

Poster Presentations (10:30 ~ 12:00)

(Presentations are given in 45 -minute slots, alternating odd and even numbers)

- P-1** Synthesis of Organic Nitriles from N-Acyl Iminophosphoranes in Organocatalysis
○Yeongmi Park, Jinhwan Park, Jongwoo Son (Department of Chemical Engineering, Dong-A University)
- P-2** A polydiacetylene (PDA)-based sensor integrated into a lateral flow assay platform for on-site monitoring of cyanide anions
○Seongman Lee, Songyi Lee (Department of Chemistry, Pukyong National University)
- P-3** Data-Driven Prediction of HOMO-LUMO Gaps for Synthesizable Small-Molecule OMIECs via Graph Neural Networks
○Hyeonsu Je, Eunhyeon Kim, Byoung-Yong Chang, Yeonjoon Kim (Department of Chemistry, Pukyong National University)
- P-4** Red Circularly Polarized Luminescence from Donor–Acceptor-Type Luminescent Radicals
○Kazuhiro Nakamura, Keiko Yamaoka, Kosuke Anraku, Kenshiro Matsuda, Fumitaka Ishiwari, Takuya Hosokai, Wataru Ota, Emiko Fujiwara, Tohru Sato, Soh Kushida, Ken Albrecht (Interdisciplinary Graduate School of Engineering Sciences (IGSES), Kyushu University, Fukuoka Institute of Health and Environmental Science)
- P-5** Color-Tunable Narrowband Delayed Fluorescence in Peripherally Dendritic Modified Bis-Indolocarbazoles
○Jun Hyeon Lee, Takuma Yasuda (Graduate School of Engineering, Kyushu University)
- P-6** Development of Water-Soluble Fluorescent Dyes Toward Visible-Light-Induced Photochromism in Aqueous Solution
○Shogo Yamasaki, Sunnam Kim, Tsuyoshi Fukaminato (Graduate School of Science and Technology, Kumamoto University)
- P-7** Photoinduced electron transfer reaction sensitized by Ge-*N*-confused porphyrin complex in the presence of metal cations.
○Maika Inoue, Tsutomu Shiragami (Department of Applied Chemistry, Faculty of Engineering, University of Miyazaki)
- P-8** Synthesis of Butadiyne-Linked Cyclic Porphyrin Tetramer
○Kotaro Kimoto, Takanori Iwasaki, Soji Shimizu (Graduate School of Engineering, Kyushu University)
- P-9** Synthesis and Properties of NIR aza-BODIPY Analogues Exhibiting Photothermal Effects
○Yuya Taninokuchi, Takanori Iwasaki, Soji Shimizu (Graduate School of Engineering, Kyushu University)

- P-10** Development of an aza-BODIPY Trimer Exhibiting Optical Properties in the Short-Wave Infrared Region
○Yuna Miyoshi, Takanori Iwasaki, Soji Shimizu (Graduate School of Engineering, Kyushu University)
- P-11** Development of dual excitation luminescence spectroscopy to elucidate emission dynamics of lanthanide doped upconversion nanoparticle
○Kento Tatsui, Kanji Sugioka, Shiori Miyazaki, Ryota Komatsuzaki, Ryusuke Mizoguchi, Ayumi Ishii, Tomohiro Ogawa, Kiyoshi Miyata, Ken Onda (Kyushu University)
- P-12** Development of Fluorescent Photochromic Nanoparticles with High Durability
○Yukina Uemura, Sunnam Kim, Tsuyoshi Fukaminato (Graduate School of Science and Technology, Kumamoto University)
- P-13** Thiazolium-Based Deep Eutectic Solvents Catalysts for the Stetter Reaction
○Shuto Taketsugu, Satoshi Kitaoka, Kaoru Nobuoka (Graduated School of Science and Technology, Oita University)
- P-14** Synthesis and Enhanced Guest-binding Properties of Water-soluble Azaparacyclophane Pentamers
○Hayato Saruwatari, Takaaki Miyazaki, Osamu Hayashida (Graduate School of Science, Fukuoka University)
- P-15** Asymmetric Ring-Opening of Azlactones by Hydrazine nucleophiles via a Negative Catalysis Strategy using Quinine-thiourea bifunctional catalysts
○Yuta Yamaguchi, Sungyong Won, Yasutaka Kawai, Yuki Kono, Masato Ichikawa, Eiji Yamamoto, Takashi Kamachi, Akina Yoshizawa, Akihiro Nakayama, Makoto Tokunaga (Department of Chemistry, Graduate School of Science, Kyushu University)
- P-16** Intermolecular Interactions of AIE Luminogens in Polymer Systems
○Toru Okawara, Sakuta Yoneda, Hiroki Yamada, Mohamad Alif Akashah Bin Mohamed Arbi (Department of Creative Engineering, National Institute of Technology, Kitakyushu College)
- P-17** Effect of film surface topography on orientational order and distribution profile of rod-shaped molecules
○Sasuke Sugino, Ryo Akiyama (Department of Chemistry, Kyushu University)
- P-18** Chiral Switching of Fluorescent Diarylethenes
○Noa Shimada, Sunnam Kim, Tsuyoshi Fukaminato (Department of Applied Chemistry & Biochemistry, Kumamoto University)

- P-19** Utilizing Elemental Sulfur and Molecular Hydrogen Combination: Cobalt Silicate-Catalyzed Thiol Synthesis from Alkenes and Carbonyl Compounds
○Eiji Yamamoto, Weixin Qi, Xu Ke, Akina Yoshizawa, Akihiro Nakayama, Hironobu Matsueda, Haruno Murayama, Makoto Tokunaga (Department of Chemistry, Graduate School of Science, Kyushu University)
- P-20** Synthesis and Solid-state NIR Luminescence of Diphenyldipyrroethene
○Saki Nakano, Toru Okawara, Ayaka Fujioka, Toshikazu Ono, Shigenori Matushima (Department of Creative Engineering, National Institute of Technology, Kitakyushu College)
- P-21** Controlling Solid-State Photon Upconversion Efficiency through Strategic Steric Hindrance
○ Hayato Shoyama, Naoyuki Harada, Nutnicha Boonmong, Kiichi Mizukami, Yuya Watanabe, Pei Zhao, Masahiro Ehara, Yoichi Sasaki, Nobuo Kimizuka (Graduate School of Engineering, Kyushu University)
- P-22** Low-threshold photon upconversion in anthracene derivatives with bulky substituents
○Masaki Miyata, Kodai Matsumoto, Kiichi Mizukami, Shigenori Fujikawa, Yoichi Sasaki, Nobuo Kimizuka (Graduate School of Engineering, Kyushu University)
- P-23** Electrochemical Dechlorination of Poly(Vinyl Chloride) for the Synthesis of Cyclic Acetals
Sebastian Becker, ○Dominik Wördehoff, Dominik Weis, Simon Horsinka, Siegfried Waldvogel, Pol Besenius (Johannes Gutenberg University Mainz)
- P-24** Extension of a Laser Ablation Time-of-Flight Mass Spectrometer for Thorium Molecular Ion Analysis
○Jean Velten, Ch. E. Düllmann, J. Stricker, D. Renisch, V. Andriushkov, D. Budker, F. Schmidt-Kaler, L. von der Wense (Johannes Gutenberg University Mainz)
- P-25** Reaction Optimization of a Thiomolybdate Cluster for the Light-driven Hydrogen Evolution Reaction
S. Henriette Kolbinger, ○Laura Haxha, P. Charlotte Schröder, Daniel Kowalczyk, Dirk Ziegenbalg, Carsten Streb (Johannes Gutenberg-University)
- P-26** FeSe₂@GC Derived from Fe-MIL-88B as an Anode Material with Enhanced Electrochemical Performance for Potassium-Ion Batteries
○Boram Yun, Jongsik Kim (Department of Chemistry, Dong-A University, Department of Chemical Engineering, Dong-A University)
- P-27** Surface Charge Modulation of Ionic Dye Degradation on Gold Nanoparticles
○You Hee Seo, Hyojin An, Seunghoon Lee (Department of Chemistry, Dong-A University)
- P-28** Illuminating Polyethylene Degradation through Real-Time Plasmonic Kinetics with In Situ SERS
○Junyeong Yang, Minchu Kang, Seunghoon LEE (Department of Chemical Engineering, Dong-A University)

- P-29** Halogen Ratio Determination in CsPbBr_(3-x)I_x Perovskite Quantum Dots Using Infinite Quantum Well Model
○Jaeseong Heo, Hyewon Kim, Jiyeong Park, Nurwarrohman Andre Sasongko, Jaehun Kim, Yeonjoon Kim, Myeongkee Park (Department of Chemistry, Pukyong National University)
- P-30** Improving the Environmental Stability of CsPbBr₃ Quantum Dots Using Polymer Composite Fibers
○Taeji Seo, Jaeseong Heo, Nurwarrohman Andre Sasongko, Jio Kang, Myeongkee Park (Department of Chemistry, Pukyong National University)
- P-31** Strategies to increase catalytic efficiency of manganese-catalysed aerobic oxidation of 5-hydroxymethylfurfural
○Hyejin Yu, Hyun Sung Kim (Department of Chemistry, Pukyong National University)
- P-32** Gold Nanoparticle-Mediated Electron Transfer From Ammonia-Borane to Ru(NH₃)₆³⁺ For Highly-Sensitive Biosensing
Seonhwa Park, ○Seongjin Park, Haesik Yang (Department of Chemistry, Pusan National University)
- P-33** A Cobalt Hydroxide Manufacturing System and a Cobalt Oxide-Based Catalyst Synthesis Method
○Dongwon Kim, Ki Min Nam (Department of Chemistry and Chemical Institute for Functional Materials, Pusan National University)
- P-34** Interlayer Expansion of Kinetically Grown Molybdenum Oxide for Mg Batteries with Enhanced Energy Density
Sri Charan Reddy, ○Hyun Bae Jeon, Hyun Deog Yoo (Department of Chemistry and Institute for Future Earth, Pusan National University)
- P-35** High-Nickel Cathodes with Mechanical and Interfacial Stability via Tailored Concentration Gradients for Stable Li-Ion Batteries
○Sangram Keshari Mohanty, Hyun Deog Yoo (Department of Chemistry and Chemical Institute for Functional Materials, Pusan National University)
- P-36** Crystal Structure and Dielectric Properties of Tetragonal Tungsten Bronze-related Compounds
○Seiya Kumazawa, Jian Wang, Katsuro Hayashi, Hirofumi Akamatsu (Graduate School of Engineering, Kyushu University)
- P-37** Structural Instability in Cation-Ordered Rocksalt Sulfides RAgS₂ (R: rare earth): A first-principles study
○Masato Fukada, Jian Wang, Katsuro Hayashi, Hirofumi Akamatsu (Graduate School of Engineering, Kyushu University)

- P-38** Glass-ceramic synthesis of NASICON-type $\text{Na}_{3+x}\text{V}_2(\text{SiO}_4)_x(\text{PO}_4)_{3-x}$ electrode
○Shota Takaji, Jian Wang, Hirofumi Akamatsu, Katsuro Hayashi (Graduate School of Engineering, Kyushu University)
- P-39** Interfacial Properties of $\text{Na}_3\text{Zr}_2(\text{SiO}_4)_2(\text{PO}_4)$ with Sodium Borate Addition
○Shoki Tsubaki, Jian Wang, Hirofumi Akamatsu, Katsuro Hayashi (Graduate School of Engineering, Kyushu University)
- P-40** Effective interactions between two small anions in an electrolyte aqueous solution
○Shoma Nagatomo, Ryo Akiyama (Department of Chemistry, Kyushu University)
- P-41** Solid Electrolyte-Type Gas Sensor with MOF-Based Electrode Catalysts For Selective Gas Detection
○Mana Yamaguchi, Sohail Ahmad, Yusuke Inomata, Tetsuya Kida (Graduate School of Science and Technology, Kumamoto University)
- P-42** Electrochemical Deuteration of Amines using a Graphene Oxide Membrane Reactor
○Ami Takase, Sohail Muhammad Ahmad, Yusuke Inomata, Tetsuya Kida (Graduate school of Science and Technology, Kumamoto University)
- P-43** Development of Gold-Selective Deep Eutectic Solvents and Creation of Gold Nanoparticles
○Taichi Kamada, Mayu Kamisono, Rie Wakabayashi, Masahiro Goto (Department of Applied Chemistry, School of Engineering, Kyushu University)
- P-44** Lucknolide A as a Selective VEGFR2 Inhibitor with Potent Anti-Angiogenic Activity
○Min Hee Jo, Jae Hyeop Lee, Hyeon Hak Gwon, Min kyu Jo, Sun Joo Park (Department of Chemistry, Pukyong National University)
- P-45** Boosting Type-I ROS in Hypoxic Tumors through Polysulfide-Activated Photoredox Cycling
○Subin Park, Minseok Yoo, Songyi Lee (Industry 4.0 Convergence Bionics Engineering, Pukyong National University)
- P-46** Targeting the Internal Ribosome Entry Site of XIAP mRNA with Peptide Nucleic Acids (PNAs)
○Hyein Jung, Yeong Ju Lee (Department of Chemistry, Pusan National University)
- P-47** A Simplified Synthetic Strategy for β -Sheet Peptide Mimetics Targeting Functional RNA Motifs
○Chaeun Shin, Yeongju Lee (Department of Chemistry, Pusan National University)
- P-48** Application of Low-Field NMR for the Screening of Ephedrine and Methamphetamine in Processed Food Matrices
○Soyoung Park, Suhkmann Kim (Department of Chemistry, Pusan National University)

- P-49** Surface Protein-Mediated Endolysin Display on *Lactocaseibacillus paracasei*-derived Extracellular for Targeting *Staphylococcus aureus*
○Sohyeon Park, Kwang-sun Kim (Department of Chemistry, Pusan National University)
- P-50** Structure-Based GNN Prediction of 5-HT_{2A} Signaling Bias
○Jungon Park, Yeonjoon Kim (Department of Chemistry, Pukyong National University)
- P-51** Development of silk anti-adhesion film
○Masaya Harada, Makoto Sasaki, Wei Xu, Yusuke Kambe, Tsunenori Kameda, Shoji Nagaoka, Takuro Niidome (Graduate School of Advanced Science and Technology, Kumamoto University)
- P-52** Synthesis of Molecularly Imprinted Hyperbranched Polymer for Improved Drug Loading Ratio
○Yuki Sumiyoshi, Sunnam Kim, Tsuyoshi Fukaminato (Graduate School of Science and Technology, Kumamoto University)
- P-53** Development of Hydrazone-Linked Hyperbranched Polymers for Targeted Cancer Therapy
○Ryota Kokubu, Sunnam Kim, Tsuyoshi Fukaminato (Graduate School of Science and Technology, Kumamoto University)
- P-54** Influence of alpha-position stereochemistry of (4-pentenyl)alanine on hydrocarbon-stapling of peptides at the C-terminus
○Wenqing Xu, Atsushi Ueda, Sana Kakazu, Akihiro Iyoshi, Masakazu Tanaka (Graduate School of Biomedical Sciences, Nagasaki University)
- P-55** Effects of a novel mitochondria-activating prodrug on cells and *C. elegans*
○Haruto Maeda, Takahisa Anada, Michiharu Kawahara, Ryotaro Kuroda, Masaru Tanaka (Department of Applied Chemistry, Graduate School of Engineering, Kyushu University)
- P-56** Chemoenzymatic site-specific conjugation of a native IgG Fab with functional molecules
○Eva Agustriana, Koki Murozono, Riko Nishioka, Yoshirou Kawaguchi, Michio Kimura, Noriho Kamiya (Department of Applied Chemistry, Graduate School of Engineering, Kyushu University)
- P-57** Creation of transdermal peptide cancer vaccine utilizing deep eutectic solvent
○Naoaki Fujita, Keisuke Tanaka, Yoshirou Kawaguchi, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)
- P-58** Identification of CD207-Targeting Peptides for a Novel Transdermal Antigen Delivery
○Mina Yokoyama, Yoshirou Kawaguchi, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)

- P-59** Overcoming Asymmetry Problems in Multiscale Methods with Integrated Molecular Models for Solvents
○Takuma Ikeda, Hiroshi Watanabe, Haruyuki Nakano (Department of Chemistry, Graduate School of Science, Kyushu University)
- P-60** Development of a transdermal delivery system for artificial antibodies utilizing ionic liquids
○ Ibuki Yokomae, Kiyohiro Toyofuku, Keisuke Tanaka, Yoshirou Kawaguchi, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)
- P-61** Derivatization and structural analysis of the rare sugar D-tagatopyranose
Yiming Hu, Akihiro Iyoshi, Yui Makura, Masakazu Tanaka, ○Atsushi Ueda (Graduate School of Biomedical Sciences, Nagasaki University)
- P-62** Transdermal delivery behavior of mRNA using ionic liquids
○Masaya Sakaguchi, Keisuke Tanaka, Yoshirou Kawaguchi, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)
- P-63** Site-Specific Chemical Modification of Peptides Using Plastic Antibody
○Yuto Tanaka, Sotaro Tsuji, Yu Hoshino (Graduate school of Engineering, Kyushu University)
- P-64** Antitumor activity of polysulfide compounds against malignant lymphomas
○Akito Tsuyama, Wei Xu, Tomohiro Sawa, Takuro Niidome (Faculty of Advanced Science and Technology, Kumamoto University)
- P-65** Development of transdermal delivery system for nucleic acid drugs using cholesterol-derived ionic liquids
○Daiki Akashi, Kiyohiro Toyofuku, Keisuke Tanaka, Yoshirou Kawaguchi, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)
- P-66** Insertion of single lysine to peptide amphiphiles to control the surface charge and enzymatic reaction of self-assembled adjuvants
○Yuzu Tomeba, Rie Wakabayashi, Noriho Kamiya, Masahiro Goto (Graduate School of Engineering, Kyushu University)
- P-67** Molecular Docking Simulation of bisphenol derivatives as novel androgen receptor antagonists
○Kota Aramaki, Takeru Kajiyama, Kohei Kanazaki, Ayami Matsushima (Department of Chemistry, Graduate School of Science, Kyushu University)

- P-68** Flavor Improvement of Japanese Sake Using Gold Nanoparticles on Food-Grade Supports
○Haruki Ando, Ruka Wajima, Atsuko Isogai, Haruno Murayama, Akina Yoshizawa, Eiji Yamamoto, Akihiro Nakayama, Makoto Tokunaga (Graduate School of Science, Kyushu University)
- P-69** Molecular Dynamics Simulations of the Mechanosensitive Channel MSL10 Involved in Plant Defense Responses
○Taiyo Moriyama, Hiroshi Watanabe (Department of Chemistry, Graduate School of Science, Kyushu University)
- P-70** Feature Selection Over Model Complexity in Heat of Combustion Prediction
○JaeHun Kim, Yeonjoon Kim (Department of Chemistry, Pukyong National University)