMADA, Yusuke
- 213-31*** Design of carbon nanotube-based non-precious metal oxygen reduction and oxygen evolution catalysts with high performance (ICNER, Kyushu Univ.) ONAKASHIMA, Naotoshi; NISHIDA, Jin; MATSUDA, Jyunko; YANG, Jun
- 213-33** Effect of separator on electrode characteristics, average, local and electronic structure in Li-ion battery cathode material 0.4Li₂MnO₃-0.6Li (Mn1/3Ni1/3Co1/3)O₂ (Fac. Sci. Technol., TUS) OFUJISHIMA, Ryota; KASAI, Noriko; ISHIDA, Naoya; KITAMURA, Naoto; IDEMOTO, Yasushi

Chair: YASUDA, Keisuke (14 : 40~15 : 40)

- * 14:30-14:40: interval for laptop PC connection.(213-35, 213-36, 213-37,

213-39)

- 213-35** Cathode properties, average and local structures of magnesium rechargeable battery cathode material synthesized by using layered double hydroxides (Fac. Sci. Technol., TUS) OKONISHI, Yoichiro; KITAMURA, Naoto; ISHIDA, Naoya; IDEMOTO, Yasushi
- 213-36** Synthesis and characterization of amorphous MoS₃ electrode for all-solid-state sodium secondary battery. (Grad. Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; OSHIROTA, Gaku; NASU, Akira; TATSUMISAGO, Masahiro; HAYASHI, Akitoshi
- 213-37*** Highly efficient overall water splitting in acid with metal nanosheets (Dep. Chem., Sch. Sci., Kyoto Univ.) OWU, Dongshuang; KUSADA, Kohei; SATORU, Yoshioka; YAMAMOTO, Tomokazu; TORIYAMA, Takaaki; MATSUMURA, Syo; CHEN, Yanna; SAKATA, Osami; INA, Toshiaki; KAWAGUCHI, Shogo; KUBOTA, Yoshiki; KOBAYASHI, Hirokazu; KITAGAWA, Hiroshi
- 213-39*** Enhanced electrochemical CO₂ reduction selectivity by biomimetic surface based self-assembled polymer microparticles to electrode (Toyota Central R&D Labs., Inc.) OSAKAMOTO, Naonari; ARAI, Takeo

Chair: YAMAMOTO, Takayuki (15 : 50~16 : 40)

- * 15:40-15:50: interval for laptop PC connection.(213-42, 213-43, 213-45)
- 213-42** Structural analysis of 80Li₂S · 20LiI solid solution positive electrode for all-solid-state batteries (Grad. Sch. Eng., Osaka Pref. Univ.) SAKUDA, Atsushi; OFUJITA, Yushi; ANDO, Taka; KISHI, Takuma; HAKARI, Takashi; DEGUCHI, Minako; TATSUMISAGO, Masahiro; HAYASHI, Akitoshi
- 213-43*** Extended Viologen Derivatives as Anode Materials for Molecular Ion Battery (RIECEN, AIST) OKATO, Minami; SANO, Hikaru; YAO, Masaru
- 213-45*** Crystallographic Change of 2,5-Dimethoxy-1,4-benzoquinone as Active Material during Charge and Discharge (RIECEN, AIST) OSANO, Hikaru; KATO, Minami; TAKEICHI, Nobuhiko; YAO, Masaru; SHIKANO, Masahiro; KIYOBAYASHI, Tetsu; KUWABATA, Susumu; MATSUMOTO, Hajime

Chair: ISHIDA, Naoya (16 : 50~17 : 40)

- * 16:40-16:50: interval for laptop PC connection.(213-48, 213-49, 213-50, 213-51, 213-52)
- 213-48** Production of useful resources from CO₂ by combining atmospheric pressure plasma jet and UV (Fac. Sci. Technol., TUS) OMARUTA, Akihiro; ISHII, Junki; OKAZAKI, Akihiro; TERASHIMA, Chiaki; SUZUKI, Norihiro; YUASA, Makoto; KONDO, Takeshi; FUJISHIMA, Akira
- 213-49** Development of liquid fertilizer with germination promotion effect by solution plasma treatment (Fac. Sci. Technol., TUS) OMIZOI, Ken; MIZOI, Ken; SUZUKI, Norihiro; KONDO, Takeshi; YUASA, Makoto; TERASHIMA, Chiaki; FUJISHIMA, Akira
- 213-50** Enlargement of Diamond Film Synthesized by using In-liquid Microwave Plasma CVD (Fac. Sci. Technol., TUS) OTOMINAGA, Yusuke; UTIDA, Akihiro; TERASHIMA, Chiaki; UETSUKA, Hiroshi; SUZUKI, Norihiro; KONDO, Takeshi; YUASA, Makoto; FUJISHIMA, Akira
- 213-51** Control of wettability toward bag-type culture technology in a microgravity (Fac. Sci. Technol., TUS) OFUJII, Yuta; TERASHIMA, Chiaki; SUZUKI, Norihiro; YUASA, Makoto; KONDO, Takeshi; FUJISHIMA, Akira
- 213-52** Mechanistic study of organic compound degradation by atmospheric pressure plasma using flow-ESR system. (KIT) OSAKURAI, Yasuhiro; YAMAMOTO, Naoko; YABUTA, Yuki; KAMEI, Ryuichiro; MIYAKE, Yusuke; KANAORI, Kenji; TAJIMA, Kunihiko

Tuesday, March 24, AM

Chair: YAMAZAKI, Yasuomi (9 : 00 ~ 10 : 00)

- * 8:50-9:00: interval for laptop PC connection.(313-01, 313-02, 313-03, 313-05)
- 313-01** Effect of Ligand Structures of Copper Redox Shuttles on Photovoltaic Performance of Dye-Sensitized Solar Cells (Grad. Sch. Eng., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) OHIGASHINO, Tomohiro; HIYAMA, Hitomi; IMAHORI, Hiroshi
- 313-02** Standardization of Perovskite Films Deposition Process by in-situ Observation (Grad. Sch. Life Sci. Sys. Eng., KIT) OHIROTANI, Daisuke; HAMADA, Kengo; AKMAL, Kamarudine; QING, Shen; TOYODA, Taro; HAYASE, Shuzi
- 313-03*** Design and Synthesis of novel NIR dyes with phosphonic acid based anchoring groups for dye-sensitized solar cells (Grad. Sch. Life Sci. Sys. Eng., KIT) OVATS, Ajendra Kumar; PANDEY, Shyam Sudhir
- 313-05*** Enhancement of PbS quantum dot solar cell performance with surface passivated ZnO nanowires (RCAST, The Univ. of Tokyo; Grad. Sch. Arts and Sci., The Univ. of Tokyo) OWANG, Haibin; GAGLIARDI, César; NAKAZAKI, Jotaro; KUBO, Takaya; SEGAWA, Hiroshi

Chair: SAITO, Kenji (10 : 10~11 : 10)

- * 10:00-10:10: interval for laptop PC connection.(313-08, 313-09, 313-10, 313-12)

- 313-08[#]** Solution-processed AgBiS₂ Nanocrystal / ZnO Nanowire Heterojunction Solar Cells (Grad. Sch. Eng., The Univ. of Tokyo; RCAST, The Univ. of Tokyo; Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○XIAO, Yun; WANG, Haibin; SHIBAYAMA, Naoyuki; KUBO, Takaya; SEGAWA, Hiroshi
- 313-09** Photocatalytic function induced by self-assembly of xanthenes dyes (Grad. Sch. Eng., Osaka Univ.) ○TANI, Youhei; SHIGEMITSU, Hajime; KIDA, Toshiyuki
- 313-10*** Li@C60-C60 hybrid n-type semiconductor for perovskite solar cells (Tohoku Univ.) ○UENO, Hiroshi; JEON, Il; LIN, Hao-sheng; THOTE, Abhishek; NAKAGAWA, Takafumi; OKADA, Hiroshi; IZAWA, Seiichiro; HIRAMOTO, Masahiro; DAIGUJI, Hirofumi; MARUYAMA, Shigeo; MATSUO, Yutaka
- 313-12^{**}** Photocatalytic CO₂ Reduction Using Metal Complexes in Various Ionic Liquids (Fac. Sci. and Technol., Seikei Univ.) ○YAMAZAKI, Yasuomi; ASAI, Yoshiyuki; KATSURAGI, Haruka; KITA, Kazuki; TSUBOMURA, Taro

Chair: SHIGEMITSU, Hajime (11 : 20~12 : 10)

* 11:10-11:20: interval for laptop PC connection.(313-15, 313-16, 313-17, 313-18)

- 313-15** Facile preparation of BiVO₄ photoanodes for efficient visible-light driven water oxidation (Grad. Sch. Sci. and Technol., Niigata Univ.) ○EO, Tatsuya; SATO, Taisei; MOHAMED, Eman; TSUBONOUCHI, Yuta; ZAHRAN, Zaki; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 313-16** Visible light-driven water oxidation on α-Fe₂O₃ photoanodes prepared from Fe(II)-complex precursors (Grad. Sch. Sci. and Technol., Niigata Univ.) ○KATSUKI, Tomohiro; SATO, Taisei; MOHAMED, Eman; TSUBONOUCHI, Yuta; ZAHRAN, Zaki; SAITO, Kenji; YUI, Tatsuto; YAGI, Masayuki
- 313-17** Modal strong coupling using Au/Ag alloy nanoparticles and its application for photooxidative reaction (RIES, Hokkaido Univ.) ○SUGANAMI, Yoshiki; OSHIKIRI, Tomoya; SHI, Xu; SUN, Quan; MISAHA, Hiroaki
- 313-18^{**}** Photoelectrochemical Redeposition of Gold on Gold Nanoparticles and its Photoelectrochemical Performance under Model Strong Coupling Conditions (RIES, Hokkaido Univ.) ○CAO, Yanfeng; SHI, Xu; OSHIKIRI, Tomoya; MISAHA, Hiroaki

Room P

Morito Memorial Gymnasium Arena

Sunday, March 22, AM

(10 : 00~11 : 30)

Education and History of Chemistry

- 1PA-001** Experimental teaching material about separation of iodine utilizing Iron(III) sulfate (Grad. Sch. Sci., TUS) ○YOTSUMOTO, Kazuki; INOUE, Masayuki
- 1PA-002** Esterification with sulfuric acid silica gel by batch method (Fac. Sci., TUS) ○OGASAWARA, Chihiro; INOUE, Masayuki
- 1PA-003** The development and application of a card game in the field of organic chemistry: the investigation of education effect by the playing game (Grad. Sch. Sci. Tech., Nihon Univ.) ○ABE, Rina; ITOH, Ken-ichi; MATSUURA, Honoka; WATABE, Keita; AKIMOTO, Yuta; ANDO, Aki
- 1PA-004** The development of educational games for studying organic or inorganic chemistry (Coll. Sci. Tech., Nihon Univ.) ○ITO, Kenichi; ABE, Rina; ITO, Mizuki; TAKEUCHI, Rina; KAMIJO, Haruo; TAKADA, Masako
- 1PA-005** Repeatable pH Testing Tool Using anthocyanin pigments for detection of multiple pH regions (Fac. Edu. Culture, Univ. of Miyazaki) KUROKI, Chie; TANAKA, Tomoko; ○ARII, Hidekazu
- 1PA-006[#]** Development of an Electrolyte Membrane for Fuel Cell Teaching Materials Prepared by Adding Sulfosuccinic Acid to Polyvinyl Alcohol (Fac. of Edu., Tokyo Gakugei Univ.) ○HASUO, Shintaro; IKUO, Akira; OGAWA, Haruo
- 1PA-007** Development of Experimental Methods Using Optically Active Limonene (Hyogo Univ. of Teacher Educ.; NIT, Niihama College) ○YAMAGUCHI, Tadatsugu; NAKAJIMA, Syuhei; TAKAMI, Shizuka
- 1PA-008** A safe and easy experiment to measure natural radiation using charcoal filter and underground water 2 (Tokyo Gakugei Univ.) ○ONISHI, Kazuko; OKADA, Shiori; KAMATA, Masahiro
- 1PA-009** Development of a teaching aid for a simple contact angle measurement method using resin on lac insects (Fac. Sci., Toho Univ.) ○TSUCHIYA, Yuka; KAWAMOTO, Kengo; SUGIYAMA, Kazuya; WATANABE, Soichiro; IMAI, Izumi
- 1PA-010[#]** Preparation of Magnetic Ionic liquids for Educational Application (Fac. Edu., Kagawa Univ.) ○SUGIKAWA, Tomoya; TAKAGI, Yumiko
- 1PA-011** Water-Absorbing Material Made of Gypsum and Diatomaceous

Earth (NIT, Fukushima College) ○HAGIRI, Masahide; HONDA, Kazufumi

- 1PA-012** Development of the polymer chemistry experiment teaching materials using the UV-curable resin. (Fac. Sports & Health Sci., Daito Bunka Univ.) ○UEDA, Mikio; YAKATA, Hidenori
- 1PA-013** Reduction of Fehling's solution with aliphatic aldehydes - relationship between molecular structure and reactivity (Tama University Hijirigaoka Senior High Sch.; Tokyo Metropolitan Komaba Senior High Sch.; Tokyo Metropolitan Musashinokita Senior High Sch.; Fac. Sci., TUS) ○UTAGAWA, Akiko; GOITSUKA, Yukari; KATSURADA, Kazuko; KOBAYASHI, Junya; KONNO, Takayuki; INOUE, Masayuki
- 1PA-014** What's chemistry? II - nuts and bolts (Sohdosya-kikaku) ○OHASHI, Kazutaka
- 1PA-015** Effective Application of ICT Devices with Chemical Experiments at College of Technology (Kobe City Coll. Technol.) ○SATO, Hirotohi; FUKUMOTO, Kozo; OSHIO, Aiko
- 1PA-016** The effects of a new style of chemistry class on 1st year medical students - with the implementation of basic practicum linked to clinical chemistry (Kindai Univ.) ○OKADA, Kiyotaka; SHIRAIISHI, Kouhei; OGAWA, Tomohiro; TAKECHI, Kaoruko; MASTUMURA, Haruo; KAJI, Hiroshi
- 1PA-017[#]** I-V characteristics of copper-zinc voltaic cell (Global Educ. Course, Naruto Univ. of Educ.) ○TAKEDA, Kiyoshi; YOSHIDA, Satori; MIYAKE, Otoo; TANIGUCHI, Kouta
- 1PA-018[#]** Experience Course for Junior High School Students Aimed at Confirming Photocatalytic Activity Easily and Quickly (Dept. of Chem. & Mater. Sci., NIT, Gunma College) ○TAIRA, Nobuyuki
- 1PA-019** An Experimental Program for Pre-service Teacher Education: Analysis of comprehension of Reaction Rate on Decomposition of Hydrogen Peroxide (Grad. Sch. of Edu., Tokyo Gakugei Univ.) ○HOSOE, Takashi; IKUO, Akira; KOKUSEN, Hisao; OGAWA, Haruo
- 1PA-020[#]** Explanation of hybrid orbitals using matrix and student responses (Kanazawa Inst. of Tech.) ○OYABU, Matashige
- 1PA-021** Group LTT Active Learning in Chemistry Remediation Class. Combination of non-Experienced Students with Experienced Students (Fac. Sci. Eng., Soka Univ.) ○ITO, Masato M.

Coordination Chemistry, Organometallic Chemistry

- 1PA-023[#]** Luminescence property of Ln complexes designed molecular-valence-changing (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○KAMATA, Jun; YONEYAMA, Mayo; MIYAUCHI, Takumi; MARETS, Nicolas; SAITO, Daisuke; OHMAGARI, Hitomi; KATO, Masako; HASEGAWA, Miki
- 1PA-024[#]** Crystal Structure Simulation of Helicate Lanthanide Complexes with Soft-Crystalline Properties (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○HIJIKATA, Masahiro; NAKAYAMA, Naofumi; OBATA, Shigeaki; OHMAGARI, Hitomi; GOTO, Hitoshi; HASEGAWA, Miki
- 1PA-025[#]** Synthesis of a β-Diketone Ligand with a Curved Aromatic Corannulene Skeleton and its Complexation with Europium(III) (Grad. Sch. Mat. Sci., NAIST) ○TANO, Ryosuke; TAN, Yan Bing; YAMADA, Mihoko; KAWAI, Tsuyoshi
- 1PA-026** Circularly Polarized Luminescence from Coordination-Driven Chiral Lanthanide Assembly (Fac. Sci., TUS) ○YAMAZAKI, Yukiko; SATO, Miki; YUASA, Junpei
- 1PA-027** Synthesis of bridged ligands having a carbazole spacer and their self-assembly (Fac. Sci., TUS) ○SUGAWA, Ayuko; YUASA, Junpei
- 1PA-028[#]** Synthesis and luminescent property of Eu^{III} complex with hydrazone derivatives having a chromonyl group (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Aichi Univ. of Educ.) ○KAMEI, Asahi; SUNATSUKI, Yukinari; INAMO, Masahiko; SUZUKI, Takayoshi
- 1PA-029** Synthesis of photo-activatable multinuclear lanthanide complexes (Fac. Sci., TUS) ○TANAKA, Kohei; YUASA, Junpei
- 1PA-030[#]** Photoluminescent property on gadolinium-chromium cyano-bridged bimetal assemblies (Sch. Sci. Eng., Univ. of Tsukuba) ○MURAKAMI, Shuhei; WANG, Junhao; OHKOSHI, Shin-ichi; TOKORO, Hiroko
- 1PA-031[#]** Absolute Spontaneous Resolution of M^{II}-Ln^{III}-M^{II} Type Trinuclear Complexes from Achiral Tripodal Schiff Base Ligand (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○TAKAHARA, Kazuma; HORINO, Yuuki; SUNATSUKI, Yukinari; SUZUKI, Takayoshi
- 1PA-032** Syntheses and magnetic properties of Ln(III) complexes with cyclen-based octadentate ligand (Fac. Sci., Nara Women's Univ.) ○SAKO, Arisa; IRISA, Mine; KUDO, Mayumi; KAJIWARA, Takashi
- 1PA-033** The Syntheses and Structures of Dinitrogen Chromium Complexes Bearing a Triamidoamine Ligand (Fac. Eng., Aichi Inst. of Tech.) ○KOKUBO, Yoshiaki; KAJITA, Yuji
- 1PA-034[#]** Synthesis of three-dimensional octacyanidometalate-based bimetal assemblies with cyanide- and dipyriddy-disulfide-bridges (Grad. Sch. Sci., The Univ. of Tokyo) ○KANNO, Takafumi; KOMINE, Masaya; KAWABATA, Shintaro; TABATA, Tomohiro; NAKABAYASHI, Koji; OHKOSHI, Shinichi
- 1PA-035** Systematic Synthesis and Magnetic Behavior of Coordination Polymers Consisting of Nitridotetracyano Cr(V) and Mn(III) Salen-type Complexes (Fac. Sci., Kyushu Univ.; Grad. Sch. Sci., Kyushu Univ.) ○HONDA, Megumi; YOSHINO, Haruka; OHTSUBO, Yuta; OHTANI, Ryo; OHBA, Masaaki

- 1PA-036[#]** Study of surface morphology and magnetic properties on magnetic thin films of iron chromate hexacyanochromate (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YAHAGI, Yuji; OHKOSHI, Shin-ichi; TOKORO, Hiroko
- 1PA-037[#]** Syntheses and Characterization Heterometallic One-dimensional Chain Containing Redox-active Platinum and Manganese Trinuclear Complex (Fac. Eng., Gifu Univ.) ○AOKI, Yusuke; EBIHARA, Masahiro; UEMURA, Kazuhiro
- 1PA-038[#]** CO₂ capturing ability of *fac*-[Re(bpy)(CO)₂(PR₃)(OR')₂] (Sch. Sci., Tokyo Tech.) ○FUJINO, Yuta; TAMAKI, Yusuke; ISHITANI, Osamu
- 1PA-039[#]** Photocatalytic CO₂ reduction by trinuclear rhenium complexes (Sch. Eng., Tokyo Univ. of Tech.) ○IIJIMA, Rie; MORIMOTO, Tatsuki
- 1PA-040[#]** CO₂ Reduction Catalyzed by Dinuclear Rhenium Complexes Bridged by Anthracene (Coll. Sci., Rikkyo Univ.) ○SAKURAI, Shota; KASUYA, Chisato; NAKAZONO, Takashi; WADA, Tohru
- 1PA-041[#]** Spin crossover property and solvent effect on halogen-substituted qsal iron(II) complex (Fac. Sci. Eng., Kindai Univ.) ○ANDACHI, Mizuki; FUKUMASU, Tomohiro; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-042[#]** Application to long-wavelength absorption and photoelectric conversion with J-aggregation of chiral azo-salen Fe (II) complex and Zn (II) phthalocyanine (Grad. Sch. Sci., TUS) ○SOEJIMA, Tatsuo; HARAGUCHI, Tomoyuki; AKITSU, Takashiro; SUGIYAMA, Mutsumi
- 1PA-043[#]** Synthesis and catalytic activity of iron complexes bearing a tris (carbene)borate ligand (Dept. of Material & Life Chem., Kanagawa Univ.) SATO, Yuna; ○OKAMURA, Masaya; HIKICHI, Shiro
- 1PA-044[#]** Formation and X-ray structural analysis of new iron-sulfur cluster containing an Fe₄S₅ core with two diphenyldithiolene ligands and two C₅Me₅ ligands (Fac. Symbiotic. Syst. Sci. & Tech, Fukushima Univ.) ○UCHI, Akito; INOMATA, Takanori; TAKASE, Tsugiko; ○INOMATA, Shinji
- 1PA-045[#]** Synthesis and structure of charge-transfer complex [(MeCp)₄Fe₄Se₄][Ni(S₂C₂Ph₂)₂] (Fac. Symbiotic. Syst. Sci. & Tech, Fukushima Univ.) ○OUCHI, Akito; INOMATA, Shinji; TAKASE, Tsugiko
- 1PA-046[#]** Substituent Effect on Redox Behavior of N,C,S-Pincer Iron Carbonyl Complexes Bearing a Quinoyl Group (Fac. Sci., Kanagawa Univ.) MASUDA, Yuta; ○KAWARAI, Kazunari; HIROTSU, Masakazu
- 1PA-047[#]** Synthesis and magnetic property of dinuclear Fe(II) complexes using tetra-Schiff base ligands having halogen substituents (Fac. Sci. Eng., Kindai Univ.) ○HIKINO, Takumi; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-048[#]** Evaluation of Catalytic Properties of Redox Active Polynuclear Metal Complexes with Mixed Metal Ions (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○TSUKAMOTO, Yu; KIYONO, Miyako; TANAKA, Yoko; MASAOKA, Shigeyuki; TANAKA, Daisuke
- 1PA-049[#]** Exploring the Method for Solid Solution of Metal-Organic Frameworks by Using a Microreactor (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○YAMADA, Saki; TANAKA, Yoko; OKADA, Keito; TANAKA, Daisuke
- 1PA-050[#]** The synthesis of 2-dimensional coordination polymers Fe(L)₂[M(CN)₂]₂ by solid state 1-D polymer immersed in ligand (L) solution: structure and magnetic properties (Sch. Sci. Eng., Tokyo Denki Univ.) ○SYUNSUKE, Arai; RYOTA, Kosuge; TAKASHI, Kosone; TAKUYA, Kawata
- 1PA-051[#]** Synthesis and Catalytic Methane Oxidation Property of μ -Nitrido-Bridged Iron Phthalocyanine Dimer Bearing Eight 12-crown-4 Groups (Grad. Sch. Sci., Nagoya Univ.) ○KURA, Junichi; YAMADA, Yasuyuki; TANAKA, Kentaro
- 1PA-052[#]** Synthesis of a Tetrahedral Chiral-at-Iron Complex bearing an Achiral Unsymmetrical Bidentate Ligand and its Elucidation of Properties (Grad. Sch. Sci., The Univ. of Tokyo) ○EBIHARA, Toru; NAGATA, Koichi; SHIONOYA, Mitsuhiro
- 1PA-053[#]** Structure of ruthenium complex in nitric acid solution estimated using DFT calculation (Fac. Sci., Hiroshima Univ.; NSEC, JAEA; N-BARD, Hiroshima Univ.) ○KATO, Akane; KANEKO, Masashi; NAKASHIMA, Satoru
- 1PA-054[#]** Red-Light-Driven Hydrogen Production by TiO₂-based Photoanode Modified with Novel Ru Photosensitizer having Picolinate derivatives (Fac. Sci., Kyushu Univ.) ○MORITA, Kohei; SAKAI, Ken; OZAWA, Hironobu
- 1PA-055[#]** Synthesis and Electronic Structure of a New Series of Oxo-Centered Triruthenium Complexes with Pyrazine Derivatives (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○MORIMOTO, Yuto; TAHARA, Keishiro; OZAWA, Yoshiaki; ABE, Masaaki
- 1PA-056[#]** Coordination Mode-controlled Ruthenium Photosensitizers Aimed at Optimization of Electronic States: Evaluation of Electron Injection Efficiencies of Dye Molecules to Titania (Grad. Sch. Symbiotic Syst. Sci. & Tech., Fukushima Univ.; Sch. Eng., Nihon Univ.) ○NAKAMURA, Shunsuke; TAKASE, Tsugiko; OYAMA, Dai; WAKUI, Hiroki; KATOH, Ryuzi
- 1PA-057[#]** Synthesis of sandwich-type ruthenium complexes bearing arene ligand with long alkyl chain and its behavior in water (Fac. Life Med. Sci., Doshisha Univ.) ○WAKABAYASHI, Misato; NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo
- 1PA-058[#]** Reactions of Doubly Nitric Oxide-Bridged Dinuclear Ruthenium Complex with Acids (Sci. Tec., Sophia Univ.) ○AOKI, Kanako; MISAWA, Tomoyo; NAGAO, Hiroataka
- 1PA-059[#]** Intramolecular Hydrogen Bonding: a Key Factor on Photosubstitu-
- tion of Ruthenium Complexes (Dept. Appl. Chem., Nat. Def. Acad.) ○HIRAHARA, Masanari; NAKANO, Hiroyuki; UCHIDA, Kyohei; YAMAMOTO, Rei; UMEMURA, Yasushi
- 1PA-060[#]** Catalysis of Ru(II) complexes with a quaterpyridine ligand (Sch. Sci., Tokyo Tech.) ○WATANABE, Hiroharu; TAMAKI, Yusuke; ISHITANI, Osamu
- 1PA-061[#]** Water Oxidation Catalyzed by a Water-soluble Ruthenium Complex Inspired by Photosynthetic Oxygen Evolution Center (Grad. Sch. Sci., Rikkyo Univ.) ○IZUMI, Mayuko; NAKAZONO, Takashi; WADA, Tohru
- 1PA-062[#]** Electrochemical oxygen evolution and photoelectrochemical property of hole-mediator loaded photoanodes (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.) ○OTSUKA, Hiroki; KOBAYASHI, Atsushi; YOSHIDA, Masaki; KATO, Masako
- 1PA-063[#]** Structural, Spectroscopic, and Theoretical Study on Mixed-Valent State of Crystalline Oxo-Centered Triruthenium Complexes (Grad. Sch. Mat. Sci., Univ. of Hyogo; Grad. Sch. Eng., Univ. of Hyogo; JASRI) ○MORINO, Takashi; OZAWA, Yoshiaki; TAHARA, Keishiro; ABE, Hiroataka; HOTTA, Yasushi; WADATI, Hiroki; SUGIMOTO, Kunihisa; ABE, Masaaki
- 1PA-064[#]** Oxido- and acetate-bridged diruthenium(III) complex offering a substrate-selective active-site (Grad. Sch. Sci., Kitasato Univ.) ○SASAKI, Yuuya; YUGE, Hidetaka
- 1PA-065[#]** Synthesis and properties of pyrimidinethiolato cobalt(III) complexes (Fac. Sci., Kochi Univ.; Fac. Sci. & Tec., Kochi Univ.) NAKAMURA, Koji; ○YONEMURA, Toshiaki
- 1PA-066[#]** Synthesis and properties of a mononuclear Co complex that is oriented for Co-Ln complexes with the tetrahedral coordination geometry (Grad. Sch. Sci., Osaka Univ.) ○HARADA, Atsuhiko; ISHIZUKA, Akari; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 1PA-067[#]** Mononuclear Cobalt(II or III) Hydratonate Complexes : Synthesis, Characterization, Spectroscopic, Electrochemical and Magnetic Properties (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○ACHEAMPONG, Daniel Kwabena; SUZUKI, Takayoshi; SUNATSUKI, Yukinari
- 1PA-068[#]** Mechanism of slow magnetic relaxations in the Co(II) phthalocyanine (Grad. Sch. Sci., Osaka Univ.) ○MIYATAKE, Rina; AKAGI, Masaki; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 1PA-069[#]** Synthesis of oligoethyleneglyco functionalized VT complexes from tris semiquinonate Co(III) complexes and their properties (Fac. Sci. Eng., Chuo Univ.) ○TAKAHASHI, Satoru; KONISHI, Ryunosuke; CHIDA, Mayumi; KOSAKA, Wataru; MIYASAKA, Hitoshi; NAKADA, Akinobu; CHANG, Ho-chol
- 1PA-070[#]** Syntheses, crystal structures and properties of polynuclear Ir(III) hydride complexes bridged by 4,4' :2',2'' :4',4'' :4',4''' -quaterpyridine (Fac. Sci. Eng., Kindai Univ.) ○TERADA, Kota; MAEKAWA, Masahiko; OKUBO, Takashi; KURODA, Takayoshi
- 1PA-071[#]** Self-Assembly of Gigantic Spherical Complexes and Its Structural Study (Grad. Sch. Eng., The Univ. of Tokyo) ○HARA, Tomoaki; DOMOTO, Yuya; KUSAKIZAKO, Tsukasa; NUREKI, Osamu; FUJITA, Makoto
- 1PA-072[#]** Photophysical Properties of an Iridium Complex Incorporating Visible Light-Absorbing Chromophores (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○TAKIZAWA, Shin-ya; NAGAI, Keisuke; IKUTA, Naoya; MURATA, Shigeru
- 1PA-073[#]** Properties and photocatalytic function of iridium complexes with 2-phenylimidazo[1,2-*a*]pyridine derivatives as a ligand (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○KOBAYASHI, Jun; SATO, Taishin; IKUTA, Naoya; TAKIZAWA, Shin-ya; MURATA, Shigeru
- 1PA-074[#]** Formation and properties of cyclic complexes possessing heterogeneous metal arrays (Fac. Sci., Ochanomizu Univ.) ○SUGANUMA, Eri; KIMURA, Shun; KUSAMOTO, Tetsuro; OKABAYASHI, Jun; MIYAKE, Ryosuke
- 1PA-075[#]** Intermolecular interactions of copper(II) and platinum(II) complexes having two coordinated moieties (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○HINAKURA, Shouichi; MASAKI, Fuyuko; YAJIMA, Tatsuo
- 1PA-076[#]** Synthesis and properties of polynuclear platinum complexes with cyclometalated ligands (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○HIROSE, Mao; YAMANISHI, Katsunori; KATAOKA, Yusuke; KAWAMOTO, Tatsuya
- 1PA-077[#]** Synthesis and Property of a Heptanuclear Complex Bearing Two Triplatinum Units Bridged by a Silver(I) Ion (Grad. Sch. Sci., Osaka City Univ.) ○YABUNE, Natsuki; NAKAJIMA, Hiroshi; NISHIOKA, Takanori
- 1PA-078[#]** Methane activation on β -PtO₂ surface (IMCE, Kyushu Univ.) ○KURINO, Keita; TSUJI, Yuta; YOSHIZAWA, Kazunari
- 1PA-079[#]** One-dimensional Reaction of Platinum-Rhodium Dinuclear Complexes and Planar Mononuclear Complexes with Metal-metal Bonds (Fac. Eng., Gifu Univ.) ○IKEDA, Yuya; EBIHARA, Masahiro; UEMURA, Kazuhiro
- 1PA-080[#]** Encapsulation of luminescent Pt(II) complexes by DNA duplexes containing abasic sites (Grad. Sch. Sci., The Univ. of Tokyo) ○NAKAYA, Manabu; TAKEZAWA, Yusuke; SHIONOYA, Mitsuhiro
- 1PA-081[#]** Chromism of cyclometalated platinum(II) complex with picolinic acid derivative (Fac. Sci., Saitama Univ.) ○YAMASAKI, Tomomi; OHNO, Keiji; NAGASAWA, Akira; FUJIHARA, Takashi
- 1PA-082[#]** Properties of redox-active platinum(II) complexes with ligands deprotonated from o-phenylenediamine derivatives (Coll. Sci., Rikkyo

- Univ.) ○HATAKEYAMA, Genki; MATSUSHITA, Nobuyuki
- 1PA-083** Synthesis of Diimine Platinum(II) Complexes with Dioxodicyanopyradine (Fac. Sci. Eng., Chuo Univ.) ○MAKITA, Lika; ECHIGO, Ryoya; MIZUTANI, Tomohiro; NAKADA, Akinobu; CHANG, Ho-chol
- 1PA-084** Observation of vapo-chromism of platinum complex using a super-resolution microscope (IIS, The Univ. of Tokyo; Fac. Sci., Hokkaido Univ.) ○TAKANOHASHI, Shunsuke; ISHII, Kazuyuki; KATO, Masako
- 1PA-085** Synthesis and properties of coordination polymers consist of copper (I) iodide and thiophene-fused pyridine or pyrazine (NIT, Tokyo College) ○SUGITA, Ryo; KISHIOKA, Nobuki; IDE, Tomohito
- 1PA-086[#]** Preparation and Structure of Mononuclear Copper(II) Acetate Dihydrate (Fac. Sci., Josai Univ.) ○HIROSHI, Miyamae; RYUUITI, Uemura
- 1PA-087[#]** Synthesis and Studies on Physical Properties of Cu(I) Complexes with Pyrazinophenanthroline Derivatives (Fac. Sci. Eng., Kindai Univ.) ○NISHIYAMA, Tomoki; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 1PA-088[#]** Formation and physical properties of multinuclear copper complexes from 1,3-dione dioximes and copper(II) salts (Grad. Sch. Sci. Tech., Nihon Univ.) ○HOSOYA, Yosuke; KOBORI, Seiyu; WADA, Misaki; SUGAWA, Kosuke; OTSUKI, Joe
- 1PA-089[#]** Synthesis and structure of metal complexes with an asymmetric ether oxygen atom coordinated to the metal center (Fac. Sci., Nara Women's Univ.; Kyousei Sci. Center for Life and Nature, Nara Women's Univ.) ○UCHIDA, Mizuho; MATSUMOTO, Arimasa; MIKATA, Yuji
- 1PA-090** Studies on photorelaxation dynamics in copper(I) complexes in solid states by femtosecond fluorescence upconversion spectroscopy (Grad. Sch. Sci. Eng., Univ. of Toyama) ○NAKAMURA, Kosuke; FUJITA, Sayaka; IWAMURA, Munetaka; NOZAKI, Koichi
- 1PA-091** Synthesis and Evaluation of Physical Properties of Coordination Polymers Consisting with Copper(I) Halides and Nitrogen-containing Heterocyclic Compounds (Grad. Sch. Sci. Eng., Kindai Univ.) ○OHKITA, Misaki; YOSHIMURA, Nobutaka; KONDO, Sae; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi; KOBAYASHI, Atsushi; KATO, Masako
- 1PA-092[#]** Synthesis of luminescent silver(I) halogenido coordination polymers with pyrazine, methylpyrazine, and aminopyrazine (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○KUWAHARA, Taiki; NAKAGAWA, Ryuichi; OHTSU, Hideki; TSUGE, Kiyoshi
- 1PA-093** Synthesis, Structure, and Photophysical Properties of Pyridinethiolato Multinuclear Copper(I) or Silver(I) Complexes with Long Alkyl Chain Derivatives. (Grad. Sch. Mat. Sci., Univ. of Hyogo) ○YOSHIOKA, Haruka; YAMANAKA, Wataru; OZAWA, Yoshiki; TAHARA, Keishiro; ABE, Masaaki
- 1PA-094** Synthesis and physical properties of single-component molecular conductors, [M(etdt)₂] (M = Ni, Au) (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○SAKAGUCHI, Kazuha; ZHOU, Biao
- 1PA-095** Synthesis and optical properties of chiral ligand-protected gold clusters (Grad. Sch. Env. Sci., Hokkaido Univ.) ○CHEN, Yuxiang; OGAWA, Yuri; ZHANG, Fan; SHICHIBU, Yukatsu; KONISHI, Katsuaki
- 1PA-096[#]** Facile Synthesis of Arylgold(I) Complexes having *N*-Heterocyclic Carbene Ligands (Grad. Sch. Sci., The Univ. of Tokyo) ○TASHIRO, Risa; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 1PA-097[#]** NHC-protecting Pentanuclear-gold(I) cluster with a Hypercoordinated Nitrogen (Fac. Sci., The Univ. of Tokyo) ○PEI, Xiaoli; LEI, Zhen; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 1PA-098** Luminescence Color Alteration Induced by Trapped Solvent Molecules in Crystals of Tetrahedral Gold(I) Complexes (Fac. Fund. Eng., NIT; Lab. Chem. Life Sci., Tokyo Tech.) ○SOMA, Sakie; OSAWA, Masahisa; TANAKA, Yuya; AKITA, Munetaka
- 1PA-099[#]** Intense Phosphorescence in an *N*-heterocyclic carbene-protected Au (I)-Ag(I) Heterometallic Cluster (Grad. Sch. Sci., The Univ. of Tokyo) ○LEI, Zhen; PEI, Xiaoli; NAGATA, Koichi; UBE, Hitoshi; SHIONOYA, Mitsuhiro
- 1PA-100[#]** Synthesis of a spirofluorene-based bis(saloph) zinc(II) complex and its molecular recognition behavior with chiral carboxylates (NanoLSI, Kanazawa Univ.) ○IKBAL, Sk Asif; SAKATA, Yoko; AKINE, Shigehisa
- 1PA-101** Syntheses and properties of asymmetrical phthalocyanines non-peripherally introduced with six *n*-butoxy groups (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○URATA, Tomohiro; HANDA, Makoto; SUGIMORI, Tamotu; AKASHI, Haruo
- 1PA-102** X-ray structure analysis of 2-nitrobenzyl ester included in crystalline sponge (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○FUJITA, Hiroataka; TAKIZAWA, Yuri; CHIKARAISHI, Noriko; YAMAGUCHI, Kazuo
- 1PA-103[#]** Preparation of dithiocarbamate complexes with pyridyl functionalities (Fac. Eng., OIT) NOMURA, Ryoki; ○SHIMADA, Daichi; SAKAI, Tadasu; OHTAKA, Atsushi; SHIMOMURA, Osamu
- 1PA-104** Gas Adsorption Properties of Metal-organic Frameworks using Terephthalic Acid Derivatives (Coll. Sci., Rikkyo Univ.) ○SUGAMATA, Koh; IHAMA, Teruyuki; MINOURA, Koh
- 1PA-105[#]** Synthesis and Structures of Aluminum Hydride Complexes with Bulky Monodentate Aryloxide Ligands (Fac. Sci. Eng., Kindai Univ.) ○NAKAI, Tomohiro; WATAUCHI, Toshiki; MUROSAKI, Takahiro; MATSUO, Tsukasa
- 1PA-106** Machine-Learning-Assisted Exploration of Synthesis Condition of Novel MOFs Containing In-S Bonds (Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KOMINAMI, Hayato; WAKIYA, Takuma; HAMANO, Ryo; KAMAKURA, Yoshinobu; TANAKA, Daisuke
- 1PA-107[#]** Preparation and catalytic properties of a metal electrode coated with a homochiral metal-organic framework (Fac. Sci., TUS) ○TANAKA, Saki; KAWASAKI, Tsuneomi; SADAKIYO, Masaaki
- 1PA-108** Development of cis-diol compounds selective adsorption material (Asai Germanium Res. Inst. Co., Ltd) ○SHIMADA, Yasuhiro; MASAKI, Mika; SAITO, Kyoichi; ASO, Hisashi; NAKAMURA, Takashi; SATO, Katsuyuki
- 1PA-109[#]** Synthesis and Evaluation of Novel Pb-S MOFs (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.) ○KAMAKURA, Yoshinobu; TANAKA, Daisuke
- 1PA-110** Synthesis and structure of [Pb(C₆H₆N₄)Cl][PbCl₃] having 2,2'-biimidazole as ligand (Fac. Sci., Josai Univ.) ○WATANABE, Kanoko; SUZUKI, Mitsuaki; MIYAMAE, Hiroshi
- 1PA-111[#]** Theoretical Study on Absorption of Hydrogen Molecule to Lithium, Sodium, and Calcium Catecholates (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-112** Reactions of a silanimine-coordinated half-sandwich-type titanium complex with substrates containing carbon-nitrogen double bonds. (Fac. Sci. Tech., Hirosaki Univ.) ○TSUSHIMA, Koya; OHTA, Shun; OKAZAKI, Masaaki
- 1PA-113** Reaction of molybdenum hydride complexes with disilanes and reactivity of the resulting complexes. (Grad. Sch. Eng., Yokohama Natl. Univ.) ○MAKOTO, Minato; TOSHIKI, Nanami
- 1PA-114[#]** A Synthetic Investigation of Fluorenyl(methyl)silylenetungsten Complexes (Grad. Sch. Sci. Tech., Gunma Univ.) ○KAWACHI, Kosuke; MURAOKA, Takako; UENO, Keiji
- 1PA-115[#]** Development of highly active homogeneous rhenium catalytic system for low-temperature hydrogenation of carboxylic acids (Grad. Sch. Sci., Nagoya Univ.) ○OKADA, Takuya; YOSHIOKA, Shota; SAITO, Susumu
- 1PA-116** Electrochemical- and photo-reduction of CO₂ using base metal complexes bearing PNNP-type tetradentate ligands (Grad. Sch. Sci., Nagoya Univ.) ○WAKABAYASHI, Taku; KAMADA, Kenji; JUNG, Jieun; SAITO, Susumu
- 1PA-117** Synthesis and Properties of Hydrogenase Mimic Complexes Bearing a Visible-Light Absorbing π -Extended Unit (Grad. Sch. Sci., Eng., Saitama Univ.) ○KASAHARA, Chizuru; WEIGAND, Wolfgang Christian; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PA-118** Syntheses of iron and cobalt complexes generated from metal diaryl species and alcohols/carboxylic acids, and their catalytic activity toward hydrosilylation of alkenes. (Grad. Sch. Eng. Sci., Kyushu Univ.) ○NINOMIYA, Shungo; TAHARA, Atsushi; NAGASHIMA, Hideo
- 1PA-119** Study on electron transfer for binuclear ruthenium complex using NMR spectroscopy (Grad. Sch. Sci., Hiroshima Univ.) NAKASHIMA, Satoru; ○KOWA, Chie
- 1PA-120[#]** Application of Sterically Hindered Electron-Rich PNP Cobalt Complexes in the Hydrogenation of Alkenes and Alkynes (OIST) ○OSBORNE, James; LAPOINTE, Sebastien; KHUSNUTDINOVA, Julia
- 1PA-121[#]** Transfer Hydrogenation of Carbonyl Compounds Catalyzed by Cp*Iridium Complex Bearing a Functional Ligand Using Glucose as a Sustainable Hydrogen Donor (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) ○YOSHIDA, Masato; HIRAHATA, Ryota; INOUE, Takayoshi; SHIMBAYASHI, Takuya; FUJITA, Ken-ichi
- 1PA-122[#]** SiNP Pincer Complexes of Nickel and Palladium Synthesized via Transient Hydride Species (Grad. Sch. Sci., Kitasato Univ.) ○SAITO, Takato; TORIYABE, Takumi; KAMITANI, Masahiro; YUGE, Hidetaka
- 1PA-123[#]** Nickel(II) Complexes Bearing Tridentate Meso-ionic Carbene Ligand, Reactions and Structures (Fac. Sci., Fukuoka Univ.) ○TOMOMATSU, Kanta; KOGA, Yuji; MATSUBARA, Kouki
- 1PA-124[#]** Synthesis and Application of Organosilicon Compounds Bearing the Lewis Acid Moieties (IIS, The Univ. of Tokyo; Grad. Sch. Eng., The Univ. of Tokyo) ○ISHII, Leon; SUNADA, Yusuke
- 1PA-125** Catalytic Reactions in Water using Pd-Immobilized Thermoresponsive Copolymer Micelle (Sci. Tec., Sophia Univ.; Natl. Taipei Univ. Tech.) ○EBARA, Nozomu; KOIKE, Rina; KOYAMA, Shun; TAKEOKA, Yuko; RIKUKAWA, Masahiro; SUZUKI, Noriyuki; HUNG, Tsai-yu; TSAI, Fu-yu
- 1PA-126** Construction of Triarylmethyl Skeleton by Regioselective Oxidative Coupling Reaction (Fac. Eng., OIT) OHTAKA, Atsushi; ○SAKAGUCHI, Tomoya; SHIMOMURA, Osamu; NOMURA, Ryoki
- 1PA-127** Synthesis of Dinuclear and Pincer complexes from Chelate-bridging ligands containing Urea or Thiourea moieties (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○YOSHIDA, Akito; TSUKADA, Naofumi
- 1PA-128** Tandem Cyclization of Indole Derivative using Palladium(0)-Catalyzed Reaction. (Fac. of Sci., Okayama Univ. of Sci.) ○YAMAMOTO, Masashi; YAMADA, Haruo
- 1PA-129** Synthesis of M₂Cu Heterometallic Dinuclear Complexes (M = Ni, Pd, Pt) Supported by a Tetrakisphosphine Ligand and Their Reactions (Fac. Sci., Nara Women's Univ.) ○TAKUBO, Mizuki; IMAI, Kaho; NAKAMAE, Kanako; NAKAJIMA, Takayuki; TANASE, Tomoaki
- 1PA-130[#]** Planar-Chiral Ferrocenes Circularly Bridged and Helically Stacked in Nanotubular Wall (Grad. Sch. Eng., The Univ. of Tokyo) ○ZHAO,

- Yingluo; AIDA, Takuzo
- 1PA-131** Computational study of metal nanoparticles dispersed in MOF (Fac. Eng., Kyushu Univ.) ○NAKATANI, Morio; STAYKOF, Alexander; YOSHIZAWA, Kazunari
- 1PA-132[#]** Asymmetric Oxa-Diels-Alder Reaction Catalyzed by a Tetrahedral Chiral-at-Zinc Complex with a Tridentate Achiral Ligand (Grad. Sch. Sci., The Univ. of Tokyo) ○LIU, Yuanfei; ENDO, Kenichi; UBE, Hitoshi; NAGATA, Koichi; SHIONOYA, Mitsuhiro
- 1PA-133[#]** Synthesis and electrochemical behavior of a novel tripyridylmethane ligand with a Lewis base at the 6-positions and its metal complexes (Grad. Sch. Sci. & Tech., Meijo Univ.) ○KANAZAWA, Madoka; NAGATA, Toshi
- 1PA-134** Base-Catalyzed Selective Coupling Reaction of Acetoxysilanes with Silanols (IRC3, AIST) ○YAMASHITA, Hiroshi; HATORI, Makiko; SHINOHARA, Yoshihiro; SATO, Kazuhiko; IGARASHI, Masayasu
- 1PA-135** Synthesis and Reactivity of Halohydrosilanes Bearing the Bulky Rind Group (Fac. Sci. Eng., Kindai Univ.) ○SUZUKI, Mikiya; OHNO, Ryoma; HAYAKAWA, Naoki; SADAMORI, Kazuya; YOSHIMURA, Takayoshi; HATANAKA, Miho; MATSUO, Tsukasa
- 1PA-136[#]** Synthesis and Reactivity of Bromo-Substituted Cyclotrisilene Bearing the Eind Groups (Grad. Sch. Sci. Eng., Kindai Univ.) ○OHNO, Ryoma; ROSAS-SANCHEZ, Alfredo; HASHIZUME, Daisuke; HATANAKA, Miho; MATSUO, Tsukasa
- 1PA-137[#]** Reactivity of Germabenzenylpotassium (ICR, Kyoto Univ.) ○SASAYAMA, Ryuto; MIZUHATA, Yoshiyuki; TOKITOH, Norihiro
- 1PA-138** Formation and characterization of Cu(II)-diphenolate complex with intramolecular redox reaction (Coll. Sci., Ibaraki Univ.) ○SHIMA, Yuto; SUZUKI, Takashi; SHIMAZAKI, Yuichi
- 1PA-139[#]** Cyclization of Aryl Oximes and Diazo Compounds Catalyzed by a Rh(III)-linked Biohybrid Catalyst (Sch. Eng., Osaka Univ.) ○TAKEUCHI, Koki; KATO, Syunsuke; ONODA, Akira; HAYASHI, Takashi
- 1PA-140[#]** Complexation reaction of lanthanide ions with tris-catechol unit built on the three-fold axis of ferritin (Grad. Sch. Sci., Osaka City Univ.) ○MIYAKE, Hironori; IKENOUE, Yuta; NISHIOKA, Takanori; NAKAJIMA, Hiroshi
- 1PA-141** Metal dependence of Prussian blue analogues on the cesium adsorption ability (IIS, The Univ. of Tokyo) ○MURATA, Mikuru; ISHII, Kazuyuki; ENOMOTO, Kyoko
- 1PA-142[#]** Magnetic properties of octacyano *M*-W (*M* = Ni or Zn) bimetal assemblies (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○VIRAVAU, Cedric; MAEDA, Naotaka; IMOTO, Kenta; OHKOSHI, Shin-ichi; TOKORO, Hiroko
- 1PA-143[#]** Synthesis and chemical properties of amphiphilic block copolymer bearing metal complex catalysts (Grad. Sch. Eng., The Univ. of Tokyo) ○ENOMOTO, Takafumi; AKIMOTO, Aya; YOSHIDA, Ryo
- 1PA-144** Evaluation of enzyme-MOF composite formed by glucose oxidase and ZIF-8 (Tokyo Metropolitan Ind. Tech. Res. Inst.) ○KINOSHITA, Mariko; TAKIMOTO, Yuki; GESSEI, Tomoko; MONKAWA, Akira
- ### Analytical Chemistry
- 1PA-147** Luminous characteristics of tris(2,2'-bipyridine)ruthenium(II) introduced tyrosine residues (Grad. Sch. Human. Sci., Nara Women's Univ.) ○KIMORI, Kana; TAKASHIMA, Hiroshi; NAKATA, Eiji
- 1PA-148** Evaluation of particle size of nanoparticles by SAXS (Nagoya Municipal Industrial Research Institute) ○KAWASE, Satoru; ONO, Satomi
- 1PA-149** Elemental Analysis of excavated whetstones in Chiba (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○MARUYAMA, Kishin; MACHIGASHIRA, Rikuto; TAKAOKA, Manami; NISHIMOTO, Yuko
- 1PA-150** Analysis of Water-soluble Particulate Matter Components via Ion Selective Electrodes (Sch. Eng., Nagoya Univ.) ○YAMAUCHI, Haruka; SHIMADA, Taisuke; YASUI, Takao; GODA, Tatsuro; KAJI, Noritada; MIYAHARA, Yuji; BABA, Yoshinobu
- 1PA-151** Electrochemical Quantitation of Sulfate Ion in Aqueous Solution Using Peroxydisulfate Ion Generated by Preelectrolysis (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○SAITO, Yu; HONDA, Kensuke; NARAGINO, Hiroshi
- 1PA-152** Light Acclimation of Siphonous Marine Green Algae (Sch. Sci. Eng., Univ. of Tsukuba) ○HIYAJI, Kota; SEKI, Soichiro; KATSUNO, Tomoya; TANIMOTO, Chihiro; FUJII, Ritsuko; KOBAYASHI, Masami
- 1PA-153** Single particle analysis of particulate matters via surfactant-based dispersibility enhancement (Sch. Eng., Nagoya Univ.) ○FUJINO, Keiko; SHIMADA, Taisuke; YASUI, Takao; NAGASHIMA, Kazuki; YANAGIDA, Takeshi; KAJI, Noritada; BABA, Yoshinobu
- 1PA-154[#]** Preparation and Characterization of Novel Oligothiophene-based Ligands (Kanazawa Inst. of Tech.) ○KUBOTA, Atsushi; SAKAMOTO, Mune-aki; OSHIMA, Syunichi; FUJINAGA, Kaoru; SUZUKI, Yasutada
- 1PA-155** ATP Sensing of Fluorescence Probe Based on Metal Complex with Quinololinol Derivative (Osaka Kyoiku Univ.; TRI-OSAKA) ○KUBONO, Koji; TSUDA, Akira; KASHIWAGI, Yukiyasu; YOKOI, Kunihiko
- 1PA-156[#]** Measurement of permeability of an endothelial monolayer using scanning electrochemical microscopy (Grad. Sch. Environmental Studies, Tohoku Univ.; Grad. Sch. Eng., Tohoku Univ.; FRIS, Tohoku Univ.) ○FUJII, Ryota; ABE, Minoru; NASHIMOTO, Yuji; INO, Kosuke; SHIKU, Hitoshi
- 1PA-157** VOC-adsorption properties of surface-modified cellulose carbide (Grad. Sch. Fac. Sci., Kanagawa Univ.; Rigaku Corp.) ○SHIGEMOTO, Takumi; CELIZ, Lani; ARII, Tadashi; NISHIMOTO, Yuko
- 1PA-158** Salt effect on Methyl Cellulose Thermo-Reversible Hydrogels Containing PEG (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○NAKANO, Satoshi; SAKO, Yuka; NISHIMOTO, Yuko
- 1PA-159** Trial of field analysis of cadmium in soil by dye-nanoparticle coated test strip (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○SHINODA, Ryouyuke; TAKAHASHI, Yukiko
- 1PA-160[#]** Detection of dissolved carbon dioxide in water by infrared optical waveguide spectroscopy (Grad. Sch. Maritime Sci., Kobe Univ.; The Univ. of Tokyo; KIMOTO ELECTRIC Co., Ltd.) ○HOTTA, Hiroki; MENG, Guangzhi; TSUNODA, Kin-ichi; KIMOTO, Takashi
- 1PA-161[#]** Derivatization for the analysis of drugs with triethyloxonium tetrafluoroborate in application to forensic sciences (Forensic Sci. Lab., Fukuoka Pref. Police H.Q.) ○MORITA, Junichi; HAZAMA, Yuta; OGAWA, Shin; HARAGUCHI, Shingo; WAKIGAWA, Kengo; GOHDA, Akinaga
- 1PA-162[#]** A novel caged Cookson-type reagent toward a practical vitamin D derivatization method for mass spectrometric analyses (Tokuyama Corp.; JEOL Ltd.; Chiba Univ.; Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.) SEKE, Masahiko; SATO, Makoto; TAKIWAKI, Masaki; TAKAHASHI, Koji; KIKUTANI, Yoshikuni; SATOH, Mamoru; NOMURA, Fumio; KURODA, Yutaka; ○FUKUZAWA, Setsu
- 1PA-163[#]** Synthesis and evaluation of small molecule-peptide nucleic acid conjugates targeting influenza A virus RNA (Sch. Sci., Tohoku Univ.) ○MIURA, Hiromasa; TANABE, Takaaki; SATO, Yusuke; NISHIZAWA, Seichi
- 1PA-164[#]** Synthesis and evaluation of fluorescent probes based on epsin-derived amphipathic α -helical peptides for exosome analysis (Sch. Sci., Tohoku Univ.) ○HOSHINO, Keita; KUWAHARA, Kazuki; MOGAMI, Kenta; SATO, Yusuke; NISHIZAWA, Seichi
- 1PA-165** Incorporation of 5-bromouracil into triplex-forming peptide nucleic acid probes for the improved recognition of RNA duplexes at physiological conditions (Sch. Sci., Tohoku Univ.) ○IWAKI, Nanako; ICHIKAWA, Yuki; SATO, Yusuke; NISHIZAWA, Seichi
- 1PA-166[#]** Intramolecular crosslinked amphipathic α -helical peptide probes for the improved analysis of exosomes (Sch. Sci., Tohoku Univ.) ○IWAHASHI, Yu; MOGAMI, Kenta; KUWAHARA, Kazuki; SATO, Yusuke; NISHIZAWA, Seichi
- 1PA-167[#]** Design of new deep-red fluorescent RNA tags based on interaction between TO-PRO-3 derivatives and bacterial A-site RNA (Sch. Sci., Tohoku Univ.) ○HIGUCHI, Kei; YAJIMA, Sayaka; SATO, Yusuke; NISHIZAWA, Seichi
- 1PA-168** Evaluation of surface treatment conditions for reduction of non-specific adsorption on polymer-based photonic crystal (Grad. Sch. Eng., Osaka Pref. Univ.) ○NAKANO, Moe; KAWASAKI, Daiki; YAMADA, Takahiro; SUEYOSHI, Kenji; HISAMOTO, Hideaki; ENDO, Tatsuro
- 1PA-169[#]** Fundamental study for nanoscale imaging of tissue interface using scanning ion conductance microscopy (Grad. Sch. Environmental Studies, Tohoku Univ.) ○ABE, Minoru; NASHIMOTO, Yuji; IDA, Hiroki; KUMATANI, Akichika; TAKAHASHI, Yasufumi; INO, Kosuke; SHIKU, Hitoshi
- 1PA-170** Simultaneous amino acid analysis based on 19F NMR using a modified OPA-derivatization method (Grad. Sch. Sys. Eng., Wakayama Univ.) ○SAKAMOTO, Takashi; QIU, Zhiyong; INAGAKI, Miyu; FUJIMOTO, Kenzo
- 1PA-171** Microbial derivatization with *o*-phthalaldehyde reagent (Toyama Inst. Health) ○YASUKAWA, Kazuyuki; YAMASHITA, Tomohisa
- 1PA-172[#]** Rapid and Easy Screening Method for Detection of Thiabendazole in Lemons Using 3D Fluorescence Spectroscopy (OIPH) ○MATSUI, Hiroshi; KAKUTANI, Naoya
- 1PA-173** Determination method of fungicides by quantitative NMR (OIPH) ○NAKAMURA, Misako; SOBUE, Yumi; KAKUTANI, Naoya; YAMAGUCHI, Yukihiko; YAMANO, Tetsuo
- 1PA-174** Effect of preparing condition and keeping period on oxidizing and reducing substances of electrolyzed water (Kanagawa Univ.) ○MINENO, Masaki; NISHIMOTO, Yuko; SUGIHARA, Toshio
- 1PA-175** Salt effect on the water state and transition temperature of lyotropic liquid crystal (Fac. Sci., Kanagawa Univ.) ○SAKO, Yuka; NAKANO, Satoshi; NISHIMOTO, Yuko; KGESHIMA, Kazuki; FUJIGASAKI, Ayaka
- 1PA-176** Development of fluorescence enhancement device for nitroarene quantitative analysis (Tokyo Metropolitan Ind. Tech. Res. Inst.; Fac. Sci., Toho Univ.) ○FUJIMAKI, Yasuto; KOGANEI, Seiji; FUSE, Makoto; SAITO, Atsuko; OHSHIMA, Shigeru
- 1PA-177** Spectrophotometric determination of amino acids using reaction with phenol and hypochlorite (Sch. Sci., Tokai Univ.) ○SATO, Fumiya; MIKAMI, Ikko
- 1PA-178** Development of determination method of singlet oxygen in the air using polymer thin film with ESR spin trap reagent (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○YAMAMURA, Yudai; TAKAHASHI, Yukiko

Sunday, March 22, PM

(12 : 30~14 : 00)

Physical Organic Chemistry Structures and Properties

Molecular Structures and Stereo Chemistry

- 1PB-001[#]** Inherently Chiral Cavitand Curvature: Diastereoselective Oxidation of Cavitands Tethered to Allylsilanes (Fac. Sci. Tech., Ryukoku Univ.)
○MATSUMOTO, Yasuhiro; INOUE, Mami; IWASAWA, Tetsuo
- 1PB-002** Crystal Structures of 3-Hydroxytropolone and 3-Iodotropolone (Fac. Eng., Hokkai Gakuen Univ.; IMCE, Kyushu Univ.) ○KUBO, Kanji; MATSUMOTO, Taisuke
- 1PB-003[#]** Synthesis and chiroptical properties of stereogenic oligophenylene embedded into planar chiral [2.2]paracyclophane (Sch. Sci., Kitasato Univ.)
○ISHIDA, Yuuki; HASEGAWA, Masashi; SASAKI, Hiroaki; MAZAKI, Yasuhiro
- 1PB-004** Synthesis of aromatic hydrocarbon macrocycles which have tetraphenylethylene(TPE) skeletons and the stereochemistry thereof (Fac. Pharm. Sci., Toho Univ.) SAITO, Yuuki; NAKAGAWA, Ryota; KIKKAWA, Shoko; HIKAWA, Hidemasa; ○AZUMAYA, Isao
- 1PB-005** Determination of the Absolute Configurations of Chiral Nitriles with Argentivorous Molecule (Fac. Sci., Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.; Research Center for Materials with Integrated Properties, Toho Univ.; GNU) ○TENMA, Honoka; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; LEE, Shim Sung; KUWAHARA, Shunsuke; HABATA, Yoichi
- 1PB-006** Research on isomer production of substitution cyanoguanidine by phase-transfer reaction (Sch. Eng., Tokyo Denki Univ.) ○TANAKA, Satomi

Synthesis and Properties of New π -conjugating Molecules

- 1PB-007[#]** Synthesis of the Donor-Acceptor Type Molecule Consisting of Syringol and Pyridinium (Sch. Sci., Osaka Univ.) ○UCHIDA, Makoto; HIRAO, Yasukazu; NAGAOKA, Gen; KUBO, Takashi
- 1PB-008[#]** Synthesis of Bis(tricyclic) Aromatic Enes containing pyridine rings (Sch. Sci., Osaka Univ.) ○KOUZAKI, Izumi; HIRAO, Yasukazu; KUBO, Takashi
- 1PB-009** Creation of Acceptor-Type π -Conjugated Molecules Containing Coronenehexaones Skeleton (Grad. Sch. Sci., Eng., Saitama Univ.)
○IWABUCHI, Haruka; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PB-010** Synthesis and Physical Properties of Macrocyclic Trioxotriangulene Oligomers with Substituent Groups (Fac. Eng., Aichi Inst. of Tech.)
○OKUDA, Yuki; UKAI, Shusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 1PB-011** Synthesis of type-I meso-aryl substituted hexaphyrins (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○NAGANO, Yoichi; SUZUKI, Masaaki
- 1PB-012[#]** Synthesis of π -Expanded Porphyrin Derived from Tetra(*N*-carbazolyl)porphyrin (Grad. Sch. Sci., Nagoya Univ.) ○MATSUBUCHI, Atsuya; KAWANO, Shin-ichiro; TANAKA, Kentaro
- 1PB-013[#]** Synthesis and Characterization of Triple-decker Lanthanide Complexes of Porphyrin Dimer (ADRES, Ehime Univ.) ○MIYAMOTO, Kan; MORI, Shigeki; TAKASE, Masyoshi; OKUJIMA, Tetsuo; UNO, Hidemitsu
- 1PB-014** Synthesis of spiro-conjugated porphyrinoids (Grad. Sch. Nat. Sci. & Tech., Shimane Univ.) ○SUZUKI, Yuto; SUZUKI, Masaaki; UETAKE, Yasuhito; TSURUMI, Eisuke
- 1PB-015** Synthesis of π -Building Blocks with an Out-of-plane Anisotropy toward Two-faced Π -Conjugated Polymers (Fac. Sci., Saitama Univ.)
○YOKOTA, Misato; KOYAMA, Masaya; LOGAN, Quang Dang; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PB-016[#]** Condensation cyclization of aromatic amino acid derivatives and direct arylation (Fac. Eng. Nagoya Inst. of Tech.) ○MIYAMOTO, Daiki; YAMAGUCHI, Hinako; TAKAGI, Koji
- 1PB-017[#]** Synthesis and Photophysical Properties of Ladder-type and π -fused λ^5 -phosphinines (Grad. Sch. Sci., Eng., Ehime Univ.) ○FUJIMOTO, Shion; OHTA, Hidetoshi; HAYASHI, Minoru
- 1PB-018** Development of Synthetic Strategy of Macrocyclic Compounds : Utilization of Dehydration Condensation Reaction Between Diketone and Diamine (Grad. Sch. Sci. & Tech., NAIST) ○MURAKAMI, Yuya; HAYASHI, Hironobu; ARATANI, Naoki; YAMADA, Hiroko
- 1PB-019[#]** Synthesis and Properties of Trialkylsilylethynyl Substituted Tri(9-anthryl)methyl Radical Derivatives (Sch. Sci., Osaka Univ.) ○ISHII, Daisuke; NISHIUCHI, Tomohiko; KUBO, Takashi
- 1PB-020[#]** Synthesis and Optical Properties of Quinone Fused 2,5-Di(1,3-dithiol-2-ylidene)-1,3-dithiolane-4-thione Derivatives (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.; Fac. Eng., Shizuoka Univ.) ○UEDA, Kazumasa; TAKEUCHI, Ayaka; SUGIMOTO, Shinya
- 1PB-021[#]** Synthesis of Boron-Nitrogen Bond-Containing Non-Benzenoid Type π -Conjugated Molecules (Lab. Chem. Life Sci., Tokyo Tech.)
○KASHIDA, Junki; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 1PB-022** Synthesis and Properties of Azulene Extended Methylviologen Dimer (Sch. Sci., Kitasato Univ.) ○TSUCHIYA, Takahiro; SANO, Yuki; SAITOU, Souta; MAZAKI, Yasuhiro
- 1PB-023[#]** Palladium-catalyzed Selective Arylation of Azulenes at the 1,3-Positions based on the C-H Activation by Utilizing 2-Pyridyl Substituent as a Directing group (Fac. Sci. Tech., Hirosaki Univ.) ○NAGASAWA, Takuya; OGASAWARA, Yoshihiro; YATSU, Tomoaki; SHOJI, Taku; KAWAKAMI, Jun; ITO, Shunji
- 1PB-024[#]** Effect on the 2-Heteroaryl Substituents as a Directing Group for the Palladium-catalyzed C-H Activation Arylation of Azulenes at the 1,3-Positions (Fac. Sci. Tech., Hirosaki Univ.) ○OGASAWARA, Yoshihiro; NAGASAWA, Takuya; YATSU, Tomoaki; SHOJI, Taku; KAWAKAMI, Jun; ITO, Shunji
- 1PB-025[#]** Synthesis and properties of phenoquinone derivative with naphthalene structure (Fac. Sci., Hiroshima Univ.) ○KOYAMA, Satoki; HATANO, Sayaka; ABE, Manabu
- 1PB-026[#]** Synthesis and photophysical studies of dicyanophenanthrene derivatives with expanded conjugated units (Grad. Sch. Eng., Univ. of Hyogo)
○NISHIDA, Jun-ichi; KITAGUCHI, Nami; HIRAO, Yasukazu; KAWASE, Takeshi
- 1PB-027** Synthesis of π -extended phenacenes modified with long alkyl chains for developing a high-mobility FET material (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ○KOZASA, Keiko; HAMAOKA, Shino; KUBOZONO, Yoshihiro; OKAMOTO, Hideki
- 1PB-028[#]** Synthesis and Properties of Dicyclopenta[*b,g*]naphthalenes Fused with Various Aromatics as well as Their Analogues (Sch. Eng., The Univ. of Shiga Pref.; Sch. Sci. Tech., Gunma Univ.; IMCE, Kyushu Univ.)
○HAYASHI, Hideki; MIYAUCHI, Hidenori; MATSUMOTO, Taisuke; ASANO, Motoko; NAKAMURA, Yosuke; KITAMURA, Chitoshi; KATO, Shin-ichiro
- 1PB-029** Synthesis and reactions of mono-substituted dihydroxyanthracene derivatives (Grad. Sch. Human and Environ. Stud., Kyoto Univ.)
○YOSHIOKA, Takumi; HIROTO, Satoru
- 1PB-030** Reactions of *N*-substituted 2-azaphenalenyl and properties of products (Sch. Eng., Univ. of Hyogo) ○MATSUURA, Yuka; KATAYAMA, Koji; NISHIDA, Jun-ichi; KAWASE, Takeshi
- 1PB-031** Synthesis and Photochemical Properties of tert-Butylamine Bridged Carbazolophane. (Osaka Kyoiku Univ.; Sch. Eng., Osaka Univ.; Oita Univ.; IMCE, Kyushu Univ.) ○TANI, Keita; MIYANAGA, Kanae; HORI, Kazuhide; KUBONO, Koji; GOTO, Kenta; TANI, Fumito; HARADA, Takunori; MORI, Tadashi
- 1PB-032** Synthesis and Spectroscopic Properties of Oligoimidazolyleneethynylene (Fac. Sci. Tech., Keio Univ.) ○KOMIYA, Ryo; MIURA, Youhei; YOSHIOKA, Naoki
- 1PB-033** Synthesis and Properties of Phenothiazine Derivatives Bearing Various Aromatics via Ethynylene Spacers as Push-Pull Compounds (Grad. Sch. Sci. Tech., Gunma Univ.) ○SEKI, Katsuya; YAMAMOTO, Koji; NAKAMURA, Yosuke
- 1PB-034** Synthesis and properties of 1,7-halogenated perylene diimide (Grad. Sch. Eng., Iwate Univ.) ○MURATA, Teppei; CHIDA, Issei; KUZUHARA, Daiki; YOSHIMOTO, Noriyuki
- 1PB-035[#]** Synthesis of fluorene-rhodamine B hybrid (Fac. Sci., Kochi Univ.)
○MATSUURA, Hitomi; NIKO, Yusuke
- 1PB-036** Synthesis and properties of diazapyrene derivatives with fused aromatic rings (Fac. Sci., Osaka City Univ.) ○MASANI, Yasufumi; KOZAKI, Masatoshi; TACHI, Yoshimitsu
- 1PB-037** Synthesis and structure of a [5]helicene cyclic dimer with alkyne bridge (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.; Fac. Pharm. Sci., Toho Univ.) ○MINAMI, Yuji; MATSUMI, Ryo; KIKKAWA, Shoko; AZUMAYA, Isao; WATANABE, Soichiro
- 1PB-038** Synthesis and Properties of Helicene-like Molecules Containing Pyrene Moiety (Grad. Sch. Eng., Tokyo Denki Univ.) ○MIYASAKA, Makoto; ORIHARA, Hazuki
- 1PB-039** Synthetic study of [7]helicene derivatives incorporating donor and acceptor substituents at both ends of the molecule (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○NAKATSUKA, Tomoko; OKAMOTO, Hideki
- 1PB-040** The Synthetic Study of π -Extended Helicenes (Grad. Sch. Sci., Osaka Pref. Univ.) ○TANAKA, Shintarou; TSURUSAKI, Akihiro; KAMIKAWA, Ken
- 1PB-041[#]** Synthesis of a compound having subunits with a long C-C bond (Sch. Sci., Osaka Univ.) ○FUJII, Shohei; NISHIUCHI, Tomohiko; KUBO, Takashi
- 1PB-042** Creation of Nitrogen-containing π - σ Mixed Delocalized Systems with a Polyiodophenyl Group as σ -Symmetric Delocalized Unit (Grad. Sch. Sci., Eng., Saitama Univ.) ○TAKADA, Yuki; FURUKAWA, Shunsuke; SAITO, Masaichi
- 1PB-043** Synthesis and properties of dithienopyracylene (Fac. Eng., Iwate Univ.) ○TANIYAMA, Koki; SATO, Kei; KUZUHARA, Daiki; YOSHIMOTO, Noriyuki
- 1PB-044[#]** Stimuli-Responsive Magnetic Properties of Di(radical cation)s with Phenothiazine-terminated Alkyl Chains (Grad. Sch. Eng. Sci., Osaka Univ.)
○UCHIDA, Mizuki; SUZUKI, Shuichi; NAOTA, Takeshi
- 1PB-045** Abnormal oxidation reaction of 17-phenyltetrabenzofluorene derivatives (Grad. Sch. Eng., Univ. of Hyogo; Sch. Eng., The Univ. of Shiga Pref.) ○INOUE, Shogo; NISHIDA, Jun-ichi; KITAMURA, Chitoshi; KAWASE, Takeshi

- 1PB-046[#]** Influence of Substituents on Acceptor Sites of D- π -A Mechanochromic Compounds (Grad. Sch. Eng., Chiba Univ.) ○SHIMURA, Shunta; YAMAGUCHI, Koya; AKAZOME, Motohiro; MATSUMOTO, Shoji
- 1PB-047[#]** Direct π -Extension of Tetracene: Mechanism and Enhanced Photooxidative Stability (Fac. Eng., OIT; Grad. Sch. Eng., OIT; PRESTO, JST) ○MISHIMA, Daisuke; TOGO, Masahiro; MURAOKA, Masahiro; MURATA, Michihisa
- 1PB-048[#]** Fluorescent flapping mechanophore bearing phenazineimide groups (Dep. Chem., Sch. Sci., Kyoto Univ.; PRESTO, JST) ○SUGA, Kensuke; YAMAKADO, Takuya; OSUKA, Atsuhiko; SAITO, Shohei
- 1PB-049[#]** Preparation and properties of molecular assemblies using boron β -ketoiminate compounds (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○ZHENG, Shaokun; ONO, Katsuhiko
- 1PB-050** Harochromism caused by proton-donating/accepting abilities of trioxotriangulene modified with hydroxyl groups (Fac. Eng., Aichi Inst. of Tech.) ○OGI, Tsukasa; UKAI, Shusaku; MURATA, Tsuyoshi; MORITA, Yasushi
- 1PB-051[#]** Functionalization of phenothiazine derivatives by dibromofluorene (Nagoya Municipal Industrial Research Institute; Aichi Med. Univ.; Lab. Chem. Life Sci., Tokyo Tech.) ○HAYASHI, Hideki; OGAWA, Tadashi; KOZUMI, Take-aki
- 1PB-052[#]** Structure and Aromaticity of π -Extended Tetracene with a Heptagonal Ring (Fac. Eng., OIT; Grad. Sch. Eng., OIT; PRESTO, JST) ○HARADA, Ai; TOGO, Masahiro; MURAOKA, Masahiro; MURATA, Michihisa

Molecular Conductors and Magnetic Materials

- 1PB-053[#]** Syntheses and properties of nitroxide triradicals having terphenylene structure (Coll. Hum. Sci., Nihon Univ.) ○NAKAGOMI, Fuya; IWAHORI, Fumiya
- 1PB-054** Organic Semiconductor Properties of Tetrathienonaphthalenes 1-Molecular Design using Machine Learning and ASSiSt Method and Synthesis (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○IKEDA, Hiroshi; TANIGUCHI, Kimiya; KUMEDA, Motoki; SUENAGA, Yu; YAMAMOTO, Atsushi; TAKAGI, Kenichiro; YAMAGUCHI, Takashi; MATSUL, Yasunori; ASADA, Toshio; OHTA, Eisuke; NAITO, Hiroyoshi; KOSEKI, Shiro
- 1PB-055** Organic Semiconductor Properties of Tetrathienonaphthalenes 2-Basic and OFET Characteristics- (Grad. Sch. Eng., Osaka Pref. Univ.; The Research Inst. for Molecular Electronic Devices, Osaka Pref. Univ.; Grad. Sch. Sci., Osaka Pref. Univ.) ○KUMEDA, Motoki; TANIGUCHI, Kimiya; SUENAGA, Yu; YAMAMOTO, Atsushi; TAKAGI, Kenichiro; YAMAGUCHI, Takashi; MATSUL, Yasunori; ASADA, Toshio; OHTA, Eisuke; NAITO, Hiroyoshi; KOSEKI, Shiro; IKEDA, Hiroshi
- 1PB-056** Synthesis of picene diimide derivatives and the n-type FET characteristics (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ○YOSHIOKA, Kaito; GUO, Yuxin; HAMAO, Shino; KUBOZONO, Yoshihiro; OKAMOTO, Hideki
- 1PB-057[#]** Isolation and characterization of higher endohedral metallofullerenes encapsulating La atom. (Grad. Sch. Sci., Josai Univ.) ○ADACHI, Takuya; SUZUKI, Mitsuaki
- 1PB-058** Synthesis of Azaphenylene Oxyl Derivatives and Effect of Chemical Modification on Magnetic Properties (Fac. Sci. Tech., Keio Univ.) ○HACHIMURA, Nobuki; SUZUKI, Yutaro; MIURA, Youhei; YOSHIOKA, Naoki
- 1PB-059** Chemical Modification Effect of Benzo Ring Moiety on Magnetic Properties of Benzimidazole Nitronyl Nitroxide Crystals (Fac. Sci. Tech., Keio Univ.) ○SAKUMA, Satori; MIURA, Youhei; YOSHIOKA, Naoki

Molecular Semiconductors

- 1PB-060[#]** Systematic Control of Crystal Structure and Semiconductor Characteristics in Monoalkylated BTNT Structural Isomers with Different Substitution Positions (Grad. Sch. Eng., The Univ. of Tokyo) ○INOUE, Satoru; HIGASHINO, Toshiki; ARAI, Shunto; SAGAYAMA, Ryoko; KUMAI, Reiji; MATSUI, Hiroyuki; TSUZUKI, Seiji; HORIUCHI, Sachio; HASEGAWA, Tatsuo
- 1PB-061** Synthesis of New Perylene Diimide Derivatives through Regioselective Bromination and Applications to Organic Photovoltaics (Fac. Eng., Shizuoka Univ.; MMS, IMS) FUJIMOTO, Keisuke; ○UCHIDA, Kentaro; ARIKAI, Yusaku; SUGIMOTO, Shinya; IZAWA, Seichiro; HIRAMOTO, Masahiro; TAKAHASHI, Masaki

Photochemical Properties

- 1PB-062** Synthesis and Photophysical Comparison of Dibenzof[a,h]pentalene Molecular Assemblies with Acene Derivatives (Fac. Sci. Tech., Keio Univ.; Fac. Sci. Tech., Keio Univ.) ○MIYAGAWA, Tomoyuki; SAKAI, Hayato; HASOBE, Taku
- 1PB-063** Synthesis and properties of 2,2'-linked anthraquinone- and anthracene-dimers and anthracene-anthraquinone cross-coupling product: Effect of alkyl groups lying around linking bond (Sch. Eng., The Univ. of Shiga Pref.)

- KONDO, Aki; KATO, Shin-ichiro; NISHIDA, Jun-ichi; KAWASE, Takeshi; KOBAYASHI, Takashi; NAITO, Hiroyoshi; KITAMURA, Chitoshi
- 1PB-064** Development of a supramolecular photocatalyst using a carbocyanine dye (Grad. Sch. Eng., Osaka Univ.) ○TAMEMOTO, Tomoe; SHIGEMITSU, Hajime; TANI, Youhei; KIDA, Toshiyuki
- 1PB-065[#]** Optical properties of *N*-(1*H*-indol-2-ylmethylidene)-4-methoxyaniline (Osaka Kyoiku Univ.) NISHI, Masato; YAGI, Tomoko; GOTO, Youira; ○TANEDA, Masatsugu
- 1PB-066[#]** Synthesis and environment-sensitive fluorescence of quinolyl-phenothiazines (Grad. Sch. Eng., Utsunomiya Univ.) OBA, Toru; ○TANAZAWA, Kimataka; ITO, Satoshi; TAMESUE, Shingo
- 1PB-067** Two-Component Fluorescence ON/OFF Switching of Phenanthroimidazolylbenzothiadiazole Derivatives (Grad. Sch. Eng. Sci., Yokohama Natl. Univ.) ○TAKAHASHI, Shohei; NAGAI, Sayaka; UBUKATA, Takashi; ASAMI, Masatoshi; ITO, Suguru
- 1PB-068** Structure and Optical Property of Tri(naphthaleneimido)benzene (Grad. Sch. Sci., Tokai Univ.) ○SUGAWARA, Hiro; IKEDA, Toshiaki
- 1PB-069[#]** Room Temperature Dual Fluorescence-Phosphorescence Polymers Containing 1,4-Bis(acceptor)-2,5-bis(silylmethoxy)benzene moieties as Lumino-gen (KIT) ○NAGANO, Sho; SHIMIZU, Masaki
- 1PB-070[#]** Development of Ultraviolet Fluorophores Based on 1,4-Diaryl-2,5-dioxybenzenes (KIT) ○NISHIMURA, Kenta; SHIMIZU, Masaki
- 1PB-071[#]** Synthesis and fluorescence properties of quinolyl-carbazoles (Grad. Sch. Reg. Devel. Creativity, Utsunomiya Univ.) OBA, Toru; ○SUGAWARA, Aki; ITO, Satoshi; TAMESUE, Singo
- 1PB-072[#]** Controlling Pyrene Association in DNA Duplexes by DNA Structural Transitions (Grad. Sch. Eng., Univ. of Hyogo) UNO, Katsuhiko; ○NAKAMURA, Mitsunobu; TAKADA, Tadao; YAMANA, Kazushige
- 1PB-073** Synthesis and analysis of water-soluble flapping fluorophores (Dep. Chem., Sch. Sci., Kyoto Univ.; ALCA, JST) ○ANDO, Hokuto; YAMAKADO, Takuya; OSUKA, Atsuhiko; SAITO, Shohei
- 1PB-074[#]** Photophysical Properties of Phenothiazine with Branched Alkyl Groups (Grad. Sch. Eng. Sci., Osaka Univ.) ○ZHOU, Yingwen; SUZUKI, Shuichi; KAWAMORITA, Soichiro; NAOTA, Takeshi
- 1PB-075** Room Temperature Phosphorescence Found in Carbazole-pyrimidine Donor-acceptor Dyes (NIT, Kurume College) ○OGAWA, Yuta; MATSUMOTO, Taisuke; HIYOSHI, Hidetaka; ISHI-I, Tsutomu
- 1PB-076[#]** Suppression of Riboflavin-Photosensitized Singlet Oxygen Generation by Amino Acids (Grad. Fac. Eng., Yokohama Natl. Univ.) ○KOJIMA, Kenya; YAGI, Mikio; KIKUCHI, Azusa
- 1PB-077[#]** Quenching and Suppression of Riboflavin-Photosensitized Singlet Oxygen Generation by Salicylic Acid Derivatives (Grad. Fac. Eng., Yokohama Natl. Univ.) ○HIGUCHI, Makoto; YAGI, Mikio; KIKUCHI, Azusa
- 1PB-078** Synthesis of 1,4-bis(4-methoxyphenylazo)benzene and its response to UV light (Fac. Sci. Eng., Soka Univ.) ○KANEKO, Takashi; ITO, Masato M.
- 1PB-079[#]** Photon Upconversion System Using a Dyad Connected by Dimethylmethylene Linker (Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Eng., Osaka Pref. Univ.) ○HONDA, Kiyomasa; KANOH, Masaya; MATSUI, Yasunori; OHTA, Eisuke; IKEDA, Hiroshi
- 1PB-080** Differences in solid-state luminescence of benzo-annelated salicylideneaniline derivatives with different condensed ring modes (FUT; Grad. Sch. Eng. FUT) ○KURATA, Hiroyuki; TANAKA, Hiroshi; TAKEUCHI, Yoshihiro; ODA, Yusuke; SUGAWA, Masaki
- 1PB-081** Synthesis and Photophysical Properties of Pentacene-based Molecular Dyads (Fac. Sci. Tech., Keio Univ.; Fac. Sci., TUS) ○UKAI, Kohji; SAKAI, Hayato; HOSOKAWA, Yasunaga; NEGISHI, Yuichi; HASOBE, Taku
- 1PB-082** Tricolor Mechanochromic Luminescence of Thienylbenzothiadiazole Derivatives (Coll. Eng. Sci., Yokohama Natl. Univ.) ○YOSHIDA, Ryohji; SUZUKI, Hayato; IKEYA, Minako; TAKAHASHI, Shohei; ITO, Suguru
- 1PB-083** Evaluating photoinduced energy transfer efficiency of conjugated linkers using diarylethene as a probe (Grad. Sch. Eng., Kyoto Univ.) ○NISHIMURA, Tetsuya; SHIMIZU, Daiki; MATSUDA, Kenji
- 1PB-084** Circularly polarized luminescence properties of cyclodextrin derivatives with polycyclic aromatic compounds (Grad. Sch. Eng., Osaka Univ.) ○YAMADA, Shintaro; SHIGEMITSU, Hajime; KAWAKAMI, Kousei; MORI, Tadashi; KIDA, Toshiyuki
- 1PB-085[#]** Quenching and Suppression of Ergosterol (Provitamin D₂)-Photosensitized Singlet Oxygen Generation by Vitamin E and its Analog (Grad. Fac. Eng., Yokohama Natl. Univ.) ○IIKUBO, Yukiya; YAGI, Mikio; KIKUCHI, Azusa
- 1PB-086[#]** Quenching and Suppression of Pyridoxal 5'-Phosphate (Active Form of Vitamin B₆)-Sensitized Singlet Oxygen Generation by Vitamin Analogs (Grad. Fac. Eng., Yokohama Natl. Univ.) ○TOYOKAWA, Shotaro; YAGI, Mikio; KIKUCHI, Azusa
- 1PB-087[#]** Quenching and Suppression of Riboflavin-Photosensitized Singlet Oxygen Generation by Purines (Grad. Fac. Eng., Yokohama Natl. Univ.) ○MATSUBARA, Kouna; YAGI, Mikio; KIKUCHI, Azusa
- 1PB-088** Synthesis of new BODIPY derivatives and evaluation of AIE properties (Grad. Sch. Sci. Eng., Tokyo Denki Univ.) ○FURUSAWA, Sho; ADACHI, Naoya

Molecular Recognition

- 1PB-089** Synthesis of a diamidine having a 9-(diphenylmethylene)xanthene unit (KIT) ○UENISHI, Ryota; TSUJIMOTO, Shinya; KUSUKAWA, Takahiro
- 1PB-090[#]** Synthesis and Properties of a 2,2'-Bis(6-methyl-1,4-dithiafulven-6-yl)-3,3'-bithienyl Derivative Containing Fused Dihydrobenzodithiocin rings (Fac. Sci., Shinshu Univ.) ○KIM, Saya; OHTA, Akira
- 1PB-091** Synthesis of a Diamidine Having a Tetraarylethylene Unit with an extended π -conjugation (KIT) ○NAKAJIMA, Akane; NAKAGAWA, Ayaka; KUSUKAWA, Takahiro
- 1PB-092[#]** Synthesis and Properties of a 9,10-Bis(1,3-dithiol-2-ylidene)-9,10-dihydroanthracene Derivative Bearing Phenazinyll Groups at the 1,8-Positions (Fac. Sci., Shinshu Univ.) ○YOSHIDA, Shinichiro; OHTA, Akira
- 1PB-093** Carboxylic Acid Recognition of a Tetraamidine Based on Aggregation Induced Emission (KIT) ○YAMANA, Kazuki; HOSHIHARA, Yuki; KUSUKAWA, Takahiro
- 1PB-094** Controlling of molecular recognition ability of synthetic zinc porphyrins bearing different size of amino groups (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○NAKAMURA, Soichi; TAMIYAKI, Hitoshi
- 1PB-095** Synthesis and guest-binding properties of pH/Reduction responsive cyclophane dimers (Fac. Sci., Fukuoka Univ.) ○TANAKA, Yudai; HAYASHIDA, Osamu
- 1PB-096** Synthesis of conjugated compounds connected to urea and application to chemical sensors (Sch. Sci. Eng., Tokyo Denki Univ.) ○TAKANO, Shoki; ADACHI, Naoya

Supramolecular Chemistry

- 1PB-097** Synthesis and properties of zinc chlorophyll derivatives possessing an azobenzene moiety (Fac. Sci. Tech., Ryukoku Univ.) ○AWANO, Masaki; MIYATAKE, Tomohiro
- 1PB-098[#]** Measurement of Fullerene-Arene Interactions Using Molecular Torsion Balances (Fac. of Edu., Tokyo Gakugei Univ.) ○YAMADA, Michio; NARITA, Haruna; MAEDA, Yutaka
- 1PB-099** Synthesis and supramolecular aggregation behavior of PEG-linked cyclophane dimers (Fac. Sci., Fukuoka Univ.) ○TOMITA, Tensho; HAYASHIDA, Osamu
- 1PB-100** Synthesis and gelation ability of 1,3,5-triphenylbenzene-based novel low-molecular-weight organic gelators (Chiba Inst. of Tech.) ○TANAKA, Mao; SHIMASAKI, Tosiaki; TERAMOTO, Naozumi; HARAGUCHI, Ryosuke; SHIBATA, Mitsuhito
- 1PB-101[#]** DNA Intrusion into Lipid Bilayer of Giant Vesicle-based Protocell (Fac. Sci., Kanagawa Univ.) ○HIRATA, Yuiko; MATSUO, Muneyuki; KURIHARA, Kensuke; NONAKA, Shigenori; SUZUKI, Kentaro; SUGAWARA, Tadashi
- 1PB-102** Self-assembly of carbazole-based flexible bridging ligands (Fac. Sci., TUS) ○OSUMI, Ayumi; YUASA, Junpei
- 1PB-103[#]** Roles of Metal-Acetylene Interaction on Oligomerization of Triarylmethane-Piled Subunits (Grad. Sch. Eng., The Univ. of Tokyo) ○HOMMA, Takuma; ABE, Masahiro; DOMOTO, Yuya; FUJITA, Makoto
- 1PB-104** Substituent Effects on the Pseudorotaxane Formation of C_{3v} -symmetric Macroyclic BODIPY Trimers (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba; TREMS, Univ. of Tsukuba) ○TAN, Tiancheng; MATSUOKA, Ryota; NABESHIMA, Tatsuya
- 1PB-105[#]** Chemical modification of a metal-peptide torus knot molecule (Grad. Sch. Eng., The Univ. of Tokyo) ○HAYAKAWA, Akihiro; INOMATA, Yuuki; SAWADA, Tomohisa; FUJITA, Makoto
- 1PB-106[#]** Structures of silver complexes of a tetra-armed cyclen having pyridylmethyl side arms : depending on counter anion, host-guest mole ratio, and solvent dependence (Fac. Sci., Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.; Research Center for Materials with Integrated Properties, Toho Univ.) ○HAYANO, Miho; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 1PB-107[#]** The synthesis of ladder-type naphthalene diimide dimer and recognition of polycyclic aromatic hydrocarbons (ICYS, NIMS) ○MIHARA, Nozomi; TAKEUCHI, Masayuki
- 1PB-108[#]** Synthesis and photoisomerization behavior by visible light irradiation of a molecular motor with Ru(bpy)₃ chromophore side arms (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.) ○TAKENAKA, Moe; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; HABATA, Yoichi; KUWAHARA, Shunsuke
- 1PB-109** Synthesis and Chiroptical Properties of Cyclodextrin-Polyfluorene Conjugates (Sch. Sci., Tokyo Tech.; PRESTO, JST) ○NISHI, Reiya; FUKUHARA, Gaku
- 1PB-110[#]** Synthesis and self-assembly behavior of coumarin derivatives bearing amphiphilic groups (Grad. Sch. Sci., Eng., Yamagata Univ.) ○MURAYAMA, Ryota; ITO, Kazuaki
- 1PB-111[#]** Synthesis and Self-assembly of pyrene derivatives linked with naphthalenediimide bearing OEG chains (Grad. Sch. Sci., Eng., Yamagata Univ.) ○ABE, Kota; ITO, Kazuaki
- 1PB-112** Gelation behaviors of 6-monosubstituted β -cyclodextrin derivatives (Grad. Sch. Sci., Eng., Yamagata Univ.) ○NOMURA, Shunichi; SATO, Kazuki; KUMADA, Yu; KARUBE, Nobuyuku; ITO, Kazuaki

- 1PB-113** Synthesis of non-planar ligands containing phosphine and their assembly formation with zinc ions (Fac. Sci., TUS) ○HAMASHIMA, Kyosuke; YUASA, Junpei
- 1PB-114[#]** Introvertedly Bi-Functional Cavities Tethered to a Diaryl Hydrogen Phosphate: A Study in Synthesis and Structures (Grad. Sch. Sci. Tech., Ryukoku Univ.) ○SAKAO, Kazuki; INOUE, Mami; IWASAWA, Tetsuo
- 1PB-115[#]** Synthesis and Properties of Thienopyrrole-fused Thiadiazoles Bearing Flexible Side Chains (Sch. Eng., The Univ. of Shiga Pref.; Grad. Sch. Sci. Tech., Gunma Univ.; IMCE, Kyushu Univ.) ○NAITO, Yukako; MORIGUCHI, Ryo; HIDAI, Tomoki; SAJO, Saki; KAKIAGE, Masaki; YAMANOE, Takeshi; UEHARA, Hiroki; MATSUMOTO, Taisuke; KITAMURA, Chitoshi; KATO, Shin-ichiro
- 1PB-116[#]** Synthesis and Self-assembly of Trithiazolyltriazine and Related Derivatives Bearing Various Alkoxybenzene Moieties (Sch. Eng., The Univ. of Shiga Pref.; Grad. Sch. Sci. Tech., Gunma Univ.; IMCE, Kyushu Univ.) ○HAYASHI, Kazuhiro; KANEKO, Kengo; MATSUMOTO, Taisuke; NAKAMURA, Yosuke; HIDAI, Tomoki; SAJO, Saki; KAKIAGE, Masaki; YAMANOE, Takeshi; UEHARA, Hiroki; KITAMURA, Chitoshi; KATO, Shin-ichiro
- 1PB-117** Anion and Solvent Effects on the crystal construction of metal complex with *N*- β -Naphthyl -*N,N*-bis (4-pyridylmethyl) amine (Fac. Sci., Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.; Research Center for Materials with Integrated Properties, Toho Univ.; GNU) ○HONGU, Haruka; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; LEE, Shim Sung; KUWAHARA, Shunsuke; HABATA, Yoichi
- 1PB-118** Synthesis and LCST behavior of fluorescein derivatives linked with gallic acid bearing amphiphilic OEG chains (Grad. Sch. Sci., Eng., Yamagata Univ.) ○NOJIRI, Keigo; ITO, Kazuaki
- 1PB-119[#]** Control of inclusion ability towards alkyl diamines by metal ions in a cyclen-based cylindrical cryptand (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○OHTSUKA, Akihiro; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 1PB-120[#]** Acceleration of cyclization rate by addition of silver ion in the synthesis of an argentivorous-type cryptand (Fac. Sci., Toho Univ.; Research Center for Materials with Integrated Properties, Toho Univ.; Dept. Eng. Edu. Center, Chiba Inst. of Tech.) ○MOROZUMI, Takumi; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi
- 1PB-121** Fluorescent gel formation by conjugated oligomer - nanocarbon composite and application to chemical sensors (Sch. Sci. Eng., Tokyo Denki Univ.) ○KIMPARA, Denta; ADACHI, Naoya
- 1PB-122[#]** Synthesis of water oxidation catalysts using perylene derivatives as photosensitizing sites (Grad. Sch. Sci. Tech., Nihon Univ.) ○UEDA, Takatoshi; KUBOTA, Satoshi; SUGAWA, Kosuke; OTSUKI, Joe
- 1PB-123[#]** Control of inclusion ability towards alkyl diamines by metal ions in a cyclen-based cylindrical cryptand (Fac. Sci., Toho Univ.) ○OTSUKA, Akihiro; LEE, Eunji; JU, Huiyeong; IKEDA, Mari; KUWAHARA, Shunsuke; HABATA, Yoichi

Construction of Nano-structures and Their Properties

- 1PB-124[#]** Thermal phase transition of pseudo-polyrotaxane-based self-assembled structure (Fac. Eng., The Univ. of Tokyo) ○ANDO, Naoki; MAEDA, Rina
- 1PB-125[#]** Synthesis and Photophysics of a [c]Daisy Chain Rotaxane Encapsulating Two Diphenylacetylene Cores (Fac. Chem. Materials and Bioeng., Kansai Univ.; Osaka Dent. Univ.) ○KOMAI, Yoshitsugu; TSUDA, Susumu; NISHIYAMA, Yutaka
- 1PB-126** Synthesis of supramolecular compound using hexa-coordinated silane catecholate (Grad. Sch. Fac. Sci., Kanagawa Univ.) ○CHINO, Natsuki; KOBAYASHI, Kanta; KURIHARA, Yuta; KAWAKAMI, Yoshiteru; KABE, Yoshio
- 1PB-127[#]** Periodic Chemical Functionalization of Graphite Surface through Self-Assembled Monolayers of Alkane Derivatives as Templates (Dept. of Sci. Tech., Meiji Univ.) ○HIROSE, Shingo; KANEKO, Hiromasa; DE FEYTER, Steven; TAHARA, Kazukuni
- 1PB-128[#]** Self-assembly behavior of amphiphilic amino-acid-based diamide dimer in aqueous media (Sch. Sci., Nagoya Univ.; WPI-ITbM, Nagoya Univ.) ○KAWASHIRO, Midori; FUKAYA, Natsumi; OGI, Soichiro; YAMAGUCHI, Shigehiro
- 1PB-129** Absorption spectrum and color change by redox reaction using porphyrin and phthalocyanine complexes. (Grad. Sch. Med., Eng., Univ. of Yamanashi; Fac. Eng., Univ. of Yamanashi) ○HASHIMOTO, Naoki; TSUKADA, Yoshiki; UMETSU, Yuria; OGAWA, Kazuya
- 1PB-130** An Explanation of Liquid Densities of Fluoro Substituted Benzens (Sch. Eng., Tokyo Univ. of Tech.) ○ITO, Masaki; KATAGIRI, Toshimasa
- 1PB-131** Assembling structures of α -substituted phthalocyanines with different substitute positions (Fac. Textile Sci. Technol., Shinshu Univ.) ○KUDO, Ryota; KITAZAWA, Yu; KIMURA, Mutsumi
- 1PB-132** Characterization of Electrochemical Properties of Hexaazatriphenylene-derivative HATCNO_n (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○FUJIWARA, Makoto; NAKAO, Keisuke; TOSHIMA, Hiroki; SHIMIZU, Takeshi; YOSHIKAWA, Hirofumi; TANAKA, Daisuke

Polymer

- 1PB-135[#]** Controlled Radical Polymerization of Various Functional Vinyl Ethers (Grad. Sch. Eng., Univ. of Fukui) ○KANDA, Shiori; SUGIHARA, Shinji
- 1PB-136** Synthesis of Star-Type Liquid-Crystalline Polymers and Preparation of the Porous Films by Breath-Figure Method (Grad. Sch. Sci., TUS) ○TAKAHASHI, Kazuki; NAKA, Yumiko
- 1PB-137[#]** Isomerization Cationic Polymerization of Dihydropyran Derivatives for Alternating Sequence Control (Grad. Sch. Eng., Univ. of Fukui) ○YASUDA, Sotaro; SUGIHARA, Sinji
- 1PB-138** Curing of epoxy-acid anhydride with TBD as a reaction accelerator (Fac. Eng., OIT) ○SHIMOMURA, Osamu; SASAKI, Suguru; KUME, Kaori; OHTAKA, Atsush; NOMURA, Ryoki
- 1PB-139** The effect of the sterically bulky structure of epoxide monomer on the reactivity of copolymerization of CO₂ and epoxide (Fac. Eng., TUS) OKAWA, Tomoya; EBIHARA, Takuya; ○HONDA, Masayoshi; SUGIMOTO, Hiroshi
- 1PB-140** Synthesis of Conjugated Polymers by Cycloaddition Polymerization (Dept. CTE. Chem., NIT, Anan College) ○KIMURA, Tomoya; HAMANAKA, Miu; KUWAHARA, Tomoya; SUGIYAMA, Yu-ki
- 1PB-141[#]** Development of dual-mode coupling polymerization by a low-valent titanium reagent Ti(O-*i*-Pr)₄/Me₃SiCl/Mg (Grad. Sch. Eng., Kanagawa Univ.) ○KIMURA, Yuya; KIKUTA, Nana; YASUDA, Yosuke; UCHIDA, Takaya; YAMADA, Takeshi; OKAMOTO, Sentaro
- 1PB-142** Fabrication of hydroxyapatite immobilized polyurethane with silicone polymer containing silanol residue (Coll. Eng., Chubu Univ.) ○LI, Zelin; HABAUE, Shigeki
- 1PB-143[#]** Syntheses of conjugated polymers containing phosphole by using Pd-catalyst (Grad. Sch. Eng., Nagoya Inst. of Tech.) ○TANAKA, Shohei; SUZUKI, Masato; TAKAGI, Koji; MATSUOKA, Shinichi
- 1PB-144** Synthesis of bottlebrush type polymers and effect of the polymer architecture on environmental responsivity of their hydrophobic surfaces (NAIST; Daikin Industries, Ltd.) ○MURASE, Nobuo; ANDO, Tsuyoshi; SHIBUTANI, Shota; TANAKA, Yoshito; KAWABE, Takuma
- 1PB-145** Self-assembling and rheological properties of star polymers with a Janus triptycene junction (Lab. Chem. Life Sci., Tokyo Tech.) ○OGIWARA, Hibiki; ISHIWARI, Fumitaka; YAMASHITA, Yukihiro; KIMURA, Tadahiro; KAJITANI, Takashi; TOKITA, Masatoshi; FUKUSHIMS, Takanori
- 1PB-146** Macromolecular Helicity Induction and Memory in Poly(biphenylacetylene)s Accompanied by Time-Dependent Helicity Inversion (Grad. Sch. Nat. Sci. Technol., Kanazawa Univ.) ○FUKUDA, Mayu; HIROSE, Daisuke; TANIGUCHI, Tsuyoshi; NISHIMURA, Tatsuya; YASHIMA, Eiji; MAEDA, Katsuhiko
- 1PB-147** Functionalization of amphiphilic block copolymer by Knoevenagel condensation (Dept. Appl. Chem., Nat. Def. Acad.) ○YAMAMOTO, Shin-ichi; ENDO, Yoshinori; HAYASHI, Shotaro; KOIZUMI, Toshio
- 1PB-148** Studies on One-Pot Synthesis and Helical Induction of Alternating Peptide (Fac. Eng., Toyama Pref. Univ.) ○TANIGUCHI, Masataka; IHSAN, Abu Bin; KOYAMA, Yasuhito
- 1PB-149** Structural design of organic porous material by multi-scale simulation (Hitachi, Ltd.; Hitachi Chemical Company, Ltd.) ○UEDA, Atsuko; MATSUMOTO, Shigenori; INUI, Yuji; KOBAYASHI, Yuzuru; MAKINO, Tatsuya; ZHANG, Chenxia
- 1PB-150[#]** Surface Structure Control of Functionalized Polymer Films (Grad. Sch. Eng., Oita Univ.) ○KAWAI, Haruki; NATA, Masanori; UJIE, Seiji
- 1PB-151** Influence of Hydrogen Binding on Phase transitions in Calamitic-Mesogenic-Group containing Main-Chain Polymers (Grad. Sch. Eng., Oita Univ.) ○ONO, Ryohei; WATANABE, Taiki; NATA, Masanori; UJIE, Seiji
- 1PB-152** Mechanical properties evaluation of heterogeneous mixed polymer material using movable cross-linked network (Grad. Sch. Sci., Osaka Univ.; IACS, Osaka Univ.; ISIR, Osaka Univ.) ○KAWAI, Yusaku; IKURA, Ryohei; YAMAGUCHI, Hiroyasu; HARADA, Akira; TAKASHIMA, Yoshinori
- 1PB-153** Synthesis, flow induced crystallization and hydrolysis behavior of polydioxanone and its copolymers (Grad. Sch. Env. Life Sci., Okayama Univ.) ○HAYASHI, Akihiro; KIMURA, Kunio; YAMAZAKI, Shinichi; ATARASHI, Hironori
- 1PB-154[#]** Relationship between Side-Chain Structure and Liquid Crystal Formation on Liquid Crystalline Polymers with Hydrophilic Skeletal Main-Chain (Grad. Sch. Eng., Oita Univ.) ○SANNOMIYA, Ayaka; NATA, Masanori; UJIE, Seiji
- 1PB-155** Photooxidative coupling of thiols by heterogeneous chitosan-immobilized flavin catalyst (Fac. Sci. Eng., Shimane Univ.) ○KATSUBE, Daichi; OKA, Marina; IIDA, Hiroki
- 1PB-156** C-C Coupling Reaction on fluid consecutive reactor packed with nanostructured palladium catalyst (Dept. of Material & Life Chem., Kanagawa Univ.) ○MATSUO, Kazuki; KAIKAKE, Katsuya; JIN, Ren-hua
- 1PB-157** Nanostructured Polythiophene in Metal-Organic Frameworks for Photocatalysis (Grad. Sch. Eng., The Univ. of Tokyo) ○SANNO, Hiroyuki; KITAO, Takashi; UEMURA, Takashi
- 1PB-158** investigation of correlation between photoisomerization of spiropyran and phase-separated structure of block copolymers (Fac. Eng., Hiroshima Univ.) ○MOMOTA, Kouki; IMATO, Keiichi; IMAE, Ichiro; OYOYAMA, Yosuke
- 1PB-159** Photoinactivation of liquid crystalline polymer films with N-Benzylideneaniline side groups and regeneration of N-benzylideneaniline (Grad. Sch. Eng., Univ. of Hyogo) ○NISHIZONO, Toshiki; KONDOU, Mizuho; KAWATSUKI, Nobuhiro
- 1PB-160** Change in optical property and molecular orientation of liquid crystalline polymer films containing N-benzylideneaniline side chain (Grad. Sch. Eng., Univ. of Hyogo) ○ITO, Akari; KONDOU, Mizuho; KAWATSUKI, Nobuhiro
- 1PB-161** Investigation of the thermal resistance of the chain-end modified polylactide film during degradation process (Grad. Sch. Sci. & Tech., NAIST) ○ASANO, Shin; CHANTHASET, Nalinthip; AJIRO, Hiroharu
- 1PB-162** Preparation of amphiphilic glycopolymer (NIT, Toyama College) ○FUKUDA, Tomohiro
- 1PB-163** Development of Supramolecular Materials Formed from Gelatin and Application to 3D Scaffolds (Sch. Sci., Osaka Univ.) ○MATSUDA, Mami; MITAKE, Nodoka; TAKASHIMA, Yoshinori; NAKAHATA, Masaki; YAMAGUTI, Hiroyasu; HARADA, Akira; TANAKA, Motomu
- 1PB-164** Measurement of Enzyme Activity of Released-protein from the Polyethylene glycol-containing Silica-Cholesterol-bearing Hyaluronic Acid Nanogel Hybrid Hydrogel (Multidisciplinary Eng. Course, NIT, Numazu College) ○MASUDA, Yu; YAMANE, Setsuko; OHNUMA, Kiyoshi; SAWADA, Shin-ichi; SASAKI, Yoshihiro; AKIYOSHI, Kazunari
- 1PB-165[#]** Synthesis and properties of novel polyfuran free-standing membranes using Brønsted acid catalyst (Grad. Sch. Eng., Tokyo City Univ.) ○TAMAKAWA, Shuta; OOTAKI, Keito; NAGAHATA, Hiroki; MORI, Naoto; SHIOTSUKI, Masashi
- 1PB-166[#]** Synthesis and properties of unconjugated polythiophene given in polyaddition reaction of thiophene monomer mediated by Brønsted acid (Grad. Sch. Eng., Tokyo City Univ.) ○NAGAHATA, Hiroki; OTAKI, Keito; MORI, Naoto; YOSHIZAWA, Takahumi; TAMAKAWA, Syuta; SHIOTSUKI, Masashi
- 1PB-167[#]** Development of polymer membranes which contains host molecules with the ability to recognize p-nonylphenol (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○SAITOU, Yuma; NAKAZIMA, Shogo; SATO, Kumiko; KIKUCHI, Yasuaki
- 1PB-168** Creation of liquid crystal / polymer weak anchoring interface using silane coupling agent (Grad. Sch. Eng. Sci., Kyushu Univ.) ○ARIMURA, Yuna; OKUMURA, Yasushi; KIKUCHI, Hirotsugu
- 1PB-169[#]** Selective adsorption of environmental pollutant by polyethyl acrylate membranes obtained by bulk polymerization of ethyl acrylate in the presence of cyclodextrin (Grad. Sch. Sci., Osaka Univ.) ○KOBAYASHI, Yuichiro; TAKASHIMA, Yoshinori; YAMAGUCHI, Hiroyasu; HARADA, Akira
- 1PB-170** One pot gel preparation using N-vinylamides and alkyl acrylates to evaluate adhesive properties (Grad. Sch. Sci. & Tech., NAIST) ○MIYAJI, Yumi; KAWATANI, Ryo; CHOI, Jaeyeong; NALINTHIP, Chanthaset; NAKAI, Yukako; FUKUSHIMA, Masayuki; AJIRO, Hiroharu
- 1PB-171** Mechanical properties of redox responsive supramolecular hydrogels and the dependence of the water contents (Sch. Sci., Osaka Univ.) ○UEDA, Chiharu; KONISHI, Subaru; IKURA, Ryohei; OSAKI, Motofumi; YAMAGUCHI, Hiroyasu; HARADA, Akira; IKEMOTO, Yuka; TANAKA, Masaru; TAKASHIMA, Yoshinori
- 1PB-172** Synthesis of multi-responsive Organic-Inorganic Hybrid-Type Interpenetrating Polymer Networks Using Silicone Polymer with Thiourea Groups (Coll. Eng., Chubu Univ.) ○SANNO, Junta; HABAUE, Shigeki
- 1PB-173[#]** Preparation of complex gel from DNA and chitosan and its application as metal ion adsorption material (Nagoya Univ.) MORIKAWA, Kohki; ○ZINCHENKO, Anatoly
- 1PB-174** Development of Refolding system for denatured Lysozyme by Molecular imprinted gels (Coll. Industrial Tech., Nihon Univ.) ○TAKAHASHI, Daisuke
- 1PB-175[#]** Development of Fluorapatite/Organic Polymer Hybrid Thin Film with Self-Organized Regularly Patterned Structures (Grad. Sch. Eng., The Univ. of Tokyo) ○MATSUMOTO, Yuko; SAKAMOTO, Takeshi; KATO, Takashi
- 1PB-176** Synthesis and photocatalytic activity of titanium oxide / Ag prepared by PEI micro-spheres (Dept. of Material & Life Chem., Kanagawa Univ.) ○NISHIYAMA, Misato; KAIKAKE, Katsuya; JIN, Ren-hua
- 1PB-177[#]** Synthesis and properties of thermo-responsive tooth-brush like copolymer consisted of PNIPAM and chiral-oxazoline side-chain (Grad. Sch. Eng., Kanagawa Univ.) ○TAKEBUCHI, Haruka; JIN, Ren-hua
- 1PB-178[#]** Synthesis and properties of optically active cyclic polyoxazoline via two-end functionalization (Dept. of Material & Life Chem., Kanagawa Univ.) ○ITOGA, Ryo; WANG, Wen-li; JIN, Ren-hua
- 1PB-179** phase separation behavior of comb-coil block copolymers composed by hydrophobic poly (n-alkyloxazolines) and thermal responsive PNIPAM blocks (Dept. of Material & Life Chem., Kanagawa Univ.) ○SHIGEMITU, Hiroaki; WANG, Wen-li; JIN, Ren-hua
- 1PB-180** Preparation of chiral silica nanoparticles using a downsized chiral template (Dept. of Material & Life Chem., Kanagawa Univ.) ○FUKUMOTO, Shiori; OHTA, Kei; TSUNEGA, Seiji; KAIKAKE, Katsuya; JIN, Ren-hua
- 1PB-181** Synthesis of chiral silica using malic acid as an asymmetric source (Dept. of Material & Life Chem., Kanagawa Univ.) ○MUKAIYAMA,

- Haruki; TSUNEGA, Seiji; KAIKAKE, Katsuya; JIN, Ren-hua
- 1PB-182** Silver Nanowire Structures Assembled by Photopolymerization (KIT) ○TANAKA, Hayato; TSUJIAI, Shogo; KAWABATA, Yuto; NAKANISHI, Hideyuki; NORISUYE, Tomohisa; TRAN-CONG-MIYATA, Qui
- 1PB-183[#]** Preparation and properties of the cellulose hydrogel from garlic disposal part (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○TAGUCHI, Rio; SATO, Kumiko; KIKUCHI, Yasuaki
- 1PB-184[#]** Nanocellulose Biosynthesis by *Gluconacetobacter xylinus* bacteria using Homogenized Okara as a Nutrient Source (Fac. Eng., Nagaoka Univ. of Tech.) ○NAKSON, Nawachon; TAOKAEW, Siriporn; KOBAYASHI, Takaomi
- 1PB-185[#]** Ductile Bioplastic Composites of Polycinnamoyls with Poly(butylene succinate) (Sch. Mat. Sci., JAIST) ○SINGH, Maninder; KANEKO, Tatsuo
- 1PB-186** Photofading of Nile red in polyurethane (Fac. Sci. Eng., Toyo Univ.) ○KATOU, Takashi; TAJIMA, Masahiro; MATSUNAGA, Katsuji

Monday, March 23, AM

(10 : 00~11 : 30)

Inorganic Chemistry

- 2PA-001** Effect of amines on sol-gel reaction of zinc acetate (Grad. Sch. Integr. Sci. and Eng., Tokyo City Univ.; Sch. Eng., Tokyo City Univ.; Inoue Calcium Corp.) ○AKIMOTO, Yuta; YABUKI, Honoka; IWAMURA, Takeru; HASHIMOTO, Yoshikuni
- 2PA-002** Effect of mica addition on the formation of α -alumina from polyhydroxoaluminum composite gels. (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○TSUJI, Naoya; YAMAGUCHI, Tomohiro; TARUTA, Seichi
- 2PA-003** Synthesis and morphology control of swellable Li-taeniolite mica. (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○MANIWA, Mizuki; TAMAGUCHI, Tomohiro; TARUTA, Seichi
- 2PA-004** Synthesis of Mg-Al Layered Double Hydroxides having large basal spacings from polyhydroxoaluminum complex solutions and organic species (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○WATANABE, Shohei; YAMAGUCHI, Tomohiro; TARUTA, Seichi
- 2PA-005** Synthesis of fluorine paragonite mica ceramics and LiCl aqueous solution treatment to provide swellability (Grad. Sch. Sci. Technol., Shinshu Univ.; Fac. Eng., Shinshu Univ.) ○HARADA, Asahi; YAMAGUCHI, Tomohiro; TARUTA, Seichi

Structures and properties of inorganic compounds

- 2PA-006** Preparation of Fe-containing carbon fibers obtained through electrospinning method (Grad. Sch. Eng., Oita Univ.) ○MORIYASU, Yuki; TSUMURA, Tomoki; TOYODA, Masahiro
- 2PA-007** Preparation of Co-containing carbon fibers obtained through electrospinning method (Grad. Sch. Eng., Oita Univ.) ○OCHI, Genki; TSUMURA, Tomoki; TOYODA, Masahiro

Solid state chemistry

- 2PA-008[#]** $\text{LnFe}_4\text{Ti}_3\text{O}_{12}$ - New perovskite materials with A- and B-site Fe cations (ICR, Kyoto Univ.) ○DENIS ROMERO, Fabio; AMANO PATINO, Midori E; TAN, Zhenhong; ATTFIELD, J Paul; SHIMAKAWA, Yuichi
- 2PA-009** Synthesis by MM method and ionic conductivity of Li^+ solid electrolyte $\text{Li}_{3-x}(\text{OH})_x\text{X}$ ($\text{X}=\text{Cl}, \text{Br}$) (Grad. Sch. Industrial Tech., Nihon Univ.) ○FUKUSHIMA, Yoshihiro; YAMANE, Yohei; YAMADA, Koji; NAKAGAMA, Tatsuro

Polyoxometalate

- 2PA-010[#]** Hollow-Type Polyoxometalate $\{\text{Mo}_{132}\}$ of Inner Space Modification and Inclusion Behavior (Grad. Sch. Env. Sci., Hokkaido Univ.) ○MURATA, Chinatsu; SHICHIBU, Yukatsu; KONISHI, Katsuki

Layered Materials

- 2PA-011[#]** Preparation of Layer Structured Niobate KNb_3O_8 and Ion Exchange Products (NIT, Tokuyama College) ○OHASHI, Masao
- 2PA-012** Fabrication of Boron-Doped SiC Electrode and Characterization of Electrochemical Property (Grad. Sch. Sci. Tech., Keio Univ.) ○UCHIYAMA, Kazuki; YAMAMOTO, Takashi; EINAGA, Yasuaki
- 2PA-013[#]** Synthesis of niobate nanosheets and the structural color of their aqueous dispersion (MANA, NIMS) ○KIKUCHI, Takayuki; IYI, Nobuo; EBINA, Yasuo; SASAKI, Takayohi
- 2PA-014[#]** The consideration on the interlayer gallery height of sodium synthetic mica for the cesium ion exchange (Showa Pharm. Univ.) ○SUZUKI, Noriko; KANZAKI, Yasushi
- 2PA-015[#]** A study on lateral size control of manganese oxide nanosheets (Grad. Sch. Fac. Sci. Technol., TUS; MANA, NIMS) ○YANO, Hitomi; OKOSHI, Haruka; AIMI, Akihisa; FUJIMOTO, Kenjiro; SASAKI,

Takayoshi

Physical Organic Chemistry Reaction Mechanism

- 2PA-017[#]** Evaluation of Catalytic Capability of *cis*- and *trans*-Diquinoxaline Spanned Cavitands (Fac. Sci. Tech., Ryukoku Univ.) ○KAMIGUCHI, Shinsuke; INOUE, Mami; IWASAWA, Tetsuo
- 2PA-018** Synthesis of organic dyes having electron transfer-driven elimination properties (Fac. Sci., TUS) ○OWATARI, Yoshihiro; YUASA, Junpei
- 2PA-019[#]** Theoretical study of the side reactions of the catalytic conversion of ethanol to butadiene (CD-FMat, AIST) ○KAYANUMA, Megumi; MIYAZAWA, Tomohisa; TANABE, Yusuke; FUJITANI, Tadahiroy; CHOE, Yoong-kee
- 2PA-020** DFT Calculation on the Novel Reactivity of Cationic Lithium Cluster (Fac. Textile Sci. Technol., Shinshu Univ.) ○OHGAMI, Yoshino; KIMURA, Mutsumi; UCHIYAMA, Masanobu; KITAZAWA, Yu

Materials Chemistry

Inorganic Materials

- 2PA-023[#]** Electrochemical properties of Co-Mo-S chalcogenides prepared by a cross-linking reaction of cobalt (II) ions with tetrathiomolybdate ions (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○KITAZAWA, Nobuaki
- 2PA-024** Hydrothermal synthesis of NASICON-type Magnesium Titanium Phosphates and related compounds (Fac. Sci., Kochi Univ.) ○SHIMANOUCHI, Rie; FUKUNAGA, Yoshimi; KIDOWAKI, Yumi
- 2PA-025** Development of new green inorganic pigment based on $\text{In}_2\text{Cu}_2\text{O}_5$ (Kobe City Coll. Technol.) ○NOGATA, Akira; YASUDA, Keisuke
- 2PA-026** Water resistance test of inorganic paints based on potassium silicate (SIST) ○TRIEU, Tranxuan; YAMAZAKI, Satoshi; MATSUYAMA, Yuji; NISHINO, Hideki; ISOBE, Hiroshi
- 2PA-027[#]** Crystal structure and optical properties of whitish pollucite blue phosphor (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○ARUGA, Atsushi; YOSHIMOTO, Koki; UEDA, Yuta; SHIMONO, Seiya; KISHIMURA, Hiroaki

Organic/polymeric Materials

- 2PA-028[#]** Preparation of novel phenolic resin derivatives with superior solubility in organic solvents (Kobe City Coll. Technol.) ○HIGUCHI, Makoto; ISHIDUKA, Hiroto; NEMOTO, Tadamasu
- 2PA-029[#]** Preparation of novel polymer brushes based on phenol derivatives (Kobe City Coll. Technol.) ○NAKANO, Moeki; NEMOTO, Tadamasu
- 2PA-030[#]** Preparation and properties of photo responsible circular polarized materials (Research Support Center, Kagoshima Univ.) ○SAWADA, Tsuyoshi; KUBO, Shingo; NANAMURA, Kazuaki
- 2PA-031[#]** Space Resolution Fluorescence Analysis of Elastic Organic Crystals based on Anthracenes (Dept. Appl. Chem., Nat. Def. Acad.) ○MIKAGE, Shohei; YAMAMOTO, Shin-ichi; KOIZUMI, Toshio; HAYASHI, Shotaro
- 2PA-032[#]** Synthesis and properties of covalent organic frameworks having alkyl sulfonic acids (Fac. Sci., TUS) ○TAKETOMI, Hirotaka; SADAKEYO, Masaaki
- 2PA-033[#]** Heat plasticizing behavior of dry gelatin (Grad. Sch. Sci. Eng., Tokyo Denki Univ.) ○KIKUCHI, Yuya; YUNOKI, Shunji; NARITA, Takefumi; SUGIMOTO, Kiyoji; MURAMATSU, Kazuaki
- 2PA-034[#]** Preparation of infrared-responsive poly(acrylamide-co-butyl methacrylate)/polyacrylic acid/carbon nanotube composite gels (Sch. Sci. Eng., CIST) ○TAKADA, Tomoya
- 2PA-035** Synthesis of poly(trimethylene carbonate) derivative bearing triphenylmethyl group with ester free structure (Grad. Sch. Sci. & Tech., NAIST) ○MAEHARA, Akari; CHANTHASET, Nalinthip; AJIRO, Hiroharu
- 2PA-036[#]** A series of pyridyl-functionalized diazaphthalenes for the construction of electroactive materials (Sch. Sci., Tokyo Tech.) ○ASADA, Nanami; USOV, Pavel; OHTSU, Hiroyoshi; KAWANO, Masaki
- 2PA-037[#]** Physical properties evaluation of P3HT particles made by polymer alloy method (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○FUKUMATSU, Takahiro; SHIRASAWA, Non; SAITO, Takayuki
- 2PA-038** Development of a fullerene bisadduct with high dielectric constant (ORIST) ○MATSUMOTO, Fukashi; SUMINO, Shuhei; IWAI, Toshiyuki; ITO, Takatoshi
- 2PA-039[#]** Ferroelectric and carrier transport properties of liquid-crystalline binary mixtures composed of oligothiophene derivatives (RCFM, NIMS) ○SEKI, Atsushi; MORI, Yuki; FUNAHASHI, Masahiro; YOSHIO, Masafumi
- 2PA-040** Amphiphilic Mesogenic Polymers having Oligomeric Side-Chains with Rigid-Rod Terminal Group (Fac. Eng., Oita Univ.) ○SAMURA, Riho; KAWAI, Haruki; IWAMI, Yuko; UJIE, Seiji
- 2PA-041[#]** Effects of Hydrogen Bonds and Ionic Interactions on Orientational Behavior of Main-chain Polymers with Mesogenic Groups (Fac. Eng., Oita Univ.) ○KURAHASHI, Ryo; ONO, Ryohei; WATANABE, Taiki; NATA, Masanori; UJIE, Seiji
- 2PA-042[#]** Phase Transitions of (Polymer/Polar Molecule)Binary Liquid Crystals with Enhanced Orientational Order within the Smectic Layer (Grad. Sch. Eng., Oita Univ.) ○NAKAGAWA, Shougo; IWAMI, Yuko; UJIE, Seiji

- 2PA-043** Effect of Monomer Structure in Uniaxial Molecular Alignment Induced by Scanning Wave Photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.) ○ISHIYAMA, Takuto; OTA, Megumi; KOBAYASHI, Yoshiaki; AKAMATSU, Norihisa; SHISHIDO, Atsushi
- 2PA-044** Self-Assembly Behavior of Periodic Polymer Structure by Scanning Wave Photopolymerization (Lab. Chem. Life Sci., Tokyo Tech.; Fac. Sci., TUS) ○NAKAMURA, Hirona; OTA, Megumi; KOBAYASHI, Yoshiaki; AIZAWA, Miho; AKAMATSU, Norihisa; SASAKI, Takeo; SHISHIDO, Atsushi
- 2PA-045[#]** Preparation of Composite Materials Consisting of Monocationic Porphyrin Derivatives and Nanocarbons: Interaction and Stability (ORIST) ○TAKAO, Yuko; MORIWAKI, Kazuyuki; OHNO, Toshinobu
- 2PA-046** Preparation of fullerenes mixture-ethylenediamine adducts and their application for electron transfer materials (Sch. Eng., The Univ. of Shiga Pref.) ○YAMAZAKI, Seigo; AKIYAMA, Tsuyoshi; KATO, Shin-ichiro; SUZUKI, Kazumasa; OKU, Takeo

Hybrid Materials

- 2PA-047** Development of red fluorescent hybrid consists of clay and bis(styryl) benzene derivatives for random laser medium (Fac. Sci., Yamaguchi Univ.) ○DOMOTO, Mariko; ONISHI, Syozo; SUZUKI, Yasutaka; KAWAMATA, Jun
- 2PA-048[#]** Fabrication of biodegradable film using chitosan and Poly(trimethylene carbonate) (Grad. Sch. Sci. & Tech., NAIST) ○KOICHI, Irikura; NALINTHIP, Chanthaset; CHANTIGA, Choochottiros; HIROHARU, Ajiro
- 2PA-049[#]** Development of organic-inorganic polymer hybrids based on flexible phenolic resins derivatives (Kobe City Coll. Technol.) ○KIKUKAWA, Tsruji; NEMOTO, Tadamasu
- 2PA-050** Preparation and hydrogen sorption property of metal-carbon composites (Grad. Sch. Sci. Tech., Yamaguchi Univ.) KAWAMURA, Kohei; MIYOSHI, Rio; ○SAKATA, Yoshihisa
- 2PA-051** Observation of Charge/Discharge Process in Sn₄P₃ Anode for Sodium-Ion Batteries by ²³Na, ³¹P NMR (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○YOSHIMURA, Yu; GOTOH, Kazuma; HASHI, Kenjiro; SHIMIZU, Tadashi; ISHIDA, Hiroyuki

Carbon Materials

- 2PA-052[#]** Effect of the metal substrate on synthesis of boron doped diamond by arc discharge (NIT, Hachinohe College) SATO, Tomoya; HIRAI, Taisei; FUKUMATSU, Takahiro; ○SAITO, Takayuki
- 2PA-053[#]** Effect of the substrate on synthesis of nano crystal diamond by arc discharge (Dept. of Chem. & Bio. Eng., NIT, Hachinohe College) ○ISHIOKA, Yugo; DEMACHI, Ikumi; HAMADA, Mai; FUKUMATSU, Takahiro; SAITO, Takayuki
- 2PA-054[#]** Controlled release of antibacterial molecules from graphene oxide by functional group modification (Grad. Sch. Nat. Sci. Technol., Okayama Univ.) ○FUJII, Ryosuke; NISHINA, Yuta
- 2PA-055** The production of carbon nanotubes using biogenic iron oxide (Fac. Sci., Okayama Univ.) ○HIRAI, Takuya; GOTOH, Kazuma; NISHINA, Yuta; URITA, Koki; TAKADA, Jun; ISHIDA, Hiroyuki
- 2PA-056[#]** Selective Dispersion of Semiconducting Single-Walled Carbon Nanotube using the Photoresponsive Dispersant (Grad. Sch. Sci. Tech., Nihon Univ.; RISC, AIST) ○OKUMURA, Ryoya; AOYAGI, Takao; JINTOKU, Hirokuni; MATSUZAWA, Yoko
- 2PA-057[#]** Development of graphene-chelate molecule composites enabling selective metal removal (Fac. of Eng., Okayama Univ.; Fac. of Eng., Okayama Univ.) ○SHIBAHARA, Risa; NISHINA, Yuta
- 2PA-058[#]** Redox reaction of carbon electrodes containing molecular radicals (RCIS, Okayama Univ.) ○KUBO, Koichiro; NISHINA, Yuta
- 2PA-059[#]** Bottom-up approach for the production of functional nanocarbons (RCIS, Okayama Univ.) ○ZHOU, Yang; NISHINA, Yuta

Low dimensional Materials

- 2PA-060[#]** SERS properties of Ag colloidal particles deposited on Cu foil (Fac. Eng., OIT) TANAHASHI, Ichiro; ○UNE, Yoshiyuki
- 2PA-061[#]** Hybrid Thermoelectric Materials Containing Carbon Nanotubes and Silver Nanoparticles (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○SHIRAISHI, Yukihide; KUSADA, Mokichi; KISHITA, Shohei; TAGUCHI, Kazuki; HATA, Shimichi; TOSHIMA, Naoki
- 2PA-062[#]** Photo-doping of Single-Walled Carbon Nanotube Film with Photo Acid Generator (Grad. Sch. Sci. Eng., Chiba Univ.) ○MIYAUCHI, Yuma; AOAI, Toshiaki; TAKAHARA, Shigeru
- 2PA-063[#]** Sharpening and surface engineering on metal nanowires (Grad. Sch. Info. Sci. Tech., Hokkaido Univ.) ○AKASHI, Taiki; UJI-I, Hiroshi; HIRAI, Kenji; INOSE, Tomoko
- 2PA-064** Preparation and application of FeNi nanowires by liquid-phase reduction (Unitika LTD. R&D Center) ○TAKEDA, Hirotaka; YAMADA, Kazunobu
- 2PA-065[#]** Determination of the reduction potential of polyol/alcohol using molecular orbital calculations (Sch. Eng., The Univ. of Shiga Pref.) ○ISHIJIMA, Masanao; KANEKO, Hisashi; MATSUMOTO, Takatoshi; JHON, Cuya; SUZUKI, Kazumasa; MIYAMURA, Hiroshi;

BALACHANDRAN, Jeyadevan

Ionic Liquids, others

- 2PA-066** Synthesis of Photoreactive Ionic Liquids Containing Rhenium Complexes (Grad. Sch. Sci., Kobe Univ.) ○CHO, Sokyong; MOCHIDA, Tomoyuki
- 2PA-067** Development of Ionic Liquids from Photoreactive Sandwich-type Complexes with Thioether Groups (Grad. Sch. Sci., Kobe Univ.) ○FAN, Rong; SUMITANI, Ryou; MOCHIDA, Tomoyuki
- 2PA-068** Formation of copper-plated fine wiring on PTFE substrate using Cu catalyst and organic-inorganic hybrid resin (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○UETSUKI, Akira; OHISHI, Tomoji
- 2PA-069** Formation and properties of Cu-plated wiring on PTFE substrate using Pd catalyst and eximer light irradiation (Coll. Eng., Shibaura Inst. of Tech.) ○KONO, Ryotaro; OOISHI, Tomoji
- 2PA-070** A study on a correlation between the structural change and the high performance of asphalt irradiated with electron beams (KEK) ○HIDEAKI, Takagi; HARADA, Kentaro; HIRATO, Toshiaki; KYOKU, Kei; YOSHITAKE, Mitio; MORIMOTO, Masato; FUMOTO, Eri; SHARMA, Atul; KAWASHIMA, Yoko; NITTA, Hiroyuki; SHIMIZU, Nobutaka; KOBAYASHI, Yukinori; KANAYA, Toshiji; KAMIYA, Yukihide

Functions of Materials

- 2PA-073** Circularly Polarized Luminescence (CPL) property of chiral perylene luminophore having extended π -electron system. (Fac. Sci. Eng., Kindai Univ.; ORIST; Coll. Sci., Ibaraki Univ.) ○MISHIMA, Kohei; HARA, Nobuyuki; SHIZUMA, Motohiro; NISHIKAWA, Hiroyuki; IMAI, Yoshitane
- 2PA-074** Circularly Polarized Luminescence (CPL) and Magnetic Circularly Polarized Luminescence (MCPL) of π -conjugated luminophore. (Fac. Sci. Eng., Kindai Univ.; Sch. Sci., Kitasato Univ.) ○TODA, Hayato; TAKAMURA, Kenya; HARA, Nobuyuki; HASAGAWA, Masashi; IMAI, Yoshitane
- 2PA-075** Circularly Polarized luminescence (CPL) and Magnetic Circularly Polarized luminescence of Multicolor perylene luminophores. (Fac. Sci. Eng., Kindai Univ.; Grad. Sch. Eng., Osaka Pref. Univ.; ORIST) ○KIMOTO, Takahiro; NAKAJIMA, Gaku; YOSHIMURA, Yasuki; SHIZUMA, Motohiro; YAGI, Shigeyuki; IMAI, Yoshitane
- 2PA-076** Solution and solid-states circularly polarized luminescence (CPL) and magnetic circularly polarized luminescence (MCPL) of luminophore. (Fac. Sci. Eng., Kindai Univ.; JASCO Co.; Grad. Sch. Eng., Osaka Pref. Univ.) ○MATSUDAIRA, Kana; TAGUCHI, Shuhei; TAKAKUWA, Sakae; MIMURA, Yuki; KONDO, Yoshiro; SUZUKI, Satoko; YAGI, Shigeyuki; IMAI, Yoshitane
- 2PA-077** Excimer circularly polarized luminescence (CPL) and magnetic circularly polarized luminescence (MCPL) of chiral binaphthyl-pyrene luminophore (Fac. Sci. Eng., Kindai Univ.; ORIST; Sch. Eng., Tokyo Denki Univ.; Fac. Eng., Oita Univ.) ○OKADA, Hana; KAJI, Daiki; SHIZUMA, Motohiro; MIYASAKA, Makoto; HARADA, Takunori; IMAI, Yoshitane
- 2PA-078[#]** Photoinduced cytotoxicity of photochromic diarylethene derivatives: The relation of the Fluorine atom in the molecule and the cytotoxicity (Fac. Sci. Tech., Ryukoku Univ.; BRD, AIST) ○WATANABE, Shota; NAKAGAWA, Yuma; SUMARU, Kimio; MORISHITA, Kana; KANAMORI, Toshiyuki; YOKOJIMA, Satoshi; NAKAMURA, Shinichiro; UCHIDA, Kingo
- 2PA-079[#]** Synthesis and optical properties of diarylethene-type photochromic compounds with cyclic imide structures (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○SAKKA, Kohei; YAMABUKI, Kazuhiro; ONIMURA, Kenjiro
- 2PA-080** Photochemical reactions of bisstyrylpyrene bridged with a binaphthyl unit (Sch. Eng., Yokohama Natl. Univ.; Sch. Eng., Yokohama Natl. Univ.) ○ITO, Tsuyoshi; NAKAGAWA, Tetsuya; UBUKATA, Takashi
- 2PA-081** π -conjugation change by photoisomerization of asymmetric tetraarylene (Grad. Sch. Eng., Kyoto Univ.) ○SUGIMOTO, Masataka; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2PA-082** Elastomerization of the Supramolecular Assembly Composed of the Amphiphilic Diarylethene (Grad. Sch. Eng., Kyoto Univ.) ○NAMIKAWA, Atsushi; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2PA-083** Preparation of diarylethene dimer showing dual switching induced by photoirradiation and oxidation (Grad. Sch. Eng., Kyoto Univ.) ○OOTSUKI, Naoto; HIGASHIGUCHI, Kenji; MATSUDA, Kenji
- 2PA-084** Fluorescence properties of 5-heteroaryl-4-vinyl-2-phenylthiazole derivative (NIT, Niihama College; Grad. Sch. Sci., Eng., Ehime Univ.; Hyogo Univ. of Teacher Educ.; Grad. Sch. Mat. Sci., NAIST) ○TAKAMI, Shizuka; HIRAOKA, Tamaki; WATANABE, Kanon; ISHIBASHI, Yukihide; ASAH, Tsuyoshi; YAMAGUCHI, Tadatsugu; KAWAI, Tsuyoshi
- 2PA-085[#]** Synthesis of terarylenes heptamer based on β -cyclodextrin and their photochromic properties (Grad. Sch. Mat. Sci., NAIST) ○GOTO, Yora; NISHI, Daichi; ASATO, Ryosuke; YAMADA, Mihoko; NAKASHIMA, Takuya; KAWAI, Tsuyoshi
- 2PA-086** Dependence of thermal cycloreversion reactivity of diarylethenes on alkoxy chain length of secondary alkoxy group at the reactive position. (Grad. Sch. Eng., Osaka City Univ.) ○YAMAUCHI, Yusuke; KITAGAWA,

- Daichi; KOBATAKE, Seiya
- 2PA-087** The Origin of Urbach Tail in a Turn-On Mode Fluorescent Diarylethene Derivative: Temperature Dependence of Absorption Spectra (Sch. Eng. Sci., Osaka Univ.) ○YURI, Okui; SHINMEN, Haruka; NAGASAKA, Tatsuhiro; SOTOME, Hikaru; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi
- 2PA-088** Emission characterization of fluorescent diarylethene nanocrystals (Sch. Eng. Sci., Osaka Univ.) ○TAKEI, Yumi; FUNAOKA, Misato; ITO, Syoji; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi
- 2PA-089** Photoinduced high speed peeling of single crystals composed of a diarylethene (Grad. Sch. Eng., Osaka City Univ.) ○TAMAOKI, Masato; KITAGAWA, Daichi; KOBATAKE, Seiya
- 2PA-090** Construction of a multi-color photochromic system that is stable at room temperature and under room light (Grad. Sch. Eng., Osaka City Univ.) ○NISHI, Wakana; KITAGAWA, Daichi; KOBATAKE, Seiya
- 2PA-091** Single-wavelength fluorescence switching properties of fluorescent diarylethene derivatives: light intensity and matrix dependence (Sch. Eng. Sci., Osaka Univ.) ITO, Shoji; MORIMOTO, Masakazu; IRIE, Masahiro; MIYASAKA, Hiroshi; FUNAOKA, Misato; ○AIKAWA, Michiru
- 2PA-092** Excited State Dynamics in Open Form of a Diarylethene Derivative: Approach to High Efficient Reaction (Grad. Sch. Eng. Sci., Osaka Univ.) ○NAGASAKA, Tatsuhiro; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 2PA-093** Structure-Property Relationship in Luminescence of Non- π -Conjugated Gold(I) Complexes (Coll. Life Sci., Ritsumeikan Univ.) ○FUROIDA, Andriani; ○ZAKI, Kazuhisa; HISANO, Kyohei; TSUTSUMI, Osamu
- 2PA-094** Phosphorescent Luminogens Based on White-Color-Luminescent Liquid Crystals (Coll. Life Sci., Ritsumeikan Univ.) ○MUTAGUCHI, Mayu; PANTHAI, Supattra; YOUNIS, Osama; HISANO, Kyohei; TSUTSUMI, Osamu
- 2PA-095** Construction of a Perovskite Quantum Dot Supramolecular Structure via Self-Assembly of Organic Molecules (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KUBO, Naoki; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-096** kinetic analysis of halide exchange reaction of a CsPbBr₃ perovskite nanocrystal (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAJIKI, Yuki; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-097** Energy Transfer in Quantum Dot-Dye Molecules Hybrid System - Elucidation of the Mechanism at the Single QD Level - (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MATSUNAGA, Kaho; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-098** Control over self-assembly of perylene bisimide on the surface of quantum dots (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MONJI, Yusuke; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-099** Durability evaluation of fluorescent organic molecules present in sub-nano sized pores. (Tokyo Metropolitan Ind. Tech. Res. Inst.; Fac. Sci. Tech., Keio Univ.) ○HAYASHI, Kosei; FUJIMAKI, Yasuto; IMAI, Hiroaki
- 2PA-100** Evaluation of upconversion emission materials using an advanced absolute photoluminescence quantum yield measurement system (Hamamatsu Photonics K.K.; Grad. Sch. Eng., Kyushu Univ.; PRESTO, JST; CMS, Kyushu Univ.) ○SUZUKI, Kengo; YANAI, Nobuhiro; OGAWA, Taku; SASAKI, Yoichi; HARADA, Naoyuki; KIMIZUKA, Nobuo
- 2PA-101** Afterglow properties of strontium aluminates synthesized with reverse micelle methods (Fac. Sci. & Tech., Meijo Univ.; IMS) ○SERA, Motoshi; AOYAMA, Yusuke; YABARA, Yusuke; IZAWA, Seiichi; HIRAMOTO, Masahiro; NISHIYAMA, Katsura
- 2PA-102** Photocontrol of crystallization-induced emission in naphthalene-functionalized azobenzene derivatives (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○OKAJI, Miho; YAMAUCHI, Mitsuaki; MASUO, Sadahiro
- 2PA-103** Control of the emission behavior of a single CdSe/ZnS quantum dot by a plasmonic nanostructure (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TAKASE, Hiroto; CHIDA, Hinako; YAMAUCHI, Mitsuaki; TAWA, Keiko; MASUO, Sadahiro
- 2PA-104** Emission Control of Coordination Polymer Thin Films Composed of Fluorescence Exo-Tridentate Ligands and Zinc Diketonates (ORIST; Osaka Kyoiku Univ.) ○KASHIWAGI, Yukiyasu; KUBONO, Koji; TAMAI, Toshiyuki
- 2PA-105** Synthesis and luminescence properties of iridium complexes with ligands of 1-Phenylisoquinoline having triplet acceptor moieties. (Fac. Sci., Josai Univ.; AIST) ○MIYASHITA, Yasuha; UCHIDA, Hiromi; UWADA, Takayuki; HASHIMOTO, Masashi; KONNO, Hideo; KOIKE, Kazuhide
- 2PA-106** Comparison of reactivity between monosubstituted photochromic molecule and An nanoparticle immobilized on titania base layer (Dept. of Tech. Syst., Osaka. Pref. Univ. Coll. Tech.) ○TOKU, Ryota; NAKANO, Genta; MIZUTSU, Ryo; ASATO, Ryosuke; AKIYAMA, Tsuyoshi; KAWAI, Tsuyoshi; HIGASHIDA, Suguru
- 2PA-107** Real-Time Sensing of Oxygen Molecules by Ultrathin Hybrid Films of Luminescent Iridium(III) Complexes and Clay Nanosheets (Grad. Sch. Sci., Eng., Ehime Univ.; Fac. Medicine, Toho Univ.) ○TAKIMOTO, Kazuyoshi; YAMAGISHI, Akihiko; SATO, Hisako
- 2PA-108** DNA adsorbed on film by using photoionization of malachite green derivative (Dept. of Chem. Eng., NIT, Nara College) TATSUMI, Akane; NISHIMOTO, Noriko; ○UDA, Ryoko
- 2PA-109** Development of malachite green derivative for photobase generator (Dept. of Chem. Eng., NIT, Nara College) ○TAKENAKA, Daiki; UDA, Ryoko
- 2PA-110** Synthesis of chlorin-carotenoid conjugate and its application to photocatalyst for hydrogen evolution (Nagahama Institute of Bio-Science and Technology; OCARINA; Kobe Pharm. Univ.; Jilin Univ.) ○SASAKI, Shin-ichi; LIU, Yanxiang; YAMANO, Yumiko; FUJII, Ritsuko; WANG, Xiaofeng
- 2PA-111** Formation of Vertical Diode by Electrodeposition of TiO₂ and MoO₃ (ORIST; Grad. Sch. Eng., Osaka Pref. Univ.) ○WATANABE, Mitsuru; TAMAI, Toshiyuki; SUENAGA, Yu; NAITO, Hiroyoshi
- 2PA-112** Preparation of composite magnetic material based on iron oxide magnet (Sch. Sci. Eng., Univ. of Tsukuba) ○TANAKA, Mayuko; OKOSHI, Shinichi; TOKORO, Hiroko
- 2PA-113** Sintering temperature effect on synthesis of rod-type ϵ -Fe₂O₃ by sol-gel method (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba; Fac. Sci., The Univ. of Tokyo) ○WATANABE, Koki; FUKUI, Junpei; OHKOSHI, Shin-ichi; TOKORO, Hiroko
- 2PA-114** Limonite composite fibers for arsenic adsorption (Mat. Sci., Nagaoka Univ. of Tech.) ○LI, Zhe; KOBAYASHI, Takaomi
- 2PA-115** Fibrous bioreactor for ammonia decomposition and water purification in closed-circulation fish breeding (Fac. Eng., Nagaoka Univ. of Tech.) ○XU, Rui; KOBAYASHI, Takaomi
- 2PA-116** Enhancement of Cr(VI) ion adsorption on 2-(dimethylamino)ethyl methacrylate-grafted polyethylene substrates by quaternization (Coll. Industrial Tech., Nihon Univ.) ○KITAO, Yoshinori; KIMURA, Yuji; ASAMOTO, Hiromichi; YAMADA, Kazunori; MINAMISAWA, Hiroaki
- 2PA-117** Withdrawn
- 2PA-118** Fabrication of nanostructure-controlled titanates by the dealloying-oxidation method and evaluation of adsorption performance (Fac. Textile Sci. Technol., Shinshu Univ.) ○HATAI, Hiroki; MORIOKA, Yuta; ASAO, Naoki
- 2PA-119** Water and Corrosion-resistant Coating Using Solution Prepared from Polyvinylbutyral and Methyltriethoxysilane (Nagoya Municipal Industrial Research Institute) ○ONO, Satomi; YASUI, Nozomu; KISHIKAWA, Nobuyuki; KAWASE, Satoru; ODA, Mitsuo
- 2PA-120** Electrosterilization by nanomicrocrystalline diamond/amorphous carbon film with Magnesium sulfate as electrolyte (NIT, Ariake College; NIT, Okinawa College) ○FUJIMOTO, Daisuke; IKEMATSU, Shinya; DEGUCHI, Tomoaki; HARA, Takeshi

Environmental and Green Chemistry

- 2PA-123** An analysis case of high concentration PM_{2.5} in Hokkaido (Hokkaido Research Organization) ○AKUTAGAWA, Tomoko; OTSUKA, Hideyuki; AKIYAMA, Masayuki
- 2PA-124** Influence of alkaline additives on the classification efficiency of soil using a wet preparation of ferromagnetic iron (Fac. Life Env. Sci., Pref. Univ. of Hiroshima) ○MURATA, Hirokazu; ARAKAWA, Waka; KUBO, Hitomi; ISHIWATA, Hiroyuki; YAMAZAKI, Masayoshi; MITOMA, Yoshiharu
- 2PA-125** Concentrations of Volatile Organic Compounds Contained at clear weather and cloudy weather in the Atmosphere in Tokyo (Tokyo Metropolitan Government; Environment Bureau) ○ISHII, Marina; WATANABE, Kenichi; YOSHIZUMI, Tokiko
- 2PA-126** Varous Kinds of visual Type Samplers of NO₂ and a visual Type of Fricke Docimeter for surveying Environmental Pollution useful for SDGs (CSJ) ○AMAYA, Kazuo
- 2PA-127** The evaluation of the influence of Criegee Intermediate on particulate matter 2.5 composition in the atmosphere (The Univ. of Tokyo) ○NAKAMURA, Yuya; TONOKURA, Kenichi
- 2PA-128** Determination of Carbonyl Compounds in Air Using Hydroquinone Coated Frits for Ozone Removal (Grad. Sch. Sci. Eng., Chiba Univ.) ○SAKAMOTO, Hironari; UCHIYAMA, Shigehisa
- 2PA-129** NMR and HPLC analysis of the interactions between dipicolinic acid and three ions, Sr, Y, and Zr (NIT, Ibaraki College) ○TAKAKU, Yuki; CHIBA, Kaori
- 2PA-130** Safety of rubber gloves in organic chemistry experiments (Sch. Eng., Tokyo Univ. of Tech.) ○TSUMAYA, Masahide; KATAGIRI, Toshimasa
- 2PA-131** Study on seedling solidification soil for cell tray with a cellulose nanofiber as solidifying agent (Kanazawa Inst. of Tech.) KOBAYASHI, Ryo; YOSHIMURA, Osamu; SEKIZAWA, Hiroaki; ○TSUKEGI, Takayuki
- 2PA-132** Inhibition Effects of *trans*-Cyclooctene Derivatives in Bromination (Grad. Sch. Eng., Kyoto Univ.) ○HIRAMATSU, Masatsugu; MURATA, Ryuichi; NAGANO, Tagui; ASANO, Keisuke; MATSUBARA, Seijiro
- 2PA-133** Instability of 5-(hydroxymethyl)furfural from biomass : A Systematic Computational Reaction Analysis (Grad. Sch. Chem. Sci. and Eng., Hokkaido Univ.; Inst. for Cat., Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.; Fac. Sci., Hokkaido Univ.; ESICB, Kyoto Univ.) ○TASHIRO, Keisuke; KOBAYASHI, Masato; NAKAJIMA, Kiyotaka; TAKETSUGU, Tsutsuya
- 2PA-134** Formic acid dehydrogenation by immobilized iridium catalyst (RIEF, AIST) ○ONISHI, Naoya; HIMEDA, Yuichiro
- 2PA-135** Electroless Copper Plating Using Glucose as a Reducing Agent (Kaisei Senior High School) ○TAKEUCHI, Yuta; SHIMIZU, Yukoh; TAKEUCHI, Hideomi; MIYAMOTO, Kazuhiro

- 2PA-136[#]** N-type organic thermoelectric properties of nitrogen-containing basic compound-doped carbon nanotube sealed with polymer (Fac. Eng., Tokyo Univ. of Sci., Yamaguchi) ○HATA, Shinichi; YAMAGUCHI, Yuya; JUHASZ, Gergely; SHIRAIISHI, Yukihide; TOSHIMA, Naoki
- 2PA-137** Electrochemical study on visible light responsive titanium dioxide doped with platinum ion (Fac. Sci., Yamaguchi Univ.) ○YAMAMOTO, Nanami; YAMAZAKI, Suzuko
- 2PA-138** Photocatalytic activity of TiO₂ nanorods synthesized by using lactic acid as a structure directing agent (Fac. Sci., Yamaguchi Univ.) ○KUTOH, Masanari; YAMAZAKI, Suzuko
- 2PA-139[#]** Decomposition of organic materials in water using highly dispersed hematite photocatalyst under visible light (Fac. Eng., Shizuoka Univ.) ○OHMURA, Masaki; SAWA, Rei; KOHNO, Yoshiumi; WATANABE, Ryo; FUKUHARA, Choji
- 2PA-140** Preparation of titanium oxide / tungsten oxide composite photocatalysts as environmental purification material (Nagoya Municipal Industrial Research Institute) ○KISHIKAWA, Nobuyuki; KAWASE, Satoru; ONO, Satomi
- 2PA-141** Thermal decomposition of glycerol and propylene glycol in the e-cigarette (National Institute of Public Health) ○UCHIYAMA, Shigehisa; NOGUUCHI, Mayumi; ISHITSUKA, Miho; SATO, Ayana; INABA, Yohei; KUNUGITA, Naoki
- Monday, March 23, PM**
(12 : 30 ~ 14 : 00)
- Organic Chemistry -Reaction and Synthesis-
Heterocyclic Compounds**
- 2PB-001** Convenient Synthetic Method for Novel Fluorine-Containing Thiazinobenzacridines (Grad. Sch. Eng., Kobe Univ.) ○KONISHI, Mitsuru; OKADA, Etsuji
- 2PB-002** Synthesis of Fluorine-Containing Pyrazoloquinolines by Regioselective Nucleophilic Substitution of 2-Methoxy-4-phenethoxy-3-trifluoroacetylquinoline with Hydrazines (Grad. Sch. Eng., Kobe Univ.) KONISHI, Mitsuru; NAKAO, Rika; WAKINO, Hanaka; ○OKADA, Etsuji
- 2PB-003** Synthesis of Fluorine-Containing Oxazinobenzindazoles by Aromatic Nucleophilic Substitution of 7-Dimethylamino-8,10-bis(trifluoroacetyl)naphtho[1,2-d][1,3]oxazines with Hydrazines (Grad. Sch. Eng., Kobe Univ.) NAKAO, Rika; KONISHI, Mitsuru; ○OKADA, Etsuji
- 2PB-004** Facile Synthetic Method for Novel Fluorine-Containing Thiazinobenzindazoles (Grad. Sch. Eng., Kobe Univ.) NAKAO, Rika; ○KONISHI, Mitsuru; OTA, Norio; OKADA, Etsuji
- 2PB-005** Preparation and fundamental properties of mandelate type eutectic solvents (Fac. Eng., Kindai Univ.) ○KITAOKA, Satoshi; OHZEKI, Haruki; NOBUOKA, Kaoru
- 2PB-006** Pyrrolidine-imidazolium conjugated Chiral Ionic Liquid Catalysts for Asymmetric Reactions (Grad. Sch. Eng., Oita Univ.) ○SHIMODA, Yuhi; KITAOKA, Satoshi; ISHIKAWA, Yuichi; NOBUOKA, Kaoru
- 2PB-007** Effect of Substrate on Asymmetric Michael Addition with thiazolium Conjugated Proline-base Chiral Ionic Liquid Catalyst (Grad. Sch. Eng., Oita Univ.) ○KUMANO, Sho; KITAOKA, Satoshi; ISHIKAWA, Yuichi; NOBUOKA, Kaoru
- 2PB-008[#]** Synthesis of cyclic selenide using D-Mannitol and asymmetric epoxidation reaction (Grad. Sch. Industrial Tech., Nihon Univ.) ○INAMI, Reo; ICHIKAWA, Hayato
- 2PB-009** Chiral Bifunctional Sulfide Catalysts for Asymmetric Synthesis of 3,3-Disubstituted Phthalides via Bromolactonization (Grad. Sch. Fish. & Env. Sci., Nagasaki Univ.) ○OKADA, Megumi; KANEKO, Kazuma; YAMANAKA, Masahiro; SHIRAKAWA, Seiji
- 2PB-010[#]** Synthesis of optically active lactones and olfactory evaluation (Fac. Eng., Toyama Pref. Univ.) ○KAWASAKI, Masashi; KATO, Daiki; TANAKA, Yasuo; TOYOOKA, Naoki
- 2PB-011** Development of Catalytic Enantioselective Azaspirolactonization via Ring Opening-reclosure of Hydroxylactams (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; ○MIYOSHI, Ayako; TANEMURA, Mana; YODA, Hidemi
- 2PB-012** Development of new synthetic methods for *N,O*- and *N,N*-spirocyclic lactams based on Electrophilic Amide Allylation (Grad. Sch. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; MAKINO, Koki; ○IJIJIMA, Ayumi; YODA, Hidemi
- 2PB-013** β-Lactam Synthesis Through Conjugate Addition Reactions of Ketene Silyl Acetals to Alkynyl Imines: Synthetic Study of Ezetimibe (Grad. Sch. Eng., Mie Univ.) YONEKAWA, Takumi; ○WATANABE, Yuya; NAKAZATO, Hiroya; HACHIYA, Iwao
- 2PB-014** Synthesis of β-Lactams Through Conjugate Addition Reactions to Alkenyl Alkynyl Imines: Synthetic Study of SCH 48461 (Grad. Sch. Eng., Mie Univ.) YONEKAWA, Takumi; ○MORISHITA, Hiroki; NAKAZATO, Hiroya; HACHIYA, Iwao
- 2PB-015** Synthesis of Tetramic Acid Derivatives via Tandem *N*-Alkylation/reduction/cyclization Reaction of γ-Hydrazono β-Keto Ester (Fac. Eng., Mie Univ.) MAEDA, Miki; ○IMOTO, Kiho; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 2PB-016[#]** Ring Expansion Reaction of Sulfonium Ylides derived from 2-Substituted-1,3-Dithiolanes (Kobe City Coll. Technol.) ○KOIZUMI, Takuya; FUJII, Ikuya; ICHINOSE, Yuma; NAKATA, Yusuke
- 2PB-017** Carboxylative Cyclization of a Propargylic Amine with CO₂ Catalyzed by Dendrimer-Encapsulated Gold Nanoparticles (IRC3, AIST) ○MATSUO, Hideaki; FUJII, Akira; CHOI, Jun-chul; FUJITA, Ken-ichi
- 2PB-018** Synthetic Study of (-)-A58365B Having a Blood Pressure Lowering Effect (Fac. Eng., Mie Univ.) UEMURA, Kentō; ○IMAI, Katsutoshi; HACHIYA, Iwao
- 2PB-019[#]** Efficient Transformation of Arenes into 3-Arylisoxazoles Using Vilsmeier-Haack Reaction (Grad. Sch. Adv. Integration Sci., Chiba Univ.) ○NAKANO, Ryuta; TOGO, Hideo
- 2PB-020[#]** Synthesis of 2-trifluoromethyl-substituted five-membered N-heterocyclic compounds via decarboxylative [3+2] cycloaddition (IIS, The Univ. of Tokyo) ○LIU, Qian; AKAGAWA, Kengo; KUDO, Kazuaki
- 2PB-021[#]** New Synthetic Approach for the Synthesis of 2,3,5-Trisubstituted Furans by Brønsted Acid-Catalyzed Cyclization of α-Alkynylketones (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○MURAKAMI, Miki; ISHIBASHI, Mayo; SAKAMOTO, Juri; HORINO, Yoshikazu
- 2PB-022** Convenient Synthesis of Nitrogen Containing Fused Tricyclic γ-Carboline Derivatives (Life & Environmental Sci Osaka Pref. Univ.) ○NODA, Shizuki; SONODA, Motohiro; AKITAKE, Masahiro; TANIMORI, Shinji
- 2PB-023** Visible-light-induced carbon-carbon bond formation of sulfur-functionalized oxindole derivatives (Fac. Eng., Shizuoka Univ.) SENGOKU, Tetsuya; ○NATSUME, Mana; MIMURA, Kazuyuki; OGAWA, Daichi; YODA, Hidemi
- 2PB-024** Synthetic study of dye-sensitized solar cell dyes having dyes based on aryl amine and tetra-thiophen parts for elucidation of its mechanism (Grad. Sch. Sci. Technol., Shinshu Univ.) HARADA, Takuya; ○OTA, Ryotaro; TAKAGI, Ryohei; MOTOYOSHI, Daiki; NISHII, Yoshinori; MORI, Syogo; WAGNER, Pawel; MOZER, Attila
- 2PB-025[#]** The formation of 4,7-dihalobenzo[b]thiophenes from 2-alkylsulfanyl-3,6-dihalobenzaldehydes with Ohira-Bestmann reagent (Grad. Sch. Sci., Tohoku Univ.) ○MIKAMI, Shinichi; KISHI, Hiroki; TANAKA, Hiroki; YOSHIDA, Shuhei; TOYOTA, Kozo
- 2PB-026** Development of Synthetic Methods for Highly Sulfur-Containing π-Conjugated Compounds and Their Applications (Grad. Sch. Nat. Sci. & Tech., Gifu Univ.) ○KATAYAMA, Shoma; WADA, Ryuta; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 2PB-027[#]** Synthesis and Properties of Arylamines having a thiazolyl group (Fac. Eng., Gifu Univ.) ○TANAKA, Nozomi; TAKEKOSHI, Kazuma; MURAI, Toshiaki
- 2PB-028[#]** Efficient Transformation of Arenes into 1,5-Disubstituted Tetrazoles (Grad. Sch. Sci. Eng., Chiba Univ.) ○SHIBASAKI, Kaho; TOGO, Hideo
- 2PB-029** Synthesis of *N*-alkylated chlorophyll-*a* derivatives and their optical properties (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KAWAMOTO, Yuki; NAGANO, Yasunobu; KITAGAWA, Yuichi; TAMIAMI, Hitoshi
- 2PB-030[#]** Stereoselective Baeyer-Villiger oxidation of cyclobutanones mediated by flavinium-cinchona alkaloid dimer (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○FUJIMOTO, Junya; YAMAMOTO, Kana
- 2PB-031[#]** Highly Efficient Synthesis of 1,4-Dihydropyridine Derivatives Using DBU (Grad. Sch. Sci. Eng., Ibaraki Univ.) ○NAKAJIMA, Kazuya; KAJITANI, Masashi; ORIYAMA, Takeshi
- 2PB-032** Synthetic Studies on the cis-Decahydroquinoline Alkaloids via Cycloisomerization of Enynes (Dept. Pharm., Musashino Univ.) ○HASEGAWA, Ryo; SHITO, Reiko; KUMADA, Akari; YABE, Kiko; SHIRAKI, Hayato; HAYAKAWA, Hiroyuki; KATAKAWA, Kazuaki; SUEKI, Shunsuke; ANADA, Masahiro
- 2PB-033[#]** Preparation of 2-Arylquinolines from 2-Arylethyl Bromides and Aromatic Nitriles with Mg and *N*-Iodosuccinimide (Grad. Sch. Sci. Eng., Chiba Univ.) ○NARUTO, Hiroki; TOGO, Hideo
- 2PB-034[#]** Novel Preparation of Quinazolines from *o*-cianoanilines via Imino radicals (Grad. Sch. Sci. Eng., Chiba Univ.) ○NARUTO, Hiroki; TOGO, Hideo
- 2PB-035** Synthesis of tri-3-pyridylmethane and the reactivity of its anion (Inst. Nat. Sci., Senshu Univ.; Grad. Sch. Sci., Osaka Univ.; FUT, Organization for Fundamental Education) ○MATSUMOTO, Kouzou; KAWASHITA, Kazuaki; ONISHI, Koji; TAKAJO, Daisuke; KURATA, Hiroyuki; KUBO, Takashi
- 2PB-036** Flow Microreactor Synthesis of 5-Boryl-2,3'-bipyridine (Fac. Health Sci., Suzuka Univ. of Med. Sci.; Grad. Sch. Eng., Kyoto Univ.) ○WAKABAYASHI, Shigeharu; NAKADE, Aika; TAKUMI, Masahiro; NAGAKI, Aiichiro
- 2PB-037[#]** Synthesis of oxahelicene derivatives by furan ring formation of 2,2'-bisphenol derivatives (Grad. Sch. Eng., Utsunomiya Univ.) ○HOSSAIN, Md. Sharif; AKTER, Mahmuda; KIMURA, Nanami; KARIKOMI, Michinori
- 2PB-038** Novel Preparation of Phenanthridines Using DIH (Grad. Sch. Sci., Chiba Univ.) ○YANAI, Kei; TOGO, Hideo
- 2PB-039** Synthesis of botryllazine B analogs and their evaluation as selective aldose reductase inhibitors (Fac. Sci., Toho Univ.) ○NOUMI, Maiko; UNO, Sota; HIGASHI, Shoko; GOTO, Masaru; SAITO, Ryota

Organic Chemistry -Reaction and Synthesis-
Heteroatom Compounds

- 2PB-041[#]** Synthesis of P-stereogenic phosphinates from P-stereogenic phosphinates having a binaphthyl group (Fac. Eng., Gifu Univ.) OKAWAJIRI, Akari; KUWABARA, Kazuma; MURAI, Toshiaki
- 2PB-042** Synthesis of primary phosphines with chiral tertiary carbon atom and their properties (Fac. Eng., Gifu Univ.) OENDO, Chikako; MAEKAWA, Yuuki; WADA, Ryouta; MURAI, Toshiaki
- 2PB-043[#]** Synthesis and reaction mechanism of tetraarylphosphonium salts via cross-coupling reaction (Dept. Chem., Konan Univ.) OISONO, Koshiro; OHTSUKI, Kenji; KATAGIRI, Kosuke
- 2PB-044** Synthesis and structure of diaryltellurium dicarboxylates (Sch. Sci., Tokai Univ.) OSHIBUYA, Yuga; KOGUCHI, Shinichi; OBA, Makoto
- 2PB-045** 2-Iodosobenzoic Acids with New Alkoxy Ligand: Synthesis and Reactivity (Coll. Pharm. Sci., Ritsumeikan Univ.) OYATABE, Hotaka; KAGEYAMA, Nami; CHINA, Hideyasu; DOHI, Toshifumi
- 2PB-046[#]** ZnCl₂-NbCl₅-MTBD-Catalyzed Synthesis of Cyclic Carbonates from Carbon Dioxide and Epoxides under Ambient Conditions (ORIST) OMIHARA, Masatoshi; NAKAI, Takeo; ITO, Takatoshi
- 2PB-047** Synthesis of benzene derivatives having sulfonium groups (Grad. Sch. Sci., TMU) OTAKAHASHI, Ren; HIRABAYASHI, Kazunori; SHIMIZU, Toshio
- 2PB-048[#]** Epoxidation of olefin using tellurinic acid derivatives (Sch. Sci., Tokai Univ.) OMIHOYA, Aya; KOGUCHI, Shinichi; OBA, Makoto
- 2PB-049** SNAr reaction for synthesis of perfluoroarylated phosphalkenes (Sch. Mater. & Chem. Tech., Tokyo Tech.) OHTSUKI, Kazuaki; ITO, Shigekazu
- 2PB-050[#]** Synthesis 2,2'-diselenobisbenzoic acid of via nickel catalyzed C-H activation (Coll. Industrial Tech., Nihon Univ.) OMIITSUHASHI, Minako; ICHIKAWA, Hayato
- 2PB-051** Synthesis and fluorescence property of 9-aminoanthracene bearing an aryl group at the 10-position (Sch. Sci., Kitasato Univ.) OUCHIYAMA, Yosuke; YAMAURA, Takahisa; ITAKURA, Makoto; MATSUZAWA, Hideyo; KAGIYA, Go; KAWAKAMI, Fumitaka; MARUYAMA, Hiroko
- 2PB-052[#]** Synthesis and Reactivity of Group 13 Element Compounds with Bulky Rind Groups (Fac. Sci. Eng., Kindai Univ.) OSUZUKI, Takeo; SADAMORI, Kazuya; HASHIZUME, Daisuke; MATSUO, Tsukasa
- 2PB-053[#]** Synthesis of a Sterically Demanding Bidentate Ligand and Its Application for Attempted Synthesis of Low-coordinated Organosilicon Species (Grad. Sch. Nat. Sci., Nagoya City Univ.) OHIRASAKA, Kohichi; SASAMORI, Takahiro
- 2PB-054** Synthesis of bulky alkylphosphine derivatives and their applications (Grad. Sch. Sci., Eng., Ehime Univ.) OKURATA, Masanori; SOGABE, Shota; NGO, Khanh Linh; OHTA, Hidetoshi; HAYASHI, Minoru
- 2PB-055[#]** Attempted Synthesis of a Bis(ferrocenyl)phosphonium Derivative (Grad. Sch. Nat. Sci., Nagoya City Univ.) OZHANG, Tianqing; SASAMORI, Takahiro
- 2PB-056[#]** Stereoselective oxidation of P-chirogenic phosphorous compounds promoted by cofactor Flavin derivatives (Sch. Advanced Sci. Eng., Waseda Univ.) OJIN, Ziyang; YAMAMOTO, Kana
- 2PB-057** Synthesis of Germanium and Tin Compounds Bearing Extended Triptycyl Frames (Coll. Sci., Rikkyo Univ.) OHASEGAWA, Akio; NISHINO, Ryohei; MINOURA, Mao
- 2PB-058[#]** Synthesis of fused thiophene compounds using BCOD precursors (Grad. Sch. Sci., Eng., Ehime Univ.) OINADA, Shoki; TANI, Hiroyuki; MORI, Shigeki; UNO, Hidemitsu
- 2PB-059** Synthesis and gas adsorptions of silyl-substituted terephthalate-based metal-organic frameworks (Coll. Sci., Rikkyo Univ.) OKOBAYASHI, Sho; SUGAMATA, Koh; IIHAMA, Teruyuki; MINOURA, Mao
- 2PB-060[#]** Asymmetric Michael Addition Reaction of α -Aminomaleimides to β -Nitroolefins Using an Organocatalyst (Coll. Sci., Ibaraki Univ.) OSAKAI, Naoki; KAJITANI, Masashi; ORIYAMA, Takeshi
- 2PB-061[#]** A Novel and Efficient Mannich-Type Reaction of α -Aminomaleimides (Grad. Sch. Sci. Eng., Ibaraki Univ.) OHAN, Wei; LIU, Fan; ORIYAMA, Takeshi
- 2PB-062** Synthesis and Properties of the Phosphonic Acid Ester Bearing Phthalic Acid Units (Coll. Sci., Rikkyo Univ.) ONISHINO, Ryohei; YANAGISAWA, Daichi; SUGAMATA, Koh; INOHARA, Hideki; YAMAMOTO, Kazutoshi; MINOURA, Mao
- 2PB-063** Synthesis and Reaction of a Dibromosilane Bearing Extended Triptycyl Group (Coll. Sci., Rikkyo Univ.) OZHANG, Yanhua; NISHINO, Ryohei; MINOURA, Mao

Catalysts and Catalysis

- 2PB-065** Surface atomic ratio of bimetallic nanoparticle estimated by hard X-ray absorption spectroscopy (Toyota Central R&D Labs., Inc.) ONISHIMURA, Yusaku
- 2PB-066[#]** Deposition Mechanism of Silver Nanoparticles using Thermal Decomposition of Silver-Alkylamine Complexes Proceeding on TiO₂ Support in Water (Grad. Sch. Sci., Eng., Yamagata Univ.) OYAHAGI, Tomohiro; TOGASHI, Takahiro; KURIHARA, Masato
- 2PB-067[#]** Selective hydrogenation of quinolines and arenes by PdRuPVP catalyst (Grad. Sch. Eng., Nagoya Univ.) OCHAUDHARI, Chandan; SATO, Katsutoshi; NAGAOKA, Katsutoshi
- 2PB-068** Chemoselective One-Pot Synthesis of Imines by TiO₂-Supported Ni₃Sn₂ Alloy Catalyst (Dept. Appl. Chem., Nat. Def. Acad.) OYAMANAKA, Nobutaka; HARA, Takayoshi; ICHIKUNI, Nobuyuki; SHIMAZU, Shogo
- 2PB-069[#]** Searching for Layered Double Hydroxide as Catalysts capable of effectively degrading Organic Pollutants (Grad. Sch. Sci. and Eng., Kansai Univ.) OTODOROKI, Masanobu; IWAMURA, Kazushi; FUKU, Kojiro; NISHIUCHI, Toru; ICHIKAWA, Kohei; IKENAGA, Naoki
- 2PB-070[#]** The mechanism of oxidation from methanol to formaldehyde by Cu-ZSM-5 zeolite (Fac. Eng., Kyushu Univ.) OKITAGAWA, Ryotaro; YOSHIZAWA, Kazunari
- 2PB-071** Thermochemical properties of a double-4-ring type molecular Si/Al cluster (Fac. Sci. Eng., Chuo Univ.) OHASHIMOTO, Kenya; IMAIZUMI, Akira; NAKADA, Akinobu; CHANG, Ho-chol
- 2PB-072** Complete oxidation of ethyl acetate on the catalysts based on manganese oxide solid solutions (Kobe City Coll. Technol.) OYASUDA, Keisuke; IDE, Hajime; NOGATA, Akira; FUJITANI, Mao
- 2PB-073** Photoelectrochemical water-splitting over a surface modified p-type Cr₂O₃ photocathode (Toyota Central R&D Labs., Inc.) OSEKIZAWA, Keita; OH-ISHI, Keiichiro; MORIKAWA, Takeshi
- 2PB-074** Study on hydrogen peroxide generation using photoanodes made of visible-light-driven photocatalyst powder (Fac. Eng., Shinshu Univ.) OKATO, Seito; HISATOMI, Takashi; DOMEN, Kazunari
- 2PB-075** Synthesis and oxygen evolution activity of BaNbO₂N prepared from perovskite-type oxide precursors (Fac. Eng., Shinshu Univ.) OIWASA, Natsutogi; HISATOMI, Takashi; DOMEN, Kazunari
- 2PB-076[#]** Synthesis of 2D polymer using common solvent from porphyrin comprised covalent organic frameworks by mechanical stirring (ISIR, Osaka Univ.) OLI, Xinxin; OSAKADA, Yasuko
- 2PB-077** Development of visible light responsive photocatalyst using niobate nanowires and application to amine oxidation reactions (Grad. Sch. Sci. Technol., Shinshu Univ.) OSUZUKI, Tatsuki; NAKAO, Yusuke; MORIOKA, Yuta; ASAO, Naoki
- 2PB-078** Fabrication of titanate nanowires based on the corrosion method and transformation to visible-light responsive photocatalyst (Grad. Sch. Sci. Technol., Shinshu Univ.) OKARASAWA, Norikazu; TSUCHIYA, Yosuke; MORIOKA, Yuta; ASAO, Naoki
- 2PB-079** Photocatalytic nitrate-to-ammonia transformation on iron oxychloride photocatalysts (Grad. Sch. Eng. Sci., Osaka Univ.; RCSEC, Osaka Univ.) OMORIYAMA, Kenta; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PB-080** Generation of hypochlorous acid on silver chloride photocatalysts loaded with gold nanoparticles in chloride solutions (Grad. Sch. Eng. Sci., Osaka Univ.; RCSEC, Osaka Univ.) OSHIMA, Kaho; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PB-081** Effect of preparation conditions of resorcinol-formaldehyde resin photocatalysts on solar-driven hydrogen peroxide production (RCSEC, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) OSATO, Ryuta; HAGI, Takumi; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 2PB-082** Hybridization of particulate semiconductor photocatalysts by surface click reaction (Fac. Sci. Eng., Chuo Univ.) OKURIYAMA, Chiho; CHANG, Ho-chol; NAKADA, Akinobu
- 2PB-083** Preparation of Ag nanoparticles on Ga₂O₃ particles by ultrasonic reduction method and their photocatalytic activity for CO₂ reduction (Sumitomo Metal Mining Co., Ltd.; Grad. Sch. Eng., Kyoto Univ.) ONISHIMOTO, Masamu; ABE, Yoshiyuki; TERAMURA, Kentaro; TANAKA, Tsunehiro
- 2PB-084** Photoacoustic analysis on electrochemically accumulated electrons in titanium(IV) oxide (Grad. Sch. Life Sci. Sys. Eng., KIT) ONISHIMURA, Saki; MURAKAMI, Naoya
- 2PB-085** Photocatalytic activity of lanthanide fluoride nanocrystals with various charge states (Hyogo Univ. of Health Sci.) OSASAGAWA, Arisa; KIHARA, Aya; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-086** Photoluminescence properties of rare-earth doped lanthanide fluoride nanocrystals synthesized in various solvent (Hyogo Univ. of Health Sci.) OIZUMI, Haruka; IWAMOTO, Maho; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-087** Effects on stereochemistry upon asymmetric photohydrogenation of aromatic ketones on TiO₂ (1); preparation methods for anatase TiO₂ nanocrystals (Hyogo Univ. of Health Sci.) ONAGAI, Saki; NEGORO, Genki; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-088** Effects on stereochemistry upon asymmetric photohydrogenation of aromatic ketones on TiO₂(2): relation between substrates and chiral co-adsorbents (Hyogo Univ. of Health Sci.) OMIURA, Yurika; OGURA, Maharu; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-089** Adsorption and photocatalytic degradation of dyes by mesoporous silica-coated titanium dioxide (Hyogo Univ. of Health Sci.) ONABE, Takumi; MATSUSHITA, Fumiya; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-090** Photocatalytic degradation of acetaldehyde in gas phase by mesoporous silica-coated titanium dioxide (Hyogo Univ. of Health Sci.) OGOTO, Wataru; INABE, Takumi; KAWASHIMA, Akira; MIYABE,

Hideto; KOHTANI, Shigeru

- 2PB-091** Photocatalytic decomposition of cancer drug analogs using titanium dioxide with metal nanoparticles under visible light irradiation (Hyogo Univ. of Health Sci.) ○TAKIMOTO, Toru; USHIO, Natsuko; KAWASHIMA, Akira; MIYABE, Hideto; KOHTANI, Shigeru
- 2PB-092** Oxygen reduction reaction catalytic activity of perovskite-related structure nickel oxides. (Sumitomo Metal Mining Co., Ltd.; Kyoto Univ.) ○ABE, Yoshiyuki; SATOH, Iwao; SAITO, Takashi; KAN, Daisuke; SHIMAKAWA, Yuichi
- 2PB-093** Device dependency of microwave assisted organic reaction such as 1,4-additions and rearrangement reaction (Coll. Sci. Eng., Kanto Gakuin Univ.) ○MATSUDA, Kousuke; TAKAHASHI, Kie; IIDA, Hirokazu

Colloid and Interface Chemistry

Fine Particles and Colloidal Dispersions

- 2PB-095[#]** Synthesis of Fe-Ni Nanoparticles by Adding Fe Atoms to Size-controlled Ni Nanoparticles (Toyota Central R&D Labs., Inc.) ○AKEDO, Kunio; YATSUGI, Kenichi; ISHIZAKI, Toshitaka
- 2PB-096** Construction of fluorescent silica-coated gold nanorods by hierarchical synthesis (Dept. Env. Sci., Univ. Yamanashi) ○YAMAZAKI, Kei; SHINMORI, Hideyuki
- 2PB-097[#]** Synthesis and characterization of mesoporous silica nanoparticle with fluorescent molecules supported by covalent bonds (Fac. Sci., Fukuoka Univ.) ○NAKAMURA, Ikumi; YOSHIDA, Koji; OGIWARA, Yuta; SHIOJI, Kosei; KURISAKI, Tsutomu; YAMAGUCHI, Toshio
- 2PB-098** Synthesis of metal nanoparticles in ghost red blood cell (Coll. Life Sci., Ritsumeikan Univ.) ○MATSUMOTO, Honoka; IMAMURA, Hiroshi; KATO, Minoru; KOSHIYAMA, Tomomi
- 2PB-099** pH dependence of the adsorption state of DNA bases on gold nanoparticle surfaces (Fac. Sci., Saitama Univ.) ○YOSHIMOTO, Takahiro; FUTAMATA, Masayuki
- 2PB-100[#]** Unprecedented route to manganese oxide crystals with unique shape (Fac. Sci. Eng., Kindai Univ.) ○OHTA, Yusuke; ○SOEJIMA, Tetsuro
- 2PB-101** Stability of magnetic nanoparticles modified with various ligands for bio-application (Fac. Pharm. Sci., HSUH) ○SASAKI, Takahiro; HAMADA, Takuya; SATO, Kosuke; MURAI, Tsuyoshi
- 2PB-102** Surface enhanced infrared absorption spectra of p-mercaptobenzoic acid adsorbed on gold surfaces (Fac. Sci., Saitama Univ.) ○FUTAMATA, Masayuki; MATSUI, Mizuki
- 2PB-103** Surface-enhanced Raman scattering in biologically Raman silent region using liquid phase-dispersed silver island structures (Coll. Sci. Tech., Nihon Univ.; Coll. Sci. Tech., Nihon Univ.) ○NAKAMURA, Ryoya; FUKASAWA, Toru; NAGAI, Hiroaki; FURUYA, Masato; SUGAWA, Kosuke; OTSYKI, Joe; TOYAMA, Takeshi; KIMURA, Tsuyoshi
- 2PB-104** Photothermal therapeutic performance based on optical resonance properties of PbS nanoparticles (Coll. Sci. Tech., Nihon Univ.) ○FURUYA, Masato; DANNO, Miu; KIMURA, Tsuyoshi; SUGAWA, Kosuke; OTSUKI, Joe
- 2PB-105** Optical properties and application as photothermal therapy agent of anisotropic Ag /high refractive index semiconductor core/shell type nanoparticles (Coll. Sci. Tech., Nihon Univ.) ○HAYAKAWA, Yutaro; SUZUKI, Arisa; DANNO, Miu; SUGAWA, Kosuke; KIMURA, Tsuyoshi; OTSUKI, Joe
- 2PB-106** Plasmon enhancement of triplet-triplet annihilation-based upconversion using C70 fullerene as sensitizer (Coll. Sci. Tech., Nihon Univ.) ○MATSUI, Takuho; YOSHINARI, Satoshi; JIN, Shota; SUGAWA, Kosuke; OTSUKI, Joe
- 2PB-107** Effect of localized surface plasmon resonance on photoelectric conversion properties of semiconducting carbon nanotubes (Coll. Sci. Tech., Nihon Univ.) ○HONDA, Shohei; YOKOYAMA, Jun; NOGUCHI, Masaki; SUGAWA, Kousuke; OTSUKI, Joe
- 2PB-108[#]** Cononsolvency on the Association between Ion Exchange Resins Having Opposite Charges (Fac. of Edu., Yamaguchi Univ.) ○MURAKAMI, Kiyofumi; WAIZUMI, Kenji

Molecular Assemblies

- 2PB-109** Effects of Sugar Chain on Micellization Behaviors of Natural Glycoside (Fac. Eng., Toyama Pref. Univ.) ○MIYAZAKI, Ryo; NARGIS, Mahmuda; IHSAN, Abu Bin; KOYAMA, Yasuhiro
- 2PB-110** Preparation of Liposome by Mixed System of Homogeneous Polyoxyethylene Type Nonionic Surfactants and Hydrogenated Lecithin (Grad. Sch. Human. Sci., Nara Women's Univ.; NIKKOL GROUP Cosmos Technical Center Co., Ltd.) ○WANG, Shan; HASHIMOTO, Satoru; SUZUKI, Toshiyuki; YADA, Shiho; YOSHIMURA, Tomokazu
- 2PB-111** Solution Properties of Amino Acid-Based Surfactant with Phosphate Group Introduced to Carboxy Group of N-Acylalanine (Fac. Sci., Nara Women's Univ.; Miyoshi Oil and Fat Co., Ltd.) ○AMANO, Saya; KAWAKAMI, Hayato; YADA, Shiho; YOSHIMURA, Tomokazu
- 2PB-112** Construction of Janus-type FRET system using amylose-grafted curdlan (Grad. Sch. Eng., Sojo Univ.) ○KAMOGAWA, Kinoshige; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PB-113[#]** Molecular Recognition-Induced Self-association of Multi-Responsive

Copolymers with Cyclodextrins (ORIST; Fac. Eng., OIT) ○KAWANO, Shintaro; LIE, Jenni; UEDA, Shuuto; MURAOKA, Masahiro; SHIZUMA, Motohiro; ONO, Daisuke

- 2PB-114[#]** Mechanoresponsive alignment of molecular self-assembled negatively charged nanofibrils (OIST) ○CORTES, William; ZHANG, Ye
- 2PB-115** Preparation and physical properties of supramolecular hybrid hydrogel (Grad. Sch. Eng., Sojo Univ.) ○KURODA, Naofumi; EDAMOTO, Yuki; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PB-116[#]** Synthesis and Physicochemical Properties of Semiperfluoroalkyl Benzoate Derivatives (Fac. Eng., Yamaguchi Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MATSUMOTO, Kenta; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PB-117[#]** Synthesis and Gelation Ability of 4-Alkylthiophenol Derivatives Having Perfluoroalkyl Group (Fac. Eng., Yamaguchi Univ.; Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TOMARINO, Tatsuya; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PB-118[#]** Synthesis and Estimation of Physical Properties of Dimeric Organic Gelators with Central Alkylene Chain of Different Lengths (Grad. Sch. Sci. Tech., Yamaguchi Univ.; Fac. Eng., Yamaguchi Univ.) ○YOSHIMURA, Ryoichiro; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PB-119[#]** Synthesis of Low Molecular Weight Organic Compounds Having Fluoroalkyl chains at Both Terminal Position and Evaluation of Their Physical Properties (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○MIZOBE, Daiki; MURATA, Yuki; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PB-120[#]** Synthesis and Electrochemical Properties of 4-Mercapto Benzoate Derivatives Containing Perfluoroalkyl Group (Grad. Sch. Sci. Tech., Yamaguchi Univ.; Fac. Eng., Yamaguchi Univ.) ○SUGIURA, Takumi; YAMAGUCHI, Junya; MORITA, Yuki; OKAMOTO, Hiroaki
- 2PB-121** The effect of water contents of 1,3-dialkylimidazolium bromides on the temperature range of their liquid crystal (Fac. Sci. Eng., Soka Univ.) ○YAMAMOTO, Takuya; MAETA, Nobuyuki; SAGAWA, Ryo; OTA, Shori; ITO, Masato M.
- 2PB-122[#]** Protein secondary structure regulated by aggregation in amyloid degeneration (Fac. Pharm. Sci., TUS) ○SHIRATORI, Tomoki; SAKAGUCHI, Tomoyo; KASAI, Takahiro; SHIMADA, Yohsuke; OTSUKA, Yuta; GOTO, Satoru
- 2PB-123[#]** Liquid-liquid Phase Separated Droplets Proliferate via Concentration-induced Auto-catalysis (NINS) ○MATSUO, Muneyuki; KURIHARA, Kensuke

Organized Films

- 2PB-124[#]** Characterization of LB monolayers composed of quaternary ammonium cations and clay nanosheets prepared by electro-spray spreading (Dept. Appl. Chem., Nat. Def. Acad.) ○UMEMURA, Yasushi; HIRAHARA, Masanari
- 2PB-125** Dispersion of C₆₀ in its thin films mixed with fatty acid either at the air/water interface or at the transferred LB films (Fac. Sci., Josai Univ.) ○OZAWA, Nanako; TANUMA, Yuri; ○MITSUKE, Koichiro
- 2PB-126** Preparation of ultrathin metal oxide layers prepared from cationic Langmuir-Blodgett film and their application as a blocking layer for dye-sensitized solar cells (Sch. Eng., Tokyo City Univ.) ○TAKAHASHI, Masashi; OTOMO, Yu; OKURA, Kohei
- 2PB-127[#]** The Redox Behavior of Dopamine at Thiol-modified Gold Electrodes (Dept. Mat. Sci. Eng., Nat. Def. Acad.) ○OZAWA, Shinichi; NAKANO, Yusuke; UCHIDA, Tatsuki; NEMOTO, Fumiya; ABE, Hiroshi
- 2PB-128[#]** Development of triptycene-based molecular tripods enabling precision surface adsorption of functional molecular units on solid surfaces (Lab. Chem. Life Sci., Tokyo Tech.) ○NISHIKAWA, Kazuki; ISHIWARI, Fumitaka; SHOJI, Yoshiaki; FUKUSHIMA, Takanori
- 2PB-129** Shape changes of liposomes by the interaction of DNA (Grad. Sch. Eng., Hiroshima Univ.) ○KONDO, Soichiro; SUGIKAWA, Kouta; KAWASAKI, Riku; IKEDA, Atsushi

Solid Surfaces and Interfaces

- 2PB-130[#]** Structural analyses on single crystalline p-n heterointerfaces of bis (trifluoromethyl)-dimethyl-rubrene and (unsubstituted) rubrene (Fac. Sci. Technol., TUS) ○TAKAHASHI, Kana; IZAWA, Seiichi; TSURUTA, Ryohei; IWASHITA, Masaki; ENDO, Gota; GUNJYO, Yuki; HOSOKAI, Takuya; KOGANEZAWA, Tomoyuki; MOMIYAMA, Norie; HIRAMOTO, Masahiro; NAKAYAMA, Yasuo
- 2PB-131** Adsorption of flavonoids in a citrus fruit into mesoporous silica and its UV absorption properties (Sch. Biosci. Biotech., Tokyo Univ. of Tech.) ○NONOMURA, Eisuke; IZAWA, Chihiro; SHIBATA, Masashi
- 2PB-132** Incorporation of iron ion into the mesoporous silica and its UV-visible absorption characteristics (Sch. Biosci. Biotech., Tokyo Univ. of Tech.) ○YAMANAKA, Akihiro; IZAWA, Chihiro; SHIBATA, Masashi
- 2PB-133** pH dependence of SERS spectra of p-mercaptobenzoic acid adsorbed on silver surface (Fac. Sci., Saitama Univ.) ○SUDO, Akane; FUTAMATA, Masayuki

Organic Crystals

- 2PB-135[#]** Synthesis, Structure and Physical Properties of Bis-(phenanthroim-

- dazole) bearing Thiophene Ring (Grad. Sch. Sci., Josai Univ.)
 ○HORIKOSHI, Hodaka; YAMAZAKI, Maho; UENO, Hiroshi; AKITA, Motoko
- 2PB-136** Magnetic Circularly Polarized luminescence (MCPL) from organic-lanthanoid hybrid luminophore (Grad. Sch. Sci. Eng., Kindai Univ.; JASCO Co.; Grad. Sch. Eng., Osaka Pref. Univ.; Grad. Sch. Sci. & Tech., NAIST) YOSHIKAWA, Hiroki; KIMOTO, Takahiro; KONDO, Yoshiro; SUZUKI, Satoko; IKOMA, Manaka; YAGI, Shigeyuki; FUJIKI, Michiya; ○IMAI, Yoshitane
- 2PB-137** Crystalline-state chemiluminescence properties of 1,2-dioxetanes conjugated with a strongly luminescent fluorophore (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) NAKAGAWA, Maho; MATSUHASHI, Chihiro; MAKI, Shojiro; ○HIRANO, Takashi
- 2PB-138[#]** Pressure Effect on Reaction Cavity of Photochromism in Spiropyran Crystals (Grad. Sch. Eng., Sanyo-Onoda City Univ.; Fac. Eng., Sanyo-Onoda City Univ.) ○ASON, Morihiro; TAKEBAYASHI, Jun-ichiro; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 2PB-139[#]** Photoisomerization Condition of Diarylethene Crystals under Shear Stress (Grad. Sch. Eng., Sanyo-Onoda City Univ.; Fac. Eng., Sanyo-Onoda City Univ.) ○SAKAI, Tomoki; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 2PB-140** Relationship between Crystal Structures and Photoresponsive Coloring of Boronium Complexes Bearing Di(alkoxymethyl)bipyridine (Grad. Sch. Sci. Eng., Univ. of Toyama) ○YOSHINO, Junro; FUKUSHIMA, Moemi; HAYASHI, Naoto
- 2PB-141** Construction of porous organic salts composed of tetrasulfonic acid with porphyrin framework and *p*-substituted tritylamines (Sch. Eng., Osaka Univ.) ○YAGAMI, Hiroki; TSUCHIYA, Keiho; TOHNAI, Norimitsu
- 2PB-142[#]** Crystal structure of 2,4-dimethyl-1,5-benzodiazepinium hydrogensulfate (Grad. Sch. Sci., Josai Univ.) ISHIKAWA, Ryota; ○UCHIDA, Katsuya; SUZUKI, Mitsuaki
- 2PB-143[#]** Construction of Ionophore HOFs by crown ether derivatives with 4,4'-dicarboxy-*o*-terphenyl groups (Fac. Env. Earth Sci., Hokkaido Univ.) ○CHEN, Xin; HISAKI, Ichiro
- 2PB-144[#]** Construction of hydrogen-bonded organic framework composed of pyrazino[2,3-*b*]pyrazine derivative (Grad. Sch. Env. Sci., Hokkaido Univ.) ○JI, Qin; HISAKI, Ichiro
- 2PB-145[#]** Construction of cross- β -sheet crystalline materials by metal coordination (Fac. Eng., The Univ. of Tokyo) ○TSUNEKAWA, Eisuke; HISADA, Yutarou; SAWADA, Tomohisa; FUJITA, Makoto
- 2PB-146** Development of peptide type low molecular weight gelator with chiral cyclic β -amino acid (Grad. Sch. Sci., Eng., Saitama Univ.) ○OBATA, Masato; HIROSE, Takuji; KODAMA, Koichi
- 2PB-147** Optical resolution of sulfoxides by the salts of achiral amine/chiral carboxylic acid derived from natural amino acids (Fac. Eng., Saitama Univ.) ○WATANABE, Seiya; HIROSE, Takuji; KODAMA, Koichi
- 2PB-148[#]** Inclusion Ability and Crystal Structure of *N,N'*-Diphenyltartaric acid with Halogen Binding Sites (Grad. Sch. Eng., Chiba Univ.) ○FUJIHASHI, Nao; MATSUMOTO, Shoji; AKAZOME, Motohiro
- 2PB-149** X-Ray Crystallographic Analysis of Cyclic Dicarboxylic Acid Derivatives and Deracemization Involving Dynamic Crystallization (Fac. Eng., Chiba Univ.) ○NAKAMURA, Takumi; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; KASASHIMA, Yoshio; SAKAMOTO, Masami
- 2PB-150** Desymmetrization of meso-diols using crystal chirality (Grad. Sch. Eng., Chiba Univ.) ○WASHIO, Aoi; SANADA, Kazuhiro; UEMURA, Naohiro; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami

Monday, March 23, PM

(15 : 00~16 : 30)

Physical Chemistry -Structure-

Gas Phase

- 2PC-001** Fluorescence spectra of supersonic jet-cooled 5-fluoroindan-1-ol (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○NAKAJIMA, Shota; MIZUNO, Naoto; ISOZAKI, Tasuku; KASHIHARA, Wataru; SUZUKI, Tadashi
- 2PC-002** Investigation of measurement technique for collision-induced absorption of oxygen molecules by photoacoustic spectroscopy. (Coll. Sci. Eng., Aoyama Gakuin Univ.) ○HEMMI, Toya; KASHIHARA, Wataru; KAWAI, Akio; SUZUKI, Tadashi
- 2PC-003** High resolution spectroscopy of the $f^0 0^+ (^1D_2)$ ion-pair state of ^{135}Cl (Fac. Sci., TUS) ○MUTO, Yoshiki; HOSHINO, Shoma; NISHIMICHI, Daichi; YAMAOKA, Hiroki; TSUKIYAMA, Koichi
- 2PC-004** Collisional decay dynamics in the ion-pair states of molecular iodine (Grad. Sch. Sci., TUS) ○NISHIMICHI, Daichi; HOSHINO, Shoma; ABE, Rin; NAKANO, Yukio; ISHIWATA, Takashi; TSUKIYAMA, Koichi
- 2PC-005** Electron-transfer reaction in the ion-pair state of I_2 with rare-gas atoms (Fac. Sci., TUS) ○YAMAMOTO, Oji; HOSHINO, Shoma; NISHIMICHI, Daichi; TSUKIYAMA, Koichi
- 2PC-006[#]** Geometric quantum effect on $\text{NO}_3^- \cdot \text{H}_2\text{O}$ by using path integral molecular dynamics study (Grad. Sch. Eng., Yokohama Natl. Univ.)

○OKUWAHATA, Kazuaki; TACHIKAWA, Masanori

IR/Raman

- 2PC-007[#]** Application of Solid-State Vibrational Circular Dichroism for Layered Double Hydroxides: Intercalation Structure of Phenylalanine (Grad. Sch. Sci., Eng., Ehime Univ.) ○SATO, Hisako; TAKIMOTO, Kazuyoshi; KAWAMURA, Izuru; AISAWA, Sumio
- 2PC-008** Grain-orientation imaging of 2D perovskite thin films using low-frequency Raman microspectroscopy (Grad. Sch. Sci. Tech., Kwansai Gakuin Univ.; National Chiao Tung Univ.) ○YANAGITA, Naoya; TODA, Shogo; JOKAR, Efat; DIAU, Eric Wei-guang; SHIGETO, Shinsuke

Electronic State

- 2PC-009[#]** Electronic signature of the breathing transition in the metal-organic framework MIL-53(Al) by resonant inelastic x-ray scattering (RIXS) (Grad. Sch. Frontier Sci., The Univ. of Tokyo) ○UGALINO, Ralph; YAMAZOE, Kousuke; MIYAWAKI, Jun; KOSEGAWA, Yuka; WATANABE, Ryusuke; HARADA, Yoshihisa
- 2PC-010** Synthesis and Structures of Dimer of Alkylpyridinimine Derivatives (Sch. Eng., Tokyo Denki Univ.) ○IWASAKI, Naoya; MATSUMOTO, Naoto; SATO, Yuka; KIDO, Akiko; SUZUKI, Takayuki

Surface/Interface

- 2PC-011** Crystal growth of C70 fullerene on single crystal pentacene depending on temperature (Grad. Sch. Fac. Sci. Technol., TUS) ○TSURUTA, Ryohei; IWASAWA, Masato; TAKAHASHI, Kana; IWASHITA, Masaki; GUNJO, Yuki; ENDO, Gota; HOSOKAI, Takuya; KOGANEZAWA, Tomoyuki; YAMADA, Yoichi; NAKAYAMA, Yasuo
- 2PC-012[#]** Study on Assembly of the Heterogeneous Bilayer Based on a Thiolate Self-assembled Monolayer on Au(111) Substrates (Sch. Sci., Osaka Univ.) ○MUNEYASU, Riku; YAMADA, Takashi; KATO, Hiroyuki

Others

- 2PC-013[#]** Structural analysis of water-like solution at supercooled state (Fac. Sci., Fukuoka Univ.) ○NISHIMOTO, Suzuka; YOSHIDA, Kouji; YAMAGUCHI, Toshio; KURISAKI, Tsutomu

Physical Chemistry -Properties-

- 2PC-015[#]** Evaluation of hydrophobicity by orientation of water molecules (Grad. Sch. Eng., Utsunomiya Univ.) ○IWAI, Hidekazu; MORITA, Takeshi; YONENAGA, Kazuki; KOGA, Yoshikata; NISHIKAWA, Keiko
- 2PC-016** Molecular Symmetry and Rigidity Discussed on Phase Transition Temperatures (ICR, Kyoto Univ.) ○SHIMOAKA, Takafumi; HASEGAWA, Takeshi
- 2PC-017[#]** Study on the Gelation of Gellan Gum Using Fluorescent Probes (Grad. Sch. Eng., Osaka City Univ.) ○KOMETANI, Norisugu; MIURA, Ryo
- 2PC-018[#]** Preparation and Investigation of Photoisomerization Process of Spiropyran Based Ionic Liquid Containing Imidazolium Moiety (Grad. Sch. Eng., Sanyo-Onoda City Univ.; Fac. Eng., Sanyo-Onoda City Univ.) ○FUNABE, Shioh; FUNASAKO, Yusuke; INOKUCHI, Makoto
- 2PC-019[#]** Structural Changes and Solvation Free Energy Changes of Cyclic Peptides in Different Solvents (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○YANAGI, Koki; SHIGETA, Yasuteru; NISHIZAWA, Toshiaki; HARADA, Ryuhei; YOSHINO, Ryunosuke; MITSUTA, Yuki
- 2PC-020[#]** Physical properties of ionic liquid/poly(ethylene glycol) mixtures: Comparing with a neutral analog of its cation (Grad. Sch. Sci. Eng., Chiba Univ.) ○ANDO, Masatoshi; SHIROTA, Hideaki
- 2PC-021** Competitive growth of ice crystals (Sch. Sci. Eng., Meiji Univ.) ○TANAKA, Keitaro; NAGASHIMA, Kazusige
- 2PC-022** Camphor crystal behavior in storm glass under cyclic temperature change 2 (Sch. Sci. Eng., Meiji Univ.) ○ODAGIRI, Takumi; NAGASHIMA, Kazushige
- 2PC-023** population change of ice crystals in salt water under temperature cycling 2 (Dept. of Sci. Tech., Meiji Univ.) ○UCHIDA, Tomohiro; NAGASHIMA, Kazushige
- 2PC-024** Behavior of structural relaxation near the glass transition point in ionic liquid (C_4mim) BF_4 (Fac. Sci., Fukuoka Univ.) TANAKA, Ryouta; SHIMIZU, Haruto; ○NEGITA, Keishi
- 2PC-025[#]** Synthesis and Field-Effect Transistor Performances of Quinoidal Bisthienoisatin Derivatives (Sch. Mater. & Chem. Tech., Tokyo Tech.) KOHARA, Akihiro; HASEGAWA, Tsukasa; ○ASHIZAWA, Minoru; MASUNAGA, Hiroyasu; OHTA, Noboru; MATSUMOTO, Hidetoshi
- 2PC-026** Synthesis, Structures, and Physical Properties of a Novel Neutral Radical Conductor based on a Boron-bridged bisTTF Derivative (Fac. Adv. Sci. Tech., Kumamoto Univ.) ○SUEMUNE, Taro; UEDA, Akira
- 2PC-027** Physical Properties and Crystal Structure of Charge-ordered Insulator (MTDT-TTP) $_2\text{X}$ (Grad. Sch. Sci., TMU) ○WADA, Tomoya; YAMADA, Jun-ichi; KODAMA, Takeshi; KIKUCHI, Koichi
- 2PC-028** Electronic states and electrical properties under pressure of chiral

- and racemic DM-MeDH-TTP salts (Coll. Sci., Ibaraki Univ.)
○KOBAYASHI, Kento; SHIGA, Takuya; OSHIO, Hiroki; NISHIKAWA, Hiroyuki
- 2PC-029** Synthesis of novel 1,3-dichalcogenol-2-thione containing fluoro-methyl groups and development of their tetrachalcogenofulvalene derivatives (Grad. Sch. Eng., Nagaoka Univ. of Tech.) ○MURAKAMI, Mai; MIYAMOTO, Reimi; IMAKUBO, Tatsuro
- 2PC-030** Synthesis and structure of single-component molecular conductor [Ni(tmdt)] (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○AKIMOTO, Kenta; ZHOU, Biao
- 2PC-031[#]** Synthesis, structure and magnetic properties of a manganese complex with extended-tetrathiafulvalene dicarboxylate ligand (Grad. Sch. Integrated Basic Sci., Nihon Univ.) ○KAJIMURA, Kennto; ZHOU, Biao
- 2PC-032** Proton Conductivity of Alginate Acid/ Polyacrylic Acid/ Triazole Composites (Coll. Sci. Eng., Kanazawa Univ.) ○WATANABE, Ryota; SHIGETA, Yasuhiro; AMEMORI, Shogo; IDA, Tomonori; MIZUNO, Motohiro
- 2PC-033** Relationship between electronic structures and slow magnetic relaxations of a tetrahedral Co(II) complex having two bis-isoindole ligands (Grad. Sch. Sci., Osaka Univ.) ○ISHIZUKA, Akari; TAKAHASHI, Mari; FUKUDA, Takamitsu; FUYUHIRO, Akira; ISHIKAWA, Naoto
- 2PC-034** Synthesis and Physical Properties of Charge-Transfer-Salts with Re Complexes Coordinated by Pyridine Analog Ligands (Grad. Sch. Sci., TUS) ○TANIZAWA, Yuito; KANETOMO, Takuya; ENOMOTO, Masaya
- 2PC-035[#]** Characterization of x-Li(Mc) radical crystal having one-dimensional channels (Dept. Chem., Grad. Sch. Sci. & Tech., Kumamoto Univ.) ○MINE, Kosuke; MIYAKUBO, Yusuke; NISHI, Miki; HOSHINO, Norihisa; AKUTAGAWA, Tomoyuki; MATSUDA, Masaki
- 2PC-036[#]** Concentration dependence of Rabi splitting in coupled vibration-cavity polaritons (Grad. Sch. Mat. Sci., NAIST) ○STEMO, Garrek; PALETSCHEK, Jonas; KATSUKI, Hiroyuki; YANAGI, Hisao
- 2PC-037** Synthesis and photophysical properties of chiral perylene diimide derivative with hydrogen bonds (Coll. Sci., Ibaraki Univ.) ○ISAKA, Ryosuke; HOSOYA, Tomomasa; KANESAKA, Aoba; IMAI, Yoshitane; YAMAGUCHI, Akira; NISHIKAWA, Hiroyuki
- 2PC-038[#]** Photoreaction of Coumaril-4-methyl derivative which has electron donating group at 7-position (Grad. Sch. Sci., Hiroshima Univ.) ○TAKANO, Ma-aya; ABE, Manabu
- 2PC-039** Charge separation reaction of ADMA in polymer films: Observation by fluorescence excitation wavelength dependence (red-edge effect). (Coll. Life Sci., Ritsumeikan Univ.) ○FUCHIGAMI, Kosuke; NAGASAWA, Yutaka
- 2PC-040[#]** PVT properties of the ammonia + ammonium halide mixtures (IMRAM, Tohoku Univ.; IMASS, Nagoya Univ.) ○TOMIDA, Daisuke

Physical Chemistry -Chemical Kinetics and Dynamics-

- 2PC-043[#]** Nonadiabatic photodissociation without well-defined time constants and its quantum dynamical mechanism (RIES, Hokkaido Univ.; WPI-ICReDD, Hokkaido Univ.) ○MIZUNO, Yuta
- 2PC-044[#]** Stabilization of UV-5-fs Pulse Laser for Real-time Vibrational Spectroscopy (Fac. Eng., Kanagawa Univ.; Fac. Eng., Kanagawa Univ.) ○HASHIMOTO, Sena; YABUSHITA, Atsushi; OKAMURA, Kotaro; IWAKURA, Izumi
- 2PC-045** Ultrafast nonradiative deactivation and tautomerization of solvatochromic phenol blue dyes (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○HIDAKA, Tsubasa; SUGIHARA, Keita; MATSUMOTO, Akifumi; OTA, Chikashi; NAGASAWA, Yutaka
- 2PC-046** Excited state dynamics of a photochromic Hemiindigo derivative (Coll. Life Sci., Ritsumeikan Univ.) ○KIHARA, Yu; TANI, Shyuntaro; NAGASAWA, Yutaka
- 2PC-047[#]** Detection of the intermolecular interaction of biomolecules by using infrared fluorescent dyes embedded in phospholipid micelle (Fac. Sci., Gakushuin Univ.) ○TAKAKADO, Akira; IWATA, Koichi
- 2PC-048** Excitation energy transfer mechanism of B800 reconstituted LH2 biohybrids. (Coll. Life Sci., Ritsumeikan Univ.) ○MASAOKA, Yuto; HIDAKA, Tsubasa; YAMASHITA, Madoka; SAGA, Yoshitaka; NAGASAWA, Yutaka
- 2PC-049** Photochromic control of symmetrical spiropyran by short-lived metal complex formation (Grad. Sch. Life Sci., Ritsumeikan Univ.) ○KASAI, Yusuke; NAGASAWA, Yutaka
- 2PC-050[#]** Solvent viscosity dependence of non-radiation deactivation rate of AIE-active silole (Fac. Eng., Ehime Univ.) ○NISHIURA, Yuki; NAKAMURA, Mao; ISHIBASHI, Yukihide; ASAHI, Tsuyoshi
- 2PC-051[#]** Femtosecond pump-probe confocal light scattering microspectroscopic imaging of copper phthalocyanine nanorods (Fac. Eng., Ehime Univ.) ○TANAKA, Ryosuke; TANAKA, Hitomi; KIHARA, Ryo; ISHIBASHI, Yukihide; ASAHI, Tsuyoshi
- 2PC-052[#]** Control of photoisomerizations in photoionization of diarylethene derivative by using multi-pulse laser irradiation (Grad. Sch. Eng., FUT) ○MINOSAKI, Chika; ASADA, Rina; MORIKAWA, Kiyoka; OKA, Nanae; HARA, Michihiro
- 2PC-053[#]** The effects of solvents for the photochemical reactions of aromatics with carbon tetrachloride (Kobe City Coll. Technol.) ○NAKAZAWA, Shinta; WATANABE, Akihiro

- 2PC-054** Correlation between solute multiphoton ionization in solution and solvated electron formation: Direct detection by visible-near infrared broadband transient absorption spectroscopy (Sch. Eng. Sci., Osaka Univ.) ○MIYAKE, Yuuto; KOGA, Masahumi; SOTOME, Hikaru; MIYASAKA, Hiroshi
- 2PC-055** The effect of crystal structure on photo-induced electron injection processes in dye-sensitized TiO₂ films studied by time-resolved absorption and luminescence spectroscopy (Grad. Sch. eng., Nihon Univ.) ○WAKUI, Hiroki; KATOH, Ryuzi
- 2PC-056** Magnetic field effects on photochemical reactions in ionic liquids (Grad. Sch. Sci., Eng., Saitama Univ.) NISHIMURA, Shinpei; ○YAGO, Tomoaki; WAKASA, Masanobu
- 2PC-057[#]** Synthesis and Characterization of Flavin-(Trp)₃ Molecular Tetrad Related to Protein Magnetic Sensor (RPP., Oita Univ.) ○OKA, Yoshimi
- 2PC-058** Exciton Dynamics of InP and Core/shell InP/ZnS Quantum Dots (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○FUJITAKA, Ayana; EGUCHI, Daichi; TAMAI, Naoto
- 2PC-059[#]** Kinetics and Thermodynamics Study of Esterification Reaction on Self-Assembled Monolayer Surface (NIT, Tokyo College) ○TAKE, Yuto; ○ITO, Mikio; WAKAMATSU, Syuto

Biofunctional Chemistry ; Biotechnology

Molecular Recognition

- 2PC-061[#]** Measurements of the transient absorption spectra of *cis-trans-β*-apo-8' -carotenal and the analysis of their excited-state relaxation dynamics by Global and Target analysis (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HORIUCHI, Kota; URAGAMI, Chiasa; INOUE, Taiki; YUKIHIRA, Nao; KOSUMI, Daisuke; HASHIMOTO, Hideki
- 2PC-062[#]** Transient absorption measurement of fucoxanthin molecular aggregates by time-resolved absorption spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○INOUE, Shota; HASHIMOTO, Hiroki; HORIUCHI, Kota; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-063[#]** Characterization of fucoxanthin molecular aggregates by resonance Raman spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HASHIMOTO, Hiroki; SUZUKI, Hiroaki; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-064** Reconstitution of spirilloxanthin-series carotenoids into the LH2 complexes from a purple photosynthetic bacterium *Rhodospira rubra* R26.1, a carotenoidless strain (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KOYAMA, Rinka; URAGAMI, Chiasa; YOSHIDA, Marina; MITARAI, Mayu; YUKIHIRA, Nao; GARDINER, T. Alastair; COGDELL, J. Richard; HASHIMOTO, Hideki
- 2PC-065** Fabrication of molecular aggregates of lycopene isolated and purified from tomato paste and their evaluation using resonance Raman spectroscopy (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○KONDO, Kyoka; MAEDA, Chiaki; HASHIMOTO, Hiroki; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-066** Investigation of the optical properties of lycopene microcrystals by diffuse reflection and by UV-visible absorption spectroscopies (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MAEDA, Chiaki; KONDO, Kyoka; URAGAMI, Chiasa; SERA, Yoshihiko; NISHIOKA, Takanori; HASHIMOTO, Hideki
- 2PC-067[#]** Exploring the excited-state dynamics of β-carotene fixed in polymer films using time-resolved absorption spectroscopy (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○HINO, Kazuki; HORIUCHI, Kota; URAGAMI, Chiasa; HASHIMOTO, Hideki
- 2PC-068[#]** Incorporation of carotenoids into the reaction centers from a purple photosynthetic bacterium *Rhodospira rubra* R26.1 and investigation of the excitation energy-transfer (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○MITARAI, Mayu; YOSHIDA, Marina; YUKIHIRA, Nao; URAGAMI, Chiasa; HORIUCHI, Kota; HASHIMOTO, Hiroki; T. GARDINER, Alastair; COGDELL, Richard J.; HASHIMOTO, Hideki
- 2PC-069[#]** Reconstitution of carotenoids and bacteriochlorophyll *a* into the LH2 complexes from the carotenoidless mutant of a purple photosynthetic bacterium *Rhodospira rubra* R26.1 (Grad. Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YOSHIDA, Marina; MITARAI, Mayu; HORIUCHI, Kota; YUKIHIRA, Nao; URAGAMI, Chiasa; GARDINER, Alastair T.; COGDELL, Richard J.; HASHIMOTO, Hideki
- 2PC-070** Synthesis of an aqueous hemoglobin model complex having an allosteric function (Fac. Sci. Eng., Doshisha Univ.; Fac. Sci. Eng., Doshisha Univ.) ○ENDO, Fumiya; MAO, Qiyue; KITAGISHI, Hiroaki
- 2PC-071[#]** Protein photodamaging effect of P(V)tetrakis(4-chlorophenyl)porphyrin derivatives (Fac. Eng., Shizuoka Univ.) ○YAMAOKA, Shinya; ONISHI, Yusuke; HIRAKAWA, Kazutaka
- 2PC-072** Analysis of radical scavenging reaction of polyphenols (Grad. Sch. Maritime Sci., Kobe Univ.) ○MATSUMOTO, Kenji; HOTTA, Hiroki; KIMURA, Yukihiro; OSAKAI, Toshiyuki
- 2PC-073** Near-infrared up-conversion nanoparticles containing photosensitizer (NIT, Yonago College) ○SAKAMOTO, Keita; KATO, Yuki; SUZUKI, Akihiro; PHING SHAN, Lai; SHINODA, Satoshi; URUMA, Yosiyuki
- 2PC-074** Complexation of cationic chlorophyll derivatives and DNA (Fac. Sci. Tech., Ryukoku Univ.) ○KUNORI, Chigusa; NAKAMURA, Kazuki; KOBAYASHI, Norihisa; MIYATAKE, Tomohiro
- 2PC-075** Research and development of near-infrared photosensitizer (NIT,

- Yonago College) OKATO, Yuki; SAKAMOTO, Keita; SUZUKI, Akihiro; PHING SHAN, Lai; OKADA, Ftoshi; ONUMA, Kunishige; URUMA, Yoshiyuki
- 2PC-076** Preparation and physical properties of bicelles containing chlorophyll derivatives (Fac. Sci. Tech., Ryukoku Univ.) OTSUJI, Ryota; HORIUCHI, Ayu; MIYATAKE, Tomohiro
- 2PC-077[#]** Cadmium ion-specific fluorescent response of a TQEN-based oxygen-containing octadentate ligand (Fac. Sci., Nara Women's Univ.; Kyousei Sci. Center for Life and Nature, Nara Women's Univ.) OTSURUTA, Aya; KANEDA, Minori; MATSUMOTO, Arimasa; MIKATA, Yuji
- 2PC-078[#]** Synthesis and properties of bacteriochlorophyll-*a* derivatives and their effects on photocytotoxicity in cultured cells (Nagahama Institute of Bio-Science and Technology; Fac. Sci. Eng., Kindai Univ.; Grad. Sch. Life Sci., Ritsumeikan Univ.) OSHISHIOH, Nobue; YAMASHITA, Madoka; SAGA, Yoshitaka; YAMAMOTO, Hiroaki; IKEUCHI, Toshitaka; TAMIAKI, Hitoshi; SASAKI, Shin-ichi

Nucleic Acids

- 2PC-079** Synthesis and function of artificial oligonucleotides bearing azo-fluoranthene unit (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) KAMI, Yusuke; NISHIHARA, Tatsuya; TAKEUCHI, Ryo; OTANABE, Kazuhito
- 2PC-080[#]** Development of DNA-protein complex for functionalization of target cell using modification of cellular surface (Aoyama Gakuin Univ.) MORITANI, Shuhei; MOTOHASHI, Yuto; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 2PC-081** Cellular uptake and biological behaviors of the aggregate consisted of oligodeoxynucleotides bearing hydrophobic BODIPY unit at base group (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) YAMASHITA, Haruka; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 2PC-082[#]** Selective alkylation of parallel G-quadruplex structures (IMRAM, Tohoku Univ.; Sch. Sci., Tohoku Univ.; Tokyo Univ. of Agri. and Technol.) GANBOLD, Erchissaran; ONIZUKA, Kazumitsu; MA, Yue; SASAKI, Shogo; HAZEMI, Madoka; NAGASAWA, Kazuo; NAGATSUGI, Fumi
- 2PC-083** Tracking of DNA conformation with Raman spectra : Application of cytosine derivative bearing acetylene (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ISHIDA, Runa; ITAYA, Ryota; NISHIHARA, Tatsuya; TANABE, Kazuhito
- 2PC-084[#]** Conformation and properties of oligonucleotide with sulfonamide skeleton (Sch. Life Sci. Tech., Tokyo Tech.) EDAMURA, Wataru; SEKIYA, Syouta; MASAKI, Yoshiaki; SEIO, Kohji
- 2PC-085[#]** RNA synthesis using modified nucleic acid (Sch. Sci., Nagoya Univ.) OKATO, Shunichi; NAKAMOTO, Kosuke; HASHIYA, Humitaka; MURASE, Hirotaka; ABE, Hiroshi
- 2PC-086** Development of novel RNA fluorescence in situ hybridization using several photo-cross-linkable DNA probes (Sch. Mat. Sci., JAIST) WATANABE, Nanami; HASHIMOTO, Misaki; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-087** Photochemical regulation of gene expression using an ultrafast RNA photo-cross-linkable antisense probe (Sch. Mat. Sci., JAIST) OSHINO, Kanako; YANG CHUN, Hung; MIHARA, Junichi; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-088** Development of a novel photo-cross-linker with ability to recognize the counter base (JAIST) OSHIDA, Kenta; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-089[#]** Photochemical regulation of DNAzyme activity using reversible DNA photo-cross-linking (Sch. Mat. Sci., JAIST) WATANABE, Yasuha; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-090** Photoinducible double duplex invasion of DNA structure for antigene strategy (Sch. Mat. Sci., JAIST) HIRANO, Ayumu; MAEDA, Daisuke; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-091[#]** Development of novel photoresponsive artificial nucleic acid capable of photo-cross-linking with pyrimidine bases at different positions (Sch. Mat. Sci., JAIST) RYUKAN, Hideyuki; ISHIDA, Kenta; LI, Xue; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-092** Effect of around environment to conversion efficiency in photochemical C to U mutagenesis toward for photochemical RNA editing (Sch. Mat. Sci., JAIST) ONAKANO, Masaharu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-093[#]** Development of photo-induced gate transition using reversible DNA photo-cross-linking (Sch. Mat. Sci., JAIST) OZUMILA, Hailili; KITAMURA, Kanon; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-094[#]** "Regioselective functionalization of ribonucleosides by using borinic acid derivatives" (Fac. Pharm. Sci., TUS) OHATA, Kyoya; TSURUSAKI, Taiki; SATO, Kazuki; WADA, Takeshi
- 2PC-095** Synthesis and fluorescence property of modified oligonucleotides having the disubstituted silylated pyrene derivative with electron-donating group (Grad. Sch. Sci. Tech., Gunma Univ.) KONOU, Ryuu; SASAKI, Kaoruko; SHINOZUKA, Kazuo; MORIGUCHI, Tomohisa
- 2PC-096** Effect of photochemically constructed DNA nanostructure on the liposome surface (Sch. Mat. Sci., JAIST) ICHIKAWA, Masakatsu; UEHARA, Nobuharu; NAKAMURA, Shigetaka; FUJIMOTO, Kenzo
- 2PC-097** Development of the highly sensitive detection of HPV-16 by signal amplification using catalytic hairpin assembly reaction (Grad. Sch. Sci. Tech.,

- Gunma Univ.) KOIDE, Kenshiro; SHINODUKA, Kazuo; MORIGUCHI, Tomohisa
- 2PC-098[#]** Solid-phase Synthesis of 2' -O-Methyl RNA Containing Amide-linked RNA Modified with Pyrene at the 2' -Position (Fac. Life & Env. Sci., Teikyo Univ. of Sci.) IWASE, Reiko; NAKAJIMA, Gaku; ANDO, Miki; HAYAKAWA, Miki; HASHIMOTO, Misaki; UEDA, Kenji; TAKAHASHI, Hideyuki
- 2PC-099[#]** Synthesis of cross-linking oligonucleotides with α -bromoaldehyde derivatives (KIT) SUDANI, Kota; TATSUMI, Soichi; OTA, Ryo; WAKU, Tomonori; KOBORI, Akio
- 2PC-100[#]** Development of the novel artificial nucleic acids to induce the base flipping out (Grad. Sch. Sci., Tohoku Univ.; IMRAM, Tohoku Univ.) YAJIMA, Sayaka; ONIZUKA, Kazumitsu; ISHIDA, Kei; NAGATSUGI, Fumi
- 2PC-101** Nucleic acid binding selectivity of RGG domain in TLS/FUS regulated by arginine methylation (Fac. Sci., Shizuoka Univ.) OYOSHI, Takanori; MASUZAWA, Tatsuki; YAGI, Ryota; KAWAI, Shinnosuke

Protein and Peptide

- 2PC-102[#]** Stereoselective carbon-carbon bond formation using a monoclonal antibody as a reaction field (Grad. Sch. Sci., Osaka Univ.) ADACHI, Takuma; HARADA, Akira; YAMAGUCHI, Hiroyasu
- 2PC-103[#]** Modification of titanium surface with peptide for implant materials (Grad. Sch. Sci. Tech., Ryukoku Univ.) OSONE, Tomoki; TOMIZAKI, Kin-ya
- 2PC-104[#]** Control of a cascade reaction using enzymes modified with poly(N-isopropylacrylamide) (Sch. Sci., Osaka Univ.) KIUUCHI, Yusuke; KOBAYASHI, Yuichiro; YAMAGUCHI, Hiroyasu
- 2PC-105[#]** Breakdown of amyloid fibrils by mid-infrared free electron laser (Grad. Sch. Sci., TUS) OJINDO, Mikiko; KAWASAKI, Takayasu; IMAI, Takayuki; HOSHINO, Shoma; NAKAMURA, Kazuhiro; TSUKIYAMA, Koichi
- 2PC-106[#]** Synthesis and secondary structures of mitochondria-localization signal peptides derived from aldehyde dehydrogenase (Fac. Sci. Tech., Ryukoku Univ.) TAKAYAMA, Kei; TOMIZAKI, Kin-ya
- 2PC-107[#]** Development of peptide-based drug delivery system competent in endosomal escape (Fac. Sci. Tech., Ryukoku Univ.) HIROTA, Shogo; IMAI, Takahito; YAMASAKI, Masayuki; TOMIZAKI, Kin-ya
- 2PC-108** Fibrilization of amyloid induced by physical damage (Suzuka Univ. of Med. Sci.; Dep. Chem., Sch. Sci., Kyoto Univ.; WPI-iCeMS, Kyoto Univ.) TASHIRO, Ryu; TAGUCHI, Hiroaki; HIDAHA, Kumi; ENDO, Masayuki; SUGIYAMA, Hiroshi
- 2PC-109[#]** Synthesis and the peptidic structures of *p*-boronophenylalanine-like aza-amino acid (azaBPA)-containing azapeptides (Grad. Sch. Eng., Utsunomiya Univ.) MIYATA, Kota; NARITA, Airi; FUJISAWA, Ryota; YOSHIZAWA, Yuka; ROPPOINGI, Makoto; ITO, Satoshi; TAMESUE, Shingo; OBA, Toru
- 2PC-110[#]** Renaturation of inactivated concanavalin A (ConA) by treatment with hydrated ionic liquid (Sch. Pharm., TUPLS) OFUI, Ryota; ICHIDA, Kimiyoshi; FUJITA, Kyoko
- 2PC-111[#]** Analysis of uric acid excretion in rat intestine using electrochemical methods (Sch. Pharm., TUPLS) MORI, Yuuki; YAMADA, Hiroki; ICHIDA, Kimiyoshi; FUJITA, Kyoko
- 2PC-112[#]** Analysis of the secretion of indoxyl sulfate through the transporter with the electrochemical measurement (Sch. Pharm., TUPLS) OKANO, Kohei; WAKUI, Yuri; ICHIDA, Kimiyoshi; FUJITA, Kyoko
- 2PC-113[#]** Synthesis of collagen model peptides with a phosphate group and a cell recognition site (Fac. Sci. Tech., Ryukoku Univ.) HORI, Garyu; TOMIZAKI, Kin-ya
- 2PC-114[#]** Synthesis of aromatic compounds that selectively reduce gold ions in the presence of different metal ions (Fac. Sci. Tech., Ryukoku Univ.) TERAMURA, Shungo; TOMIZAKI, Kin-ya; IMAI, Takahito; ASANO, Masahiro
- 2PC-115** Dissolution and refolding of aggregated recombinant cellulase with hydrated ionic liquids (Sch. Pharm., TUPLS) YANAGISAWA, Shun; ICHIDA, Kimiyoshi; NAKAMURA, Nobuhumi; OHNO, Hiroyuki; FUJITA, Kyoko
- 2PC-116[#]** Positioning the catalytic phosphate ion in threonine synthase (Osaka Med. Coll.) MACHIDA, Yasuhiro; MURAKAWA, Takeshi; HAYASHI, Hideyuki
- 2PC-117[#]** Photocontrol of (Pro-Pro-Gly)_n Collagen Peptide Triple Helix Self-assembly (Grad. Sch. Life Sci. Sys. Eng., KIT) ONISHI, Haruya; YAMAWAKI, Yuki; SATO, Daisuke; KATO, Tamaki
- 2PC-118** Development of thioamide bond formation using phosphonium-type condensing reagents (Fac. Pharm. Sci., TUS) SUZUKI, Ayaka; TAKAGI, Kazunori; SATO, Kazuki; WADA, Takeshi
- 2PC-119[#]** Covalent modification of arginine side chain using α -haloaldehyde (KIT) KOBATA, Kentaro; WATARI, Yu; OTA, Ryo; WAKU, Tomonori; KOBORI, Akio
- 2PC-120[#]** Synthesis of glyco-dendrimers and their proliferation effect (Grad. Sch. Life Sci., Toyo Univ.) SEKIGUCHI, Maki; AMANO, Yoshitsugu;

Sugar

YANO, Tomohiro; HASEGAWA, Teruaki

- 2PC-121** Development and functionalization of yeast derived β -1,3-glucans (Grad. Sch. Eng., Sojo Univ.) ○ISHIDA, Kazuma; TAMARU, Shun-ichi; SHINKAI, Seiji
- 2PC-122** Morphology control of giant vesicles through the dynamic formation of neoglycolipids. (Sch. Mat. Sci., JAIST) ○INABA, Shusei; MATSUO, Muneyuki; KURIHARA, Kensuke; YAMAGUCHI, Takumi
- 2PC-123[#]** synthesis of CMP-KDO and its derivatives (Coll. Life Sci., Ritsumeikan Univ.) ○MERA, Yuki; KIKUMA, Takashi; TAKEDA, Yoichi

Lipid/Biomembrane

- 2PC-124[#]** Evaluation of hydration state of protein-lipid interface by using fluorescence probes (Grad. Sch. Sci., Osaka Univ.) ○KOCHI, Ai; UMEGAWA, Yuichi; MURATA, Michio
- 2PC-125** Elucidation of the lipid nanodomain structures in model bilayer membranes using sphingomyelin FRET probes (Grad. Sch. Sci., Osaka Univ.) ○TOMOTA, Chihiro; YANO, Yo; HANASHIMA, Shinya; MURATA, Michio; LONDON, Erwin
- 2PC-126[#]** Thermal stability of phase-separated domains in negatively charged lipid membrane by addition of salt (Sch. Mat. Sci., JAIST) ○NAGATA, Yosutugu; HIKICHI, Keita; HIDESE, Ryota; FUJIWARA, Shinsuke; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 2PC-127** Creation of lipid cubic phase using on amino acid lipids with terminal modification site (Grad. Sch. Sci. & Tech., NAIST) ○KARIYA, Miki; OMOTO, Kenichiro; YASUHARA, Kazuma; HAYASHI, Yugo; KAMIKUBO, Hironari; RAPENNE, Gwénaél
- 2PC-128** Crystal growth of calcium phosphate in ghost red blood cell (Coll. Life Sci., Ritsumeikan Univ.) ○OKUICHI, Kentaro; IMAMURA, Hiroshi; KATO, Minoru; KOSHIYAMA, Tomomi
- 2PC-129[#]** Stability of phase-separated structures in biomimetic membranes with vitamin E (Sch. Mat. Sci., JAIST; Fac. Life Med. Sci., Doshisha Univ.) ○NAKTANI, Yusuke; URANO, Yasuomi; NOGUUCHI, Noriko; SHIMOKAWA, Naofumi; TAKAGI, Masahiro
- 2PC-130** Anticancer activity of membrane-active cationic polymers (Grad. Sch. Sci. & Tech., NAIST) ○HACHINO, Ayumi; Rapenne, Gwénaél; YASUHARA, Kazuma
- 2PC-131[#]** Evaluation of irritancy induced by surfactants based on Flip-Flop rate and deformation dynamics of biomimetic membranes (Sch. Mat. Sci., JAIST) ○FUJINE, Shiho; SASAKI, Yosuke; SHIMOKAWA, Naofumi; TSUJINO, Yoshio; TAKAGI, Masahiro
- 2PC-132** Design and bioactivity of amphiphilic calixarene derivatives acting on biomembranes (Grad. Sch. Sci. & Tech., NAIST) ○HIRONAKA, Ayano; ISHIHARA, Mika; RAPENNE, Gwénaél; YASUHARA, Kazuma

Cell

- 2PC-133** The effects of membrane-bound proteins in red blood cells on vascular constituent cells in the process of wound healing (Grad. Sch. Sci., TUS) ○KAWANA, Ryo; YOSHIMURA, Ayaka; KITANISHI, Kenichi; SHIMONAKA, Motoyuki
- 2PC-134[#]** Spatiotemporal regulation for angiogenesis using scanning probe system (Grad. Sch. Environmental Studies, Tohoku Univ.) ○IMAIZUMI, Takuto; NASHIMOTO, Yuji; INO, Kosuke; SHIKU, Hitoshi
- 2PC-135** development of substrate integrated Au nano pillar - micro well and IL-6 detection in single-cell level using LSPR (Grad. Sch. Eng., Osaka Univ.) ○OBARA, Aina; XI, Luo; TERADA, Yuhei; SAITO, Masato; TAMIYA, Eiichi

Biotechnology

- 2PC-136[#]** Research on correlation between the carotenoid pigments produced by *Staphylococcus aureus* and the bacterial photoinactivation phenomenon (V) (Grad. Sch. Eng., Toin Univ. of Yokohama) ○NISHIMURA, Tomoya; SAITO, Kiyoshi
- 2PC-137[#]** Photodynamic inactivation of causative microorganism causing nosocomial infections (Fac. Bio. Eng., Toin Univ. of Yokohama) NAKANE, Riho; YAMAMOTO, Keisuke; NISHIMURA, Tomoya; SAKAGUCHI, Natsuna; SHIMONO, Mayu; ○SAITO, Kiyoshi
- 2PC-138** A study toward the development of color test paper for detection of thiols (Fac. Life Med. Sci., Doshisha Univ.) ○YOSHIMURA, Kano; NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo
- 2PC-139** Quantitative analysis of enzymatic activities by using small fluorescent molecular probes (Fac. Life Med. Sci., Doshisha Univ.) ○OHISHI, Nagisa; KADOTA, Yukari; NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo
- 2PC-140** Development of method for tryptophan measurement using paper micro devices (Grad. Sch. Info. Sci., Hiroshima City Univ.) ○KUGIMIYA, Akimitsu; OGAWA, Ryo; SAITO, Toru; KOHDA, Jiro; NAKANO, Yasuhisa; TAKANO, Yu
- 2PC-141** Synthesis of novel molecular probes toward simultaneous detection of two type of enzymes (Fac. Life Med. Sci., Doshisha Univ.) ○ISHIDA, Kirara; CHINZEI, Ai; NAKAMURA, Yushi; OE, Yohei; OHTA, Tetsuo
- 2PC-142** A Novel Monitoring System for Intracellular glycation (Tokyo Univ. of Tech.) ○SAKAGUCHI-MIKAMI, Akane; SAKURAI, Maho;

KOJIMA, Shoya; SUGIMOTO, Yukimi; KASHIBA, Misato

- 2PC-143[#]** To Screen TNKS inhibitor by virtual screening: potential compounds to treat Glioblastoma (Biochemistry, Tzu Chi Univ.) ○PAN, Sheng-feng; HSU, Hao-jen
- 2PC-144[#]** Development of a microbial biosensor for detection of 2,4-dinitrotoluene as an indicator for landmines (Grad. Sch. Bionics, Computer & Media Sci., Tokyo Univ. of Tech.) ○NONODA, Hayato; AKIMOTO, Takuo
- 2PC-145** Centrifugal-Driven Microchamber Array for Cell Pairing and Analysis (Grad. Sch. Eng., Osaka Univ.) ○OKUI, Yuga; ESPULGAR, Wilfred; SAITO, Masato; TAKAMATSU, Hyota; TAMIYA, Eiichi
- 2PC-146[#]** Laminin-derived peptide FFF-YIGSR self-assembled to inhibit glioma cell migration and invasion (OIST) ○MANG, Dingze; ZHANG, Ye

Biocatalytic Reaction

- 2PC-147** Development of aldehyde oxidation reaction by immobilized aldehyde dehydrogenase (Sch. Life Sci. Tech., Tokyo Tech.) ○OGURA, Kazuki; HAWARI, Muhammad Arisyi; MATSUDA, Tomoko
- 2PC-148** Development of Lipase-Mediated Epoxidation in Supercritical Carbon Dioxide (Sch. Life Sci. Tech., Tokyo Tech.) ○UIKE, Ryudai; SURYADINATA, Henry; HOANG, Nam Hai; MATSUDA, Tomoko
- 2PC-149[#]** The asymmetric synthesis of alkylaryl sulfoxides by oxidation of sulfide with a novel Baeyer-Villiger monooxygenases from *Fusarium* sp. NBRC 109816 (Sch. Life Sci. Tech., Tokyo Tech.) ○LAN HUONG, Le Viet; NEMOTO, Hiroumi; MAEDA, Haruka; TAKAGI, Michio; TAMURA, Mayumi; KOESOEMA, Afifa Ayu; MATSUDA, Tomoko
- 2PC-150** The effect of esterifying alkyl groups on the 1³-dealkoxycarbonylion of zinc chlorophyll derivatives by a BciC enzyme (Coll. Life Sci., Ritsumeikan Univ.) ○HIROSE, Mitsuki; TERAMURA, Misato; HARADA, Jiro; TAMIYAKI, Hitoshi
- 2PC-151[#]** Lipase-Catalyzed *tert*-Butoxycarbonylation of Diols (Grad. Sch. Sci., Osaka Pref. Univ.) ○KISHI, Naoki; KOJIMA, Hideo
- 2PC-152[#]** Lipase-Catalyzed Silylation of Alcohols (Grad. Sch. Sci., Osaka Pref. Univ.) ○AZUMA, Ko; KISHI, Naoki; KOJIMA, Hideo
- 2PC-153[#]** Asymmetric Reduction of Ketones Using Submerged Aquatic Plants of the Family Potamogetonaceae (Grad. Sch. Sci., Osaka Pref. Univ.) ○TSUJI, Takuma; YOSHIDA, Jina; KOJIMA, Hideo
- 2PC-154[#]** Asymmetric Reduction of Benzoylformic Acid Esters Using Cyanobacterium *Synechocystis* sp. PCC 6803 (Grad. Sch. Sci., Osaka Pref. Univ.; Himeji Dokkyo Univ.; Fac. Sci., Josai Univ.) ○TANAKA, Shusei; KOJIMA, Hideo; TAKEDE, Satomi; YAMANAKA, Rio; TAKEMURA, Tetuo
- 2PC-155[#]** Synthesis of gentianine N-oxide by enzymatic reaction of swertia-marin abundant in Swertia herb (International University of Health and Welfare; Showa Univ.) FUJII, Mikio; ○NOGUUCHI, Takaya; KURAMOCHI, Taiki; NAKAKUKI, Yuh; HIRAI, Yasuaki
- 2PC-156[#]** Light-driven and mediator-free hydrogen evolution using a combination of a photosensitizer and a recombinant *Escherichia coli* whole-cell biocatalyst (Fac. Sci., Nara Women's Univ.) ○HONDA, Yuki; SHINOHARA, Yuka; FUJII, Hiroshi
- 2PC-157[#]** Synthesis and Evaluation of Radical Scavenging Activity of Gallotannins Containing a Quinic Acid Moiety (Grad. Sch. Sci., Osaka Pref. Univ.; QST-NIRS) KISHI, Naoki; ○KOJIMA, Hideo; SHOJI, Yoshimi; NAKANISHI, Ikuro
- 2PC-158** Synthesis of novel polyketides by a recombinant An-CsyA, a type III polyketide synthase, derived from *Aspergillus niger* NRRL 328 (Grad. Sch. Advanced Sci. Eng., Waseda Univ.) ○IIDUKA, Kyohei; SAEKI, Shiho; ISHII, Yoshitaka; KIRIMURA, Kohtarō

Others

- 2PC-159[#]** Transformation of a DNA origami nanoarm through cumulative actuation of tension-adjustable modules (FRIS, Tohoku Univ.) ○SUZUKI, Yuki; KAWAMATA, Ibuki; MIZUNO, Kohei; MURATA, Satoshi

Theoretical Chemistry, Chemoinformatics, and Computational Chemistry

Theory, Informatics, and Computational Methods

- 2PC-161[#]** A Computational approach to the intercalation of naphthalimido derivative into DNA (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ○IWAI, Yudai; MATSUI, Toru; OTSUKA, Takao; SUMITA, Masato; IZAWA, Hironori; MORIHASHI, Kenji
- 2PC-162[#]** A semiempirical improvement of solvent model by machine learning (Sch. Sci. Eng., Univ. of Tsukuba) ○TOSAKA, Kana; OSAKI, Yamato; MATSUI, Toru; MORIHASHI, Kenji
- 2PC-163** Development of machine-learned electron correlation model based on frozen core approximation (Sch. Advanced Sci. Eng., Waseda Univ.; WISE; PRESTO, JST; ESICB, Kyoto Univ.) ○FUJISAWA, Ryo; IKABATA, Yasuhiro; SEINO, Junji; YOSHIKAWA, Takeshi; NAKAI, Hiromi
- 2PC-164[#]** Generation of dataset for Machine learning forcefield for Pt using ANI-1 (Grad. Sch. Sci., Osaka Univ.) ○HAYASHI, Akihide; OKUMURA,

Mitsutaka

- 2PC-165** Search for crystal structure candidates using the ADDF method with packing rate function (Grad. Sch. Sys. Eng., Wakayama Univ.) OOKI, Takuto; KODAYA, Yoshitomo; MIDORO, Yuuki; YAMAKADO, Hideo
- 2PC-166[#]** The hierarchy of observable reaction networks associated with observation time-intervals (WPI-ICReDD, Hokkaido Univ.) ONAGAHATA, Yutaka; TAKETSUGU, Tetsuya; MAEDA, Satoshi; KOMATSUZAKI, Tamiki

Structure and Fluctuation

- 2PC-167[#]** Molecular Dynamics Simulations of 3α -dihydrosteroid Dehydrogenase- 5α -dihydrotestosterone Complex (Grad. Sch. Sci. Eng., Ibaraki Univ.) O MITSUIZUMI, Hiroaki; MORI, Seiji
- 2PC-168** Theoretical Study on Molecular Structures and Collision Cross Sections of IgG Fc Region Glycopeptide Ions 1. Effects of Glycosylation, Hydroxyl Group and Charge (Grad. Sch. Human Sci., Nara Women's Univ.) ONAKAMURA, Yoshimi; TAKEUCHI, Takae
- 2PC-169[#]** A theoretical study on molecular cluster of citric acid (Div. of Chem., Fac. Pure Appl. Sci., Univ. of Tsukuba) TANAKA, Yoshihiro; O MATSUI, Toru; OTSUKA, Takao; SUMITA, Masato; IZAWA, Hironori; MORIHASHI, Kenji
- 2PC-170** Structural and dynamic analysis of CtBP2-NADH complex using molecular dynamics simulation (CCS, Univ. of Tsukuba) OAOYAGI, Tsukasa; MITSUTA, Yuki; YOSHINO, Ryunosuke; SHIGETA, Yasuteru

Chemical Reaction and Dynamics

- 2PC-171** A Quantum Chemical Study on Double Proton Transfer in Base Pair Model (Sch. Sci. Eng., Kokushikan Univ.) UMEZAKI, Keisho; OODAI, Kei
- 2PC-172** Development and verification of molecular dynamics calculation tool considering chemical reaction (ITOCHU Techno-Solutions Corporation) OYABE, Makoto; MORI, Kazuki; KOYANAGI, Jun
- 2PC-173** Computational approach to the Grubbs mechanism of synthesis of point-fluorinated cycloalkenes: the structure and the energy for the transition state of the Grubbs reaction (Grad. Sch. Eng., Tottori Univ.) OHAYASE, Shuichi; NOKAMI, Toshiaki; ITOH, Toshiyuki
- 2PC-174[#]** Theoretical study on the formation reaction of cyanoformaldehyde in Sagittarius B2(N) region (Faculty of Eng., Chiba Inst. of Tech.) OTANIYAMA, Syusei; MATSUZAWA, Hidenori
- 2PC-175[#]** Theoretical study on the formation pathways of benzene and phenylacetylene in Titan's atmospheric environment (Faculty of eng., Chiba Inst. of Tech.) OMONMA, Tomoya; MATSUZAWA, Hidenori
- 2PC-176[#]** Mechanism study for carbonylation reactions catalyzed by immobilized Pd catalyst (Grad. Sch. Frontier Sci., The Univ. of Tokyo) OSASAKI, Takehiko
- 2PC-177[#]** Computational chemical verification of activation of [R3Si-IPr]-Pd catalyst precursor in Suzuki-Miyaura cross-coupling reaction (Sch. Sci. Eng., Univ. of Tsukuba) OFUJIWARA, Jun; OSAKI, Yamato; VLADIMIR YA., Lee; MATSUI, Toru; MORIHASHI, Kenji
- 2PC-178[#]** Correlation between excited state inter-molecular-proton transfer and pKa of atomic urea derivatives (Grad. Sch. Pure Appl. Sci., Univ. of Tsukuba) ONOZAWA, Shu; ONOZAWA, Shu; NISHIMURA, Yoshinobu; MORIHASHI, Kenji
- 2PC-179** Reactivities of transition metal clusters M2-5 (M = Fe, Co, Ni, and Cu) for non-oxidative coupling of methane: A systematic DFT study (Fac. Sci., Hokkaido Univ.) OICHINO, Tomoya; MAEDA, Satoshi

Property and Functionality

- 2PC-180** Thermal Stabilities and Conformational Behaviors of Isocyanurates and Cyclotrimerization energies of Isocyanates: A Computational Study (RISC, AIST; CD-FMat, AIST) OUCHIMARY, Tadafumi; YAMANE, Shogo; MIZUKADO, Junji; TSUZUKI, Seiji
- 2PC-181[#]** Prediction of hole mobilities using modified Marcus equation (Sch. Sci. Eng., Univ. of Tsukuba) OKAWAGUCHI, Yukari; MORIHASHI, Kenji; MATSUI, Toru
- 2PC-182[#]** Theoretical study on effects of hydrated ion on the hydrogen bonds between water and water in the sodium ion-water cluster $\text{Na}^+(\text{H}_2\text{O})_6$ (Faculty of eng., Chiba Inst. of Tech.) OFURUKAWA, Chisa; IWATA, Suehiro; MATSUZAWA, Hidenori
- 2PC-183[#]** Theoretical study on effects of hydrated ion on the hydrogen bonds in $\text{Li}^+(\text{H}_2\text{O})_n$ ($n=1-6$) clusters (Faculty of Eng. Chiba Inst. of Tech.) OFURUKAWA, Tatsuya; IWATA, Suehiro; MATSUZAWA, Hidenori
- 2PC-184** Theoretical study on the electronic states of giant molecules composed of phenylene units (Dept. of Chem. Eng., NIT, Nara College) OYONEDA, Kyohei

others

- 2PC-185[#]** *In silico* study on the allosteric role of sodium ion modulate dopamine receptor D₃R (Biochemistry, Tzu Chi Univ.) OYEH, Yu Chen; HSU, Hao-jen
- 2PC-186[#]** *In silico* study on the mechanism of Stepholidine in dopamine D1 and

- D2 Receptor (Biochemistry, Tzu Chi Univ.) OSUN, Yu-ting; HSU, Hao-jen
- 2PC-187** Affinity comparison of Human Immunodeficiency Virus-1 neutralizing antibodies to glycans on the glycoprotein by quantum chemical calculations (Coll. Liberal Arts Sci., Kitasato Univ.) OUENO-NOTO, Kaori

Tuesday, March 24, AM

(10 : 00~11 : 30)

Organic Chemistry -Reaction and Synthesis-
Organometallic Compounds

Mg

- 3PA-001[#]** Development of organic reaction using 1-chlorovinyl *p*-tolyl sulfides as metal acetylide sources (Fac. Sci., TUS) OSEKIGUCHI, Koto; KIMURA, Tsutomu

Sc

- 3PA-002[#]** Sc(OTf)₃-catalyzed Direct Cyclization of Aromatic Thiols with Diols via Dehydrative Catalytic C-S and C-C Bond Formation (Grad. Sch. Sci., Eng., Yamagata Univ.) OMINAKAWA, Maki; MINAMI, Keisuke; SATO, Yuya

Re

- 3PA-003[#]** One-pot Synthesis of Isoquinolines by the Rhenium-catalyzed Reactin of 2-(Alkynyl)benzaldehydes (Fac. Chem. Materials and Bioeng., Kansai Univ.) OYASHIMA, Hiroki; ISHIDA, Tetsuya; UMEDA, Rui; NISHIYAMA, Yutaka

Fe

- 3PA-004[#]** Hydrosilane Reduction of Tertiary Amides: Controlling of the Product Selectivity by Transition Metal Catalysts (Grad. Sch. Eng. Sci., Kyushu Univ.) OTACHIKAWA, Haruki; SANAGAWA, Atsushi; NAGASHIMA, Hideo

Ru

- 3PA-005[#]** γ -Lactam synthesis via catalytic intramolecular Csp³-H insertion reaction of amide carbene (Toyoohashi Univ. of Tech.) OFUJII, Takuji; DANG, Thi Thu Huong; IWASA, Seiji

Co

- 3PA-006** Hydrosilylation of Alkenes and Alkynes Catalyzed by Cobalt Nanoparticles (Fac. Chem. Materials and Bioeng., Kansai Univ.) OKURODA, Yushi; SUZUKI, Takeyuki; OBORA, Yasushi

Rh

- 3PA-007** Highly Enantioselective Rhodium-Catalyzed Asymmetric 1,2-Addition of Arylboronic Acids to Isatins with (*R,R*)-Sulfoxide-MOP Ligand (Fac. Eng., Niigata Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.) HOSHI, Takashi; OUEYAMA, Yutaro; MATSUSHIMA, Shouta; SUZUKI, Thoshio

Ir

- 3PA-008[#]** Iridium Complex-Catalyzed Rapid Dehydrogenation of 2,5-Dimethylpiperazine (Grad. Sch. Human and Environ. Stud., Kyoto Univ.) OJEONG, Jaeyoung; FUJITA, Ken-ichi
- 3PA-009** DMF-Stabilized Iridium Nanoparticles Catalyzed Cross-Alkylation of Primary Alcohols via Hydrogen Autotransfer Reaction (Fac. Chem. Materials and Bioeng., Kansai Univ.) OKOBAYASHI, Masaki; OBORA, Yasushi
- 3PA-010** Chiral Iridium Complex Derived from [IrCl(cod)]₂ and Azolium Salt: Preparation, Characterization, and Catalytic Activity (Fac. Chem. Materials and Bioeng., Kansai Univ.) O MATSUKI, Toshiya; SAKAGUCHI, Satoshi
- 3PA-011** Ir-catalyzed Hydrosilylation of Ketone Using Chiral Azolium Salt Derived from Substituted Azole and Chloromethyl Polystyrene (Fac. Chem. Materials and Bioeng., Kansai Univ.) OINUI, Kazuki; SAKAGUCHI, Satoshi

Ni

- 3PA-012[#]** Nickel catalyzed cycloaddition polymerization of 1,6-dienes (Dept. of Material & Life Chem., Kanagawa Univ.) OKABE, Yusaku; YAMADA, Takeshi; OKAMOTO, Sentaro
- 3PA-013[#]** Ni-Catalyzed Decarbonylative Amination of Acyl Fluorides (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) OLIU, Li; NISHIHARA, Yasushi

Pd

- 3PA-014** Development of Chiral Imidazo[1,5-*a*]pyridine Carbene Ligand Having Anionic Coordination Site (Fac. Eng., Gifu Univ.) ○ENDO, Koki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PA-015** Application of Imidazo[1,5-*a*]pyridine Carbene Ligands to Mizoroki-Heck Reaction (Fac. Eng., Gifu Univ.) ○KAWASE, Tomoyuki; SHIBATA, Yoshihuru; IKEYAMA, Yoshiki; SHIBAHARA, Fumitoshi; MURAI, Toshiaki
- 3PA-016** Efficient Suzuki-Miyaura Coupling Reactions of Heterarylboronic Acid Esters with (Hetero)aryl Bromides (Fac. Eng., Niigata Univ.; Grad. Sch. Sci. and Technol., Niigata Univ.) ○HOSHI, Takashi; SASAKI, Yuki; SUZUKI, Toshio
- 3PA-017** Pd/Cu-Cocatalyzed Cross-Coupling Reaction of Acyl Fluorides with Alkynylsilanes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; RIIS, Okayama Univ.) ○CHEN, Qiang; FU, Liyan; NISHIHARA, Yasushi
- 3PA-018** Cross-addition of alkynes using palladium complexes having phosphine-amidine chelate ligands (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○YAMAMOTO, Yuka; MONMAE, Tomoya; TSUKADA, Naofumi
- 3PA-019** Allylation of Aldehydes with Allylsilanes Formed from Silyl-Substituted Allylpalladium Intermediates (Grad. Sch. Sci. Eng. For Edu., Univ. of Toyama) ○ISHIBASHI, Mayo; HORINO, Yoshikazu
- 3PA-020** Ti-Pd Alloys Catalyzed Alkylation of Methylquinolines with alcohols (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○UTSUNOMIYA, Masayoshi; KONDO, Ryota; OBORA, Yasushi
- 3PA-021** Chiral Amine-Derived P,Olefin Type Chiral Ligands for Pd-Catalyzed Asymmetric Allylic Alkylation with Malonate (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○FUJISAWA, Yohei; KUMADA, Manami; YAMAGUCHI, Daiki; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 3PA-022** Palladium-Catalyzed Asymmetric Allylic Alkylation of Indoles Using Axially Chiral Amidophosphine Ligands with Cinnamoyl Group (Grad. Sch. Eng., Chiba Univ.) MINO, Takashi; ○KOKI, Kaito; YOSHIDA, Yasushi; SAKAMOTO, Masami
- 3PA-023** Development of a heterogeneous palladium on silicon carbide as chemoselective hydrogenation catalyst (Gifu Pharm. Univ.) ○HARUKA, Yamamoto; KWIHWAN, Park; TSUYOSHI, Yamada; HIRONAO, Sajiki
- 3PA-024** Pd-Catalyzed Difunctionalization of 1,3-Diene with Alcohol and Disilane under Oxygen Atmosphere (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TORII, Kazuyuki; OBORA, Yasushi

Pt

- 3PA-025** Platinum-Catalyzed Nucleophilic Substitution of Acetals with Alkynylsilanes (Fac. Eng., Saitama Univ.) ○SAKURAZAWA, Yuji; MIURA, Katsukiyo; KINOSHITA, Hidenori

Cu

- 3PA-026** Cu-Catalyzed S-S Bond Cleavage/S-Alkylation/Cyclization Cascade Reactions of Diaryl Disulfides with Diols: Access to Sulfur Heterocycles (Grad. Sch. Sci., Eng., Yamagata Univ.) ○SATO, Soma; MINAKWA, Maki
- 3PA-027** Cu-catalyzed Asymmetric Allylic Substitution Reaction Under the Influence of 1,2-Cyclohexanediamine-based Azolium Salt (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○TAKAYANAGI, Shota; SAKAGUCHI, Satoshi
- 3PA-028** Arylamine synthesis catalyzed by DMF-stabilized copper nanoparticles (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○KIMURA, Yuki; KITAI, Katsuya; OBORA, Yasushi

Ag

- 3PA-029** Asymmetric α -Azidation of Alkenyl Esters Using Chiral Phosphine-Silver Alkoxide Catalysts (Grad. Sch. Sci., Chiba Univ.) ○INOUE, Yume; WATANABE, Takamichi; YANAGISAWA, Akira

Sn

- 3PA-030** Asymmetric α -Azidation of β -Ketoesters Using Chiral Tin Alkoxide Catalysts (Grad. Sch. Sci., Chiba Univ.) ○TAKAGI, Kotaro; EBIHARA, Toru; RUSSELL, Go Martin; HORIGUCHI, Moe; WATANABE, Takamichi; YANAGISAWA, Akira

Organic Chemistry -Reaction and Synthesis-
Organic Photochemistry

- 3PA-033** Evaluation of Intramolecular Singlet Fission of Tetracene Dimers with Different Linker Units (Fac. Sci. Tech., Keio Univ.) ○MURAMATSU, Shihō; NAKAMURA, Shunta; SAKAI, Hayato; HASOBE, Taku
- 3PA-034** Rational design of fluorescence probes based on quantum chemical prediction of intramolecular spirocyclization (Grad. Sch. Pharm., The Univ. of Tokyo) ○KELLER, Sascha; URANO, Yasuteru; KAMIYA, Mako;

TACHIBANA, Ryo

- 3PA-035** Computational analysis of luminescence color changes affected by pK values of some residues and hydrogen bond networks around active center of firefly luciferase and its mutants (Grad. Sch. Life Sci., Toyo Univ.) ○NOSAKA, Kota; KUDO, Yuto; WADA, Naohisa
- 3PA-036** Synthesis of Imidazopyridinium Salts Having Potential Application as Image-guided Photodynamic Therapy Agents (Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ.) ○YAGISHITA, Fumitoshi; TANIGAWA, Jun-ichi; OKAMOTO, Masaki; HASE, Eiji; TAKANARI, Hiroki; TABATA, Atsushi; NAGAMUNE, Hideaki; MINAMIKAWA, Takeo; YASUI, Takeshi; IMADA, Yasushi; KAWAMURA, Yasuhiko
- 3PA-037** Synthesis and photochemical reactions of carbon-bridged and nitrogen-bridged [3.3](1,4)naphthalenophanes (Grad. Sch. Nat. Sci. Technol., Okayama Univ.; Grad. Sch. Sci. Tech., Gunma Univ.; Adv. Sci. Res. Center, Okayama Univ.) ○OGUMA, Yukiko; YAMAMOTO, Masanori; YAMAJI, Minoru; OTA, Hiromi; OKAMOTO, Hideki
- 3PA-038** Stereoselective Norrish-Yang Reactions of Imidazolidinone Derivatives Using Quaternary Ammonium Salts (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○MIYASHITA, Kahoko; YAMADA, Shinji
- 3PA-039** Cross [2 + 2] photocycloaddition of conjugated alkenes through cation- π interactions (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○NITANAI, Yukari; YAMADA, Shinji
- 3PA-040** Solid phase [2+2] photodimerization of styrylpyridines using naphthols as catalysts (Grad. Sch. Of Humanities & Sci., Ochanomizu Univ.) ○MIYAMOTO, Momoyo; YAMADA, Shinji
- 3PA-041** Photoreaction of Carbon Dioxide with Aryl Halides Using Various Photosensitizers and Reductants (Grad. Sch. Sci. & Tech., Meijo Univ.) ○NISHIZAWA, Takuma; NAGATA, Toshi
- 3PA-042** Photoreaction at the liquid/liquid interface with an amphiphilic porphyrin sensitizer (Grad. Sch. Sci. & Tech., Meijo Univ.) ○SHIMA, Hinako; NAGATA, Toshi
- 3PA-043** Study on oxidative lactonization using visible light (Yokohama Coll. of Pharmacy) ○YAMAGUCHI, Maika; SHOJI, Mitsuru

Organic Chemistry -Reaction and Synthesis-
Organic Electron Transfer Chemistry

- 3PA-045** Synthesis and Photophysical Properties of Alkene Derivatives with Bulky Rind Groups (Fac. Sci. Eng., Kindai Univ.) ○OHNO, Mayo; SUGANO, Kohei; YAMADA, Kohei; MATSUO, Tsukasa

Natural Products Chemistry

- 3PA-047** The synthetic study of Scopadulciol (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○TAKAHASHI, Arimi; ISHIKAWA, Yuichi
- 3PA-048** Synthetic study of Haebaruol (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○RINGA, Kotaro; ISHIKAWA, Yuichi
- 3PA-049** Synthesis of Brachyidin B and Its Analogues (Fac. Eng., Kindai Univ.) SASAJIMA, Ami; ○OKADA, Yoshiharu
- 3PA-050** Simultaneous Analysis of antioxidant properties and thermal degradation of oryzanol in heated tiracylglycerols (NARO) ○TSUZUKI, Wakako; KOMBA, Shiro; KOTAKE-NARA, Eiichi
- 3PA-051** Stereoselectivity of Julia Olefination using C2-substituted A ring in VD3 Synthesis (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○MIZUMOTO, Yuka; SAKAMOTO, Ryota; Sedghi Masoud, Shadi; NAGATA, Akiko; ORIHARA, Tatsuya; KAWAGOE, Fumihiko; KITTAKA, Atsushi; ODAGI, Minami; NAGASAWA, Kazuo
- 3PA-052** Transformation of Terpenoids Using Halogenase (Grad. Sch. Eng., The Univ. of Tokyo) ○JUNG, Youngcheol; MITSUHASHI, Takaaki; FUJITA, Makoto
- 3PA-053** Synthesis of saxitoxin enantiomers and evaluation of their inhibitory activity towards sodium channel (Grad. Sch. Fac. Eng., Tokyo Univ. of Agri. and Technol.; Grad. Sch. Agric. Sci., Tohoku Univ.) ○TAKAYANAGI, Yuka; ADACHI, Kanna; ISHIZUKA, Hayate; CHIBA, Osamu; KONOKI, Keiichi; YOTSU-YAMASHITA, Mari; ODAGI, Minami; NAGASAWA, Kazuo
- 3PA-054** Synthetic Study of Dragmacidin C Using Photochemical Reaction (Fac. Sci. Tech., Keio Univ.) ○FUJII, Shusuke; KAWAKAMI, Shota; ARAI, Yohei; SHIOKAWA, Zenyu; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
- 3PA-055** Synthetic Study of Fungal Terpene Alkaloid Funiculosin (Fac. Sci. Tech., Keio Univ.) ○YAMAGUCHI, Ryosuke; ZUI, Naoto; SATO, Keisuke; SAITO, Yu; MATSUMARU, Takanori; INUKI, Shinsuke; FUJIMOTO, Yukari
- 3PA-056** ¹³C NMR calculation for multi-step synthesis of amino acids (Grad. Sch. Nanobiosci., Yokohama City Univ.) ○OIKAWA, Masato
- 3PA-057** Optical resolutions of derivatives of α -alkylserines by crystallizations. (Fac. Chem. Materials and Bioeng., Kansai Univ.) ○SONODA, Hiroto; YAJIMA, Tatsuo
- 3PA-058** Transfer Hydration of α -Amino Nitriles for Amino Acid Synthesis (Grad. Sch. Sci., Nagoya Univ.; RCMS, Nagoya Univ.) ○TAMURA, Tomoyo; LIANG, Taimeng; NOYORI, Ryoji; NAKA, Hiroshi
- 3PA-059** Creation of novel natural products and structure determination by the CS method (Grad. Sch. Eng., The Univ. of Tokyo) ○KAGEYAMA, Ko; MITSUHASHI, Takaaki; FUJITA, Makoto

Chemical Biology

- 3PA-061** Synthesis of optically active cognac lactone and its biological activities (Fac. Eng., Kitami Inst. of Tech.) ○SHIMOTORI, Yasutaka; KAKU, Satsuki; HASHIMOTO, Masatoshi; OHTSU, Naofumi; HOSHI, Masayuki; OGAWA, Narihito; MIYAKOSHI, Tetsuo
- 3PA-062** Pharmacological effect about mycelium of basidiomycetes (Fac. Eng., KAIT) ○KAWAKAMI, Shohei; SAITO, Takashi
- 3PA-063[#]** Synthesis and functional evaluation of α -GalCer derivatives with distinctive lipid structures (Fac. Sci. Tech., Keio Univ.) ○SUEYOSHI, Kodai; HIRATA, Natsumi; KISHI, Junichiro; INUKI, Shinsuke; MATSUMARU, Takanori; FUJIMOTO, Yukari
- 3PA-064[#]** Synthesis and Biological Functions of Lyso-phosphatidylinositol (Fac. Sci. Tech., Keio Univ.) ○OKUBO, Kana; ARAI, Youhei; MAYSUMARU, Takanori; FUJIMOTO, Yukari
- 3PA-065[#]** Evaluation of electrophilic groups for gold nanoparticle-based affinity labeling probes (Fac. Eng., Tokyo Univ. of Agri. and Technol.) ○SHIONE, Kamoshita; SUTO, Nanako; KAORI, Sakurai
- 3PA-066[#]** Synthesis of mannitol lipid "44-2" and its analogs, and evaluation of their signaling activity through C-type lectin receptor Mincle (Fac. Sci. Tech., Keio Univ.) MATSUMARU, Takanori; ○SAKURATANI, Kasumi; FUJIMOTO, Yukari
- 3PA-067[#]** Development of activatable fluorescence probes for detecting basic carboxypeptidase activity (Grad. Sch. Med., The Univ. of Tokyo) ○IWAKI, Hirohisa; KAMIYA, Mako; URANO, Yasuteru
- 3PA-068[#]** Development of activatable Raman imaging probes for detecting enzyme activity (Grad. Sch. Pharm., The Univ. of Tokyo) ○FUJIOKA, Hiroyoshi; KAMIYA, Mako; SHOU, Jingwen; IINO, Takanori; OZEKI, Yasuyuki; URANO, Yasuteru
- 3PA-069[#]** Analysis on amino acid sequences of viral capsid proteins by the k-mer frequency and neural network methods (Grad. Sch. Sci., Kitasato Univ.) ○HASHIMOTO, Ayaka; YONEDA, Shigetaka; WATANABE, Go
- 3PA-070[#]** Development of new fluorescent probes for live imaging utilizing electronic and physical characteristics of carboranes (Grad. Sch. Pharm., The Univ. of Tokyo) ○TSUNETOMI, Junya; KAMIYA, Mako; URANO, Yasuteru
- 3PA-071[#]** A novel strategy to precisely control and predict fluorescence of hydroxymethyl rhodamine derivatives by introducing electrophiles (Grad. Sch. Pharm., The Univ. of Tokyo) ○NANJO, Aika; TACHIBANA, Ryo; URANO, Yasuteru
- 3PA-072[#]** Development of fusicoccin-based selective fluorescent labeling agents for 14-3-3 σ -Cys38 (Fac. Agr., Shinshu Univ.) ○TANAKA, Kenta; OHKANDA, Junko
- 3PA-073** Development of a fluorescent probe for detection of fumaric acid in live cells (Grad. Sch. Pharm., Kyushu Univ.) ○TOKUMARU, Hiroki; UCHINOMIYA, Shohei; OJIDA, Aki
- 3PA-074** Novel cycloaddition between acetylene and azide groups in biofunctional molecules upon hypoxic X-irradiation (Grad. Sch. Sci., Eng., Aoyama Gakuin Univ.) ○AKISAWA, Kento; NISHIHARA, Tastyu; TANABE, Kazuhito
- 3PA-075** Establishing diagnostic technology for transplanted exosomes by integrating fluorescent nanomaterials and tissue clearing technology (Sch. Eng., Nagoya Univ.) ○URANO, Daichi; YUKAWA, Hiroshi; ONOSHIMA, Daisuke; SUSAKI, Etsuo; UEDA, Hiroki; BABA, Yoshinobu
- 3PA-076[#]** Signaling Attenuation and Degradation of Calcium Ion Channel via E-fragment Application (Grad. Sch. Sci., The Univ. of Tokyo) ○LEE, Ying-hsien; LI, Yang; ENDO, Mizuki; OZAWA, Takeaki
- 3PA-077[#]** Comparison of off/on characteristics of fluorescent probes by contact/separation of donor and acceptor (Nagahama Institute of Bio-Science and Technology) ○KATO, Yumi; KAWAI, Yasushi

Tuesday, March 24, PM

(12 : 30~14 : 00)

Applications of Materials

- 3PB-001** Removal of Organic Compounds from Water by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomeric silica Composites Gels (Grad. Sch. Sci. Tech., Hirosaki Univ.) ○YAMASHITA, Katsumi; OKADA, Seigo; SAWADA, Hideo
- 3PB-002** Preparation and Properties of Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Two hydroxy End-capped Poly(dimethylsiloxane) Composites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) YOKOUCHI, Taiga; ○YAMASHITA, Katsumi; SAWADA, Hideo
- 3PB-003[#]** Preparation of fluorinated diol/poly(vinyl alcohol)/silica/zirconium composites possessing an oleophobic/superhydrophilic characteristic: Application to the surface (Grad. Sch. Sci. Tech., Hirosaki Univ.; UNIMATEC) ○SAENGAKEW, Jitraporn; MORIMOTO, Takanobu; YAMASHITA, Katsumi; KANEUMI, Yoshiyama; KIJIMA, Tetsushi; KOKIN, Keisuke; SAWADA, Hideo
- 3PB-004** Preparation of fluorinated alcohols/cellulose fiber/silica (zirconium) composites: Application to removal of low molecular weight aromatic

compounds from water (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.; UNIMATEC) YAMAMOTO, Shunta; ○TONO, Kako; KANEUMI, Yoshiyama; KIJIMA, Tetsushi; KOKIN, Keisuke; SAWADA, Hideo

- 3PB-005** Preparation, Surface Wettability and Application of Fluoroalkyl End-capped Oligomer/Cellulose Fiber/Zirconium Composite (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) YAMAMOTO, Shunta; ○TONO, Kako; SAWADA, Hideo
- 3PB-006** Adsorption of Fluorinated Monomers by Fluoroalkyl End-capped Vinyltrimethoxysilane Oligomer/Cyclodextrin Polymer Composites (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.; Kankyo-Kougaku Co.,Ltd) MORIMOTO, Takanobu; ○DOUYA, Nanako; YAMASHITA, Katsumi; SUZUKI, Jun-ichi; SAWADA, Hideo
- 3PB-007** Preparation of Fluorinated Oligomer/Poly(vinyl alcohol)/Zirconium Composites possessing an Oleophobic/superhydrophilic Characteristic on the Modified Glass Surface (Fac. Sci. Tech., Hirosaki Univ.; Grad. Sch. Sci. Tech., Hirosaki Univ.) YAMAGAMI, Kouki; ○IWASAKI, Takato; ARAKAWA, Koki; SAWADA, Hideo
- 3PB-008** Preparation and Properties of Fluorinated Diol/Zirconium Composites (Grad. Sch. Sci. Tech., Hirosaki Univ.; UNIMATEC) ○SAITO, Ryo; YAMAMOTO, Shunta; KANEUMI, Yoshiyama; KIJIMA, Tetsushi; KOKIN, Keisuke; SAWADA, Hideo
- 3PB-009[#]** Fluorescence Properties of Maleimide Derivatives Bearing 4-Substituted Phenyl Groups and Their Thiol Adducts (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○TAKAMURA, Tatsuki; YAMABUKI, Kazuhiro; ONIMURA, Kenjiro
- 3PB-010** Development of low-temperature formation technology of tungsten oxide thin film using photo-assisted sol-gel method and application to flexible hydrogen sensor (Coll. Eng., Shibaura Inst. of Tech.) ○NAKAMURA, Keigo; OOISHI, Tomoji
- 3PB-011** Development of resist and low environmental load patterning technology using latent pigments and siloxane-based modified acrylic resin for high-definition flexible color filter (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○TAKAHASHI, Karin; OHISHI, Tomoji
- 3PB-012** A facile formation method of colored film on heat-resistant PET using latent pigment and ink jet printing method and its application to flexible color filter (Coll. Eng., Shibaura Inst. of Tech.) ○TAKIZAWA, Ayaka; OHISHI, Tomoji
- 3PB-013[#]** Equisetum Arvensis of Wild Grass Derived Hierarchical SiO₂/C as Low-cost and Environmental-friendly Anode Materials for Lithium-Ion Batteries (Grad. Sch. Life Sci. Sys. Eng., KIT) ○CHEN, Yun; MA, Tingli
- 3PB-014** Solvatochromism of a naphthalenediol-containing spiropyran derivative (RCSEC, Osaka Univ.; Grad. Sch. Eng. Sci., Osaka Univ.) ○TAKAGI, Shunsuke; SHIRAIISHI, Yasuhiro; HIRAI, Takayuki
- 3PB-015** Synthesis and halochromism properties of bispyrrole squaraine dyes (Fac. Eng., Gifu Univ.; Kyungpook National University) KUBOTA, Yasuhiro; ○NAKAZAWA, Masato; NAOI, Ryoma; INUZUKA, Toshiyasu; FUNABIKI, Kazumasa; LEE, Joon Hun; KIM, Taekyeong
- 3PB-016[#]** Stabilization of chlorophyll derivative pigment by complexation with inorganic host (Fac. Eng., Shizuoka Univ.) ○KATSURA, Naoya; SHIBATA, Masashi; KOHNO, Yoshiumi; WATANABE, Ryo; FUKUHARA, Choji
- 3PB-017** Dyeing and Hydrochromic Properties of Silk-Fabric using Mg-Alizarin Complex (Kyoto Municipal Institute of Industrial Tech. and Culture) ○INOUCHI, Toshifumi; YABUCHI, Kai; UESAKA, Takahiro
- 3PB-018** Solid Materials that Release a physiologically active gas, H₂S, in Response to Air (MANA, NIMS; MANA, NIMS) ○IYI, Nobuo; ISHIHARA, Sinsuke
- 3PB-019** Structure-activity relationship of chemical compounds with growth inhibitory activity against human leukemia cell lines (Grad. Sch. Sci. Eng., The Univ. of Electro-Communications) ○TAKESHITA, Yoshito; YOSHIDA, Chihiro; HIGASHI, Tomoya; HACHIRO, Yoshihumi; NAKATA, Chihiro; YAGI, Takuya; TAKECHI, Azusa; KITADA, Nobuo; HARA, Takahiko; MAKI, Shoujiro
- 3PB-020[#]** Multifaceted analysis of natural lacquer films (JEOL Ltd.) ○NIIMURA, Noriyasu; NISHIOKA, Hideo; TERASHIMA, Hiroshi; KAMO, Osamu; SHIMOIKEDA, Yuichi
- 3PB-021** Investigation of technology to give gas barrier characteristics of polysilazane-derived SiO₂ thin films on CNF film composed of organic resin using ultraviolet irradiation (Grad. Sch. Eng. Sci., Shibaura Inst. of Tech.) ○ISONO, Satoki; OHISHI, Tomoji

Resources Utilization Chemistry

- 3PB-023[#]** Reaction of Olive Oil with Iodine in the Presence of Ethanol: Formation of the Iodoethoxylated Fatty Acids Ethyl Esters (Aichi Univ. of Educ. Part of Chemistry) ○SHIMIZU, Fuzuki; IKEGAMI, Nao; HOR, Senghai; NAKANO, Hirofumi
- 3PB-024** Effect of Supercritical Carbon Dioxide Condition on Extraction of Valuable Products from Biomass (RCPT, AIST) ○YAMAGUCHI, Aritomo; SATO, Osamu
- 3PB-025** Examination of organic electrolysis for lignin degradation (NIT, Yonago College) ○ISHIHARA, Moe; HONDA, Nozomi; YAMADA, Tomohiro; KAMEYAMA, Masayuki; MAEKAWA, Hirohumi; URUMA, Yoshiyuki

- 3PB-026** Development of Organic Electrolytic Reaction for the Lignin Decomposition (NIT, Yonago College) ○YAMADA, Tomohiro; HONDA, Nozomi; ISHIHARA, Moe; MAEKAWA, Hirofumi; URUMA, Yoshiyuki
- 3PB-027** Biobased epoxy derivatives from unsaturated fatty acid, vegetable and fish oil, and synthesis of thermosetting polymers (ORIST) ○INOUE, Yohtaro

Energy and Related Chemistry, Geo and Space Chemistry

- 3PB-029** Improvement of the performance of rechargeable organic batteries using indigo analogues (Kobe City Coll. Technol.; RIECEN, AIST) ○YOSHIDA, Wataru; YAO, Masaru; TAKEICHI, Nobuhiko; YASUDA, Keisuke
- 3PB-030[#]** Hollow Silicon Nanotubes via In-situ Synthesis on Carbon Cloth as Anode Material for High Capacity Lithium-ion Batteries (Grad. Sch. Life Sci. Sys. Eng., KIT) ○LIU, Hongbin; MA, Tingli
- 3PB-031** Deposition morphology and electrochemical behavior of Li negative electrode under an electrolyte with Mg cation encapsulated by crown ether (Fac. Eng., Shinshu Univ.) ○TAGASHIRA, Kazuki; SHIMIZU, Masahiro; ARAI, Susumu
- 3PB-032** Electrochemical intercalation/deintercalation behavior of Mg ion into/from graphite interlayer (Fac. Eng., Shinshu Univ.) ○NAKAHIGASHI, Atsuhito; SHIMIZU, Masahiro; ARAI, Susumu
- 3PB-033** Evaluation of electrocatalytic properties of oxygen reduction reaction of corrole and porphyrin modified platinum catalyst (Fac. Eng., Shizuoka Univ.; Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) KATO, Minami; BOLDBAATAR, Mischeel; ○MIYABAYASHI, Keiko
- 3PB-034[#]** Electrochemical reduction of carbon dioxide using Cu salophen as an electrocatalyst (Grad. Sch. Sci. & Tech., Meijo Univ.) ○AWAZU, Kosuke; NAGATA, Toshi
- 3PB-035[#]** Fabrication of Carbon Electrodes Modified with Two Metal Porphyrins and Electrochemical Reduction of CO₂ Using the Electrodes (Grad. Sch. Sci. & Tech., Meijo Univ.) ○ASAI, Ryota; NAGATA, Toshi
- 3PB-036** Low-temperature synthesis of anatase TiO₂ particles using Ti(IV) clusters and their applications for solar cells (Fac. Eng., Gifu Univ.) ○YAMAZAKI, Mizuki; IKUTA, Naoya; SUGIURA, Takashi; MANSEKI, Kazuhiro
- 3PB-037[#]** Electron blocking effect at the interface of perovskite/hole-transporting layer on perovskite solar cells with donor-acceptor conjugated polymer (RCPV, AIST) ○ONOZAWA-KOMATSUZAKI, Nobuko; NISHIHARA, Yoshihiko; CHIKAMATSU, Masayuki; YOSHIDA, Yuji
- 3PB-038[#]** Fabrication and characterization of organic thin-film solar cells using non-fullerene acceptors (Fac. Sci. Eng., Kindai Univ.) ○EZOE, Hinata; GENNO, Wataru; TANAKA, Senku; OKUBO, Takashi; MAEKAWA, Masahiko; KURODA-SOWA, Takayoshi
- 3PB-039** High efficiency and durability of CuInS₂ quantum dot solar cells using sulfide-based ionic liquids (Fac. Eng., OIT) ○KOMATSU, Koki; HIGASHIMOTO, Shinya
- 3PB-040[#]** Cs-incorporated AgBi₄ Rudorffite for Efficient and Stable Solar Cells (Grad. Sch. Life Sci. Sys. Eng., KIT) ○YU, Fengyang; MA, Tingli
- 3PB-041** Preparation of bis-substituted fullerene derivatives using selective functionalization for fullerene molecule (ORIST) ○ITO, Takatoshi; IWAI, Toshiyuki; MATSUMOTO, Fukashi; SUMINO, Shuhei; OHNO, Toshinobu
- 3PB-042** Synthesis of Aromatic Amine Derivatives containing Triphenylbenzene Core for Perovskite Solar Cells (RCPV, AIST) ○FUNAKI, Takashi; ONOZAWA-KOMATSUZAKI, Nobuko; MURAKAMI, Takurou; CHIKAMATSU, Masayuki
- 3PB-043** Fabrication of CuInS₂ thin film by one step electrodeposition of Cu-In alloy and the photoelectrochemical properties of CuInS₂ thin film. (Fac. Eng., OIT) ○TANAKA, Mitsuru; HIGASHIMOTO, Shinya
- 3PB-044[#]** An efficient Ru/CeO₂ catalyst for ammonia synthesis (RENRC, AIST) ○JAVOID, Rahat; KOBAYASHI, Keisuke; NAGATA, Yuki; NANBA, Tetsuya
- 3PB-045** Study on arsenic behavior in the neighboring rivers of Ebino Plateau caused by Mt. Ioyama eruption (Grad. Sch. Arts and Sci., The Univ. of Tokyo) ○YANG, Pianpian; SHOZUGAWA, Katsumi; HORI, Mayumi; TAKAKURA, Ryo; MATSUO, Motoyuki

Tuesday, March 24, PM

(15 : 00~16 : 30)

Organic Chemistry -Reaction and Synthesis- Aliphatic and Alicyclic Compounds

- 3PC-001[#]** Synthesis and Vitamin D Receptor Affinity of 16-oxa Vitamin D₃ Derivatives-1 (Grad. Sch. Eng., Kanagawa Univ.) ○OGAMI, Mayu; OKAMOTO, Sentaro; YAMADA, Takeshi; IBE, Kouta
- 3PC-002[#]** Synthesis and Vitamin D Receptor Affinity of 16-Oxa VitaminD₃ Derivatives - 2 (Grad. Sch. Eng., Kanagawa Univ.) ○IBE, Kouta; OGAMI, Mayu; YAMADA, Takeshi; OKAMOTO, Sentaro
- 3PC-003** Halogenation Involving the Cleavage of the Cyclopropane Ring (Fac. Sci. Tech., SIST) ○NAKAMURA, Riho; NAKAKURA, Kana;

KIRIHARA, Masayuki

- 3PC-004** Oxidation of Trifluoromethylsulfide by Sodium Hypochlorite Pentahydrate (Fac. Sci. Tech., SIST) ○SAKAMOTO, Yugo; SAITO, Katsuya; ADACHI, Kouta; AOSHIMA, Natsuko; KIRIHARA, Masayuki
- 3PC-005[#]** Silica gel-mediated self-aldol reactions possible above boiling points (Sch. Life Dent., The Nippon Dental Univ.) ○TANEMURA, Kiyoshi
- 3PC-006[#]** Lewis acid-promoted C-C bond formation of halostyrenes (Nara Univ. of Educ.; NAIST) YAMAZAKI, Shoko; ○KATAYAMA, Khotaro; MORIMOTO, Tsumoru
- 3PC-007[#]** Synthetic Studies of Polymer Libraries Using Half-esters Obtained by Practical Selective Monohydrolysis Reactions of Symmetric Diesters (Grad. Sch. of Eng., Muroran Inst. of Tech.) ○NIWAYAMA, Satomi; SHI, Jianjun; SHOJI, Wataru
- 3PC-008[#]** Ester aminolysis catalyzed by 2-pyridone derivatives (Grad. Sch. Eng., Kanagawa Univ.) ○SAKAI, Kazuki; YAMADA, Takeshi; OKAMOTO, Sentaro
- 3PC-009** Metallic reductant-free reductive dimerization between electrophilic carbons using a TiO₂ photocatalyst and a Ni catalyst (Grad. Sch. Sci., Nagoya Univ.) ○MIZUNO, Yumiko; MORI, Shogo; AOKI, Takahiro; JUNG, Jieun; SAITO, Susumu
- 3PC-010** Epoxidation of botryococcene by hydrogen peroxide with a tungsten catalyst (Sch. Sci. Eng., Univ. of Tsukuba) ○KURIHARA, Toshihiro; KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 3PC-011[#]** Ir-catalyzed transformation of bio-renewable even-numbered carboxylic acids into odd numbered carbon chain (Sch. Sci., Nagoya Univ.) ○TERAMOTO, Kazuki; YOSHIOKA, Shota; SAITO, Susumu
- 3PC-012[#]** Syntheses of 3-Butenyl or 3-Butynyl 4-Tolyl Sulfones Having Some Iodine Atoms on Their Unsaturated Bonds (Grad. Sch. Eng., Chiba Univ.; Mitsui Chemicals, Inc.) ○TAKAYAMA, Mizuki; TAMURA, Kahori; MATSUMOTO, Shoji; AKAZOME, Motohiro
- 3PC-013** Tandem Umpolung *N*-Alkylation/Nucleophilic Addition Reaction of α -Iminoamide Having a Thiazoline Skeleton (Grad. Sch. Eng., Mie Univ.) SUZUKI, Misato; ○MORI, Nena; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 3PC-014[#]** Cyclopropanation Reaction of Alkenes with α -Iodo- β -ketosulfones (Grad. Sch. Eng., Chiba Univ.; Mitsui Chemicals, Inc.) ○KAMADA, Yusuke; MATSUMOTO, Shoji; AKAZOME, Motohiro
- 3PC-015** Synthesis of Primary Alcohols Using Metal Halide-Catalyzed Reduction of Carboxylic Acids (Fac. Eng., Mie Univ.) FUSAYAMA, Ryo; ○YANG, Siteng; SUMIKURA, Sakiho; MIZOTA, Isao; HACHIYA, Iwao
- 3PC-016[#]** Design of Bifunctional Organocatalysts Based on *trans*-Cyclooctene Frameworks (Grad. Sch. Eng., Kyoto Univ.) ○NAGANO, Tagui; ASANO, Keisuke; MATSUBARA, Seijiro
- 3PC-017** Bromination with gem-dibromide of active methylene compounds (Grad. Sch. Sci. Tech., Yamaguchi Univ.) ○NISHIYAMA, Nanami; WATANABE, Aoi; YAMAMOTO, Hidetoshi
- 3PC-018** Lipase-catalyzed desymmetrization of symmetric 1,5-diacetyl-3-O-silyl protected pentanetriol derivative (Hiroshima Institute of Technology) ○UCHIDA, Yusuke; HIRAGA, Yoshikazu
- 3PC-019[#]** ¹³C NMR Spectroscopic and Computational Studies of Intra- and Intermolecular Interactions of Amino Acid Derivatives in Solutions (Hiroshima Institute of Technology) ○HIRAGA, Yoshikazu; HOSHIDE, Ryosuke; NIWAYAMA, Satomi
- 3PC-020[#]** Asymmetric *N*-Acyl Nitrene Transfer Reaction: Aziridination of Olefins (Grad. Sch. Sci., Kyushu Univ.) ○YOSHITAKE, Masaki; HAYASHI, Hiroki; UCHIDA, Tatsuya
- 3PC-021[#]** Cross-Coupling of Persistent Carbon-Centered Radicals with Azo Compounds (RIKEN CPR; RIKEN CSRS) ○SOHTOME, Yoshihiro; OHNISHI, Rikako; SUGAWARA, Masumi; AKAKABE, Mai; EZAWA, Tetsuya; KOSHINO, Hiroyuki; SODEOKA, Mikiko
- 3PC-022[#]** Structural diversification of chiral compounds containing adjacent stereocenters based on the catalytic [3+2] cycloaddition of *C*-cyanonitrones (RIKEN CSRS; RIKEN CPR; RIKEN CEMS) ○EZAWA, Tetsuya; SOHTOME, Yoshihiro; AKAKABE, Mai; HASHIZUME, Daisuke; KOSHINO, Hiroyuki; SODEOKA, Mikiko
- 3PC-023** transformation of enaminnone to dihaloketone (Fac. Eng., KAIT) YAMAGUCHI, Jun-ichi; ○HOMMA, Tatsuya; HANASE, Tomoya; AKAGI, Yuka; KOIKE, Ryo
- 3PC-024[#]** Chemoselective Ti-Claisen condensations using various ketoester substrates (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ARAKI, Soshiro; KAKUNO, Masatoshi; TANABE, Yoo
- 3PC-025** Synthesis of trialkylsubstituted 2(5H)-furanones utilizing Ti-furanone annulation and its application to single step synthesis of (R)-mintlactone (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○TACHIBANA, Manabu; MORIYAMA, Mizuki; TANABE, Yoo
- 3PC-026** Synthesis and stereostructure-activity relationship of chiral thiazolidin-4-one anti-PAF drug (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○UEURA, Daiki; SASAKI, Ryosuke; KAWAMOTO, Momoyo; TANABE, Yoo
- 3PC-027** Stereoretentive Iron-catalyzed Grignard cross-coupling reaction utilizing (E)-, (Z)-stereodefined enol acetates (Sch. Sci. Tech., Kwansei Gakuin Univ.) ○YAMAGUCHI, Sachiyo; YOSHITAKE, Daisuke; TSUTSUMI, Takeshi; TANABE, Yoo
- 3PC-028** anti-Selective intermolecular radical additions of gem-(alkyl)(bromo) cyclopropanes: Application to asymmetric total synthetic study of (-)-Sirenin

(Sch. Sci. Tech., Kwansei Gakuin Univ.) ○ISHIKAWA, Sekiha;
MORIGUCHI, Kento; TANABE, Yoo

- 3PC-029[#]** Development of Catalytic Umpolung Reaction of α -Iminothioesters (Grad. Sch. Eng., Chiba Univ.) ○KASUYA, Reina; YOSHIDA, Yasushi; MINO, Takashi; SAKAMOTO, Masami
- 3PC-030[#]** Difluorocyclopropanation of dehydroamino acid derivatives (Grad. Sch. Sci. Tech., Gunma Univ.) ○SUGIOMI, Ayari; SUGIISHI, Tsuyuka; KIRIHARA, Masayuki; AMII, Hideki

Organic Chemistry -Reaction and Synthesis- Aromatic Compounds

- 3PC-033[#]** Reactivity of Azulenylpropargylamines with Tetracyanoethylene: Synthesis of Pyrroles, Pentafulvenes, and Pyrropridines via [2 + 2] Cycloaddition Reaction (Fac. Sci., Shinshu Univ.) ○SHOJI, Taku; ARIGA, Yukino; YAMAZAKI, Akari
- 3PC-034[#]** Synthesis and Photophysical Properties of Benzo and Naphthoazulenes (Fac. Sci., Shinshu Univ.) ○YAMAZAKI, Akari; SHOJI, Taku
- 3PC-035[#]** The synthesis and reactivity of azulenopyrimidones and pyrimidines (Fac. Sci., Shinshu Univ.) ○ARIGA, Yukino; SHOJI, Taku
- 3PC-036** Solubilization of nanocarbons using abietic acid derivatives (1) (Sch. Eng., KIT) AKIYOSHI, Yudai; SHIRATORI, Masato; KAWASAKI, Hiroyoshi; ARAKI, Koji; ○TSUGE, Akihiko
- 3PC-037** Solubilization of nanocarbons using abietic acid derivatives (1) (Sch. Eng., KIT) ○KAWASAKI, Hiroyoshi; SHIRATORI, Masato; AKIYOSHI, Yudai; ARAKI, Koji; TSUGE, Akihiko
- 3PC-038** Solubilization of nanocarbons using abietic acid derivatives (3) (Sch. Eng., KIT) SHIRATORI, Masato; KAWASAKI, Hiroyoshi; AKIYOSHI, Yudai; ○ARAKI, Koji; TSUGE, Akihiko
- 3PC-039** Preparation of 3,8-diaryl-*peri*-xanthenoxanthene derivatives and their properties (Mat. Sci. & Chemical Eng., NIT, Nara College) ○MINAMINO, Naoto; YOSHIMURA, Kenichi; KAMEI, Toshiyuki
- 3PC-040** Preparation of PXX oligomers and their properties (Dept. of Chem. Eng., NIT, Nara College) ○YOSHIMURA, Kenichi; MINAMINO, Naoto; KAMEI, Toshiyuki
- 3PC-041** Thermal Isomerization of Nitrile N-Oxide to Isocyanate (Fac. Eng., Toyama Pref. Univ.) ○BANDO, Shiho; KOYAMA, Yasuhito; TAKATA, Toshikazu
- 3PC-042** Synthesis of haloalkylbenzenes using alcohols in the presence of NaHSO₄/SiO₂ (Coll. Sci. Tech., Nihon Univ.) ○MATSUDA, Naoto; HAYAKAWA, Mamiko; AOYAMA, Tadashi; OUCHI, Akihiko
- 3PC-043** Computational Study for the Aromatic Nucleophilic Substitution of 2,4-Bis(trifluoroacetyl)-1-naphthylamines with Amines (Grad. Sch. Eng., Kobe Univ.) ○KONISHI, Mitsuru; OTA, Norio; KAMITORI, Yasuhiro; OKADA, Etsuji
- 3PC-044** Synthesis of arylindanes from ferulic acid and related compounds. (Dept. of Applied Chem. and BioChem., NIT, Wakayama College; Adv. Eng. Fac., NIT, Wakayama College) ○NAKAMOTO, Yuki; BATGEREL, Zolzaya; NOMURA, Eisaku
- 3PC-045** Synthetic Study of Macrocyclic Compounds with Fused Carbazole and Dibenzothiophene Moieties (Grad. Sch. Sci. Tech., Gunma Univ.) ○MURATA, Tomoya; YAMAMOTO, Koji; NAKAMURA, Yosuke
- 3PC-046** The Synthesis of Fullerene-Derivatives under Photoirradiation Conditions (ORIST) ○SUMINO, Shuhei; MATSUMOTO, Fukashi; IWAI, Toshiyuki; ITO, Takatoshi; OHONO, Toshinobu
- 3PC-047** Silver-Catalyzed Ligand Coupling of Diaryliodonium(III) Salts with Trifluoromethoxyphenyl Group (Coll. Pharm. Sci., Ritsumeikan Univ.) ○SAITO, Mina; KOMIYAMA, Keina; KIKUSHIMA, Kotaro; KITA, Yasuyuki; DOHI, Toshifumi
- 3PC-048[#]** Synthesis of Newly Designed Chiral Salicylaldehyde for the Improvement of the Robust Catalysis (Fac. Sci., Kyushu Univ.) ○WATARI, Naoki; HAYASHI, Hiroki; UCHIDA, Tatsuya
- 3PC-049[#]** Synthesis and Properties of Tri(dimethylanthryl)methane (Grad. Sch. Sci., Osaka Univ.) ○KIMURA, Yuuta; KUBO, Takashi

Organic Chemistry -Reaction and Synthesis- High-Throughput Synthesis

- 3PC-051** Selective production of squalene monoepoxides by microflow reaction of squalene and m-chloroperbenzoic acid (Sch. Sci. Eng., Univ. of Tsukuba) ○SHO, Tomoya; KAWASHIMA, Hidehisa; KIJIMA, Masashi
- 3PC-052** Fine Bubble-Mediated Organic Synthesis Using Multi-Stacked Elements Stirrer Blade and Catalyst-Coated Tube Reactors (Grad. Sch. Integrated Sci. and Tech., Shizuoka Univ.) ○KOYAMA, Yumi; SATO, Kohei; NARUMI, Tetsuo; MASE, Nobuyuki
- 3PC-053** *N, N*-Dialkylation and *N, N, C*-Trialkylation of α -Sulfoximino Ester by Umpolung Reaction Using a Flow System (Grad. Sch. Eng., Mie Univ.) OTA, Kazuki; ○IWASE, Taiki; MIZOTA, Isao; SHIMIZU, Makoto; HACHIYA, Iwao
- 3PC-054** Development of Synthetic Methods for Nateglinide as an Active Pharmaceutical Ingredient Using Flow Fine Synthesis (Grad. Sch. Eng., Mie Univ.; Grad. Sch. Sci., The Univ. of Tokyo) ○UEMURA, Kento; KIKUCHI, Hirofumi; HARA, Masaya; HACHIYA, Iwao; MIYAMURA, Hiroyuki
- 3PC-055** Continuous Flow Synthesis of PCBM in Aqueous Two-Phase

System (ORIST) ○IWAI, Toshiyuki; SUMINO, Shuhei; MATSUMOTO, Fukashi; ITO, Takatoshi; OHNO, Toshinobu