

Asian-Oceanian and Japanese Photochemistry Anniversary Symposium

– Poster Session –

Kobe International Conference Center, 3rd Floor

Monday, September 7, 2026, 12:15–13:45

【Presentation times】 Odd-numbered posters: 12:15–13:00

Even-numbered posters: 13:00–13:45

[001] Multifunctional Photocleavable Molecules for Photoresponsive Chemical Biology Tools

○Tomoko Inose^{1,2}, Ryuto Sasayama², Yusuke Nakasone², Masahiko Yoshimura² (1.RIKEN, 2.Kyoto Univ.)

[002] Nanostructures and Optical Properties of Gold Nanoparticles in the Hollow Cavity of Niobate Nanoscrolls

○Hinata Aoshima¹, Tsutomu Shiragami¹, Yu Nabetani¹ (1.Univ. of Miyazaki)

[003] A Photo-Hydrogen-Evolving Molecular Device (PHEMD) Based on a C60-Terpyridine-Pt(II) Complex

○Huong Trinh Thi Mai¹, Thi Linh Pham¹, Katsuhiro Tanaka¹, Yutaka Takaguchi¹ (1.Grad. Sch. of Sci. and Eng., Univ. of Toyama)

[004] Persulfate-Driven Photocatalytic Oxygen Evolution by an Anthracene-Linked Ru(II) Terpyridine Complex

○Jofi Satrio Purnomo¹, Thi Linh Pham¹, Katsuhiro Tanaka¹, Yutaka Takaguchi¹ (1.Grad. Sch. of Sci. and Eng., Univ. of Toyama)

[005] Red-to-NIR Light Harvesting for Overall Water Splitting Using Iodide-Mediated SWCNT/WO₃ Z-Scheme Photocatalysts

○Thi Linh Pham¹, Yutaka Takaguchi¹ (1.Grad. Sch. of Sci., and Technology, Univ. of Toyama)

[006] Solvatofluorochromic Behavior of Naphthalene-Based π -Conjugated Compounds Governed by Intramolecular Charge Transfer

○Hiroshi Takashima¹, Yui Manabe¹, Shoko Yamazaki² (1.Nara Women's Univ., 2.Nara Univ. of Education)

[007] Construction of 2D/0D van der Waals Heterojunction Interfaces by Surface Modification of Molybdenum Disulfide with Pyrene Derivatives and Their Photophysical Properties

○Sana Arshad¹, Jofi Satrio Purnomo¹, Katsuhiro Tanaka¹, Yutaka Takaguchi¹ (1.Grad. Sch. of Sci. and Eng., Univ. of Toyama)

[008] Photoluminescence Enhancement of Ag₂₉ Nanocluster in Aqueous Media via Ligand Engineering

and Aggregate Formation

○Atsuya Tanaka¹, Kazuya Yamano¹, Hayato Sakai², Rika Tanaka³, Katsuya Mutoh¹, Taku Hasobe², Takuya Nakashima¹ (1.Grad. Sch. of Sci., Osaka Metro. Univ., 2.Fac. of Sci. and Tech., Keio Univ., 3.X-ray Crystal Analysis Laboratory, Grad. Sch. of Sci., Osaka Metro. Univ.)

[009] Control of Scattering Colors of Mie-Resonant Silicon Nanoparticles by Nanoparticle on Mirror Geometry

○Takeru Kambayashi¹, Jialu Song¹, Oanh Vu¹, Keisuke Moriasa¹, Hiroshi Sugimoto¹, Minoru Fujii¹ (1.Kobe Univ.)

[010] Dynamic Multicolor Luminescence of Trivalent Lanthanide Complexes under Corona Discharge

○Kota Inage¹, Kaito Suzuki¹, Yuichi Hirai², Mengfei Wang^{3,4}, Yasuchika Hasegawa^{3,4}, Masaki Yoshida⁵, Takayuki Nakanishi², Yuichi Kitagawa^{3,4} (1.Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2.NIMS, 3.Fac. of Eng., Hokkaido Univ., 4.WPI-ICReDD, Hokkaido Univ., 5.Grad. Sch. of Sci., The Univ. of Osaka)

[011] Dynamic Molecular Triplet Excitons Induce Multi-Color Emission during Photo-Charging and Afterglow Processes

○Serika Tasaki¹, Takuma Nakai¹, Mengfei Wang^{2,3}, Yasuchika Hasegawa^{2,3}, Takayuki Nakanishi⁴, Yuichi Kitagawa^{2,3} (1.Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2.WPI-ICReDD, Hokkaido Univ., 3.Fac. of Eng., Hokkaido Univ., 4.NIMS)

[012] Synthesis and Photochromic Properties of Heteroaryl-Imidazoisindole Derivatives

○Masato Uto¹, Taichi Muto¹, Rui Yamamoto¹, Suguru Higashida², Tuyoshi Kawai¹ (1.NAIST, 2.Osaka Metro. Univ. College of Tech.)

[013] Chiral Photomechanical Behavior of the Hybrid Fibers of Photochromic and Chiral Molecular Glasses

Daiki Arata¹, Yen Fu Teoh¹, ○Hideyuki Nakano¹ (1.Muroran Inst. Tech.)

[014] Photochromism of Bis(acenaphthyl)ethene via Higher Excited States

○Ryuta Imai¹, Hikaru Sotome², Olivier Galangau³, Tsuyoshi Kawai¹ (1.NAIST, 2.Osaka Univ., 3.Univ. of Rennes)

[015] Fragment-Based Exploration of Methine-Bridged Dyes

○Rei Amano¹, Shohei Saito¹, Kensuke Suga¹ (1.The Univ. of Osaka)

[016] Cavity Coupling for the Enhanced Electrochemical Reaction

○Tomohiro Fukushima^{1,2} Masaki Itatani¹ Kei Murakoshi¹ (1.Hokkaido Univ. 2.JST-PRESTO)

[017] Synthesis of Noble Metal High-Entropy Alloy Nanoparticles via Near-Infrared Femtosecond Laser-Induced Reduction in Aerated Water

Keito Iwamoto¹, Chihiro Mizuta¹, Masatsugu Ishimoto¹, Kenji Sakota¹, ○Tomoyuki Yatsuhashi¹ (1.Osaka Metro. Univ.)

[018] Synthesis, Characterization, and Photochromic Behavior of a Terarylene-Based Dyad with Long Alkyl Chains

○Saeko Kitamine^{1,2}, Chigusa Goto², Marine Louis³, Tsumoru Morimoto², Shiki Yagai⁴, Guillaume Laurent¹, Rémi Métivier¹, Keitaro Nakatani¹, Tsuyoshi Kawai²

(1. ENS Paris-Saclay, PPSM, CNRS, 2.MS, NAIST, 3.Division of Appl. Chem., Inst. of Eng., Tokyo Univ. of Agri. and Tech., 4.IAAR, Grad. Sch. of Eng., Chiba Univ.)

[019] Photophysical and Alignment-Controlled Chiroptical Properties of Thermally Activated Delayed Fluorescence Emitters in Chiral Nematic Liquid Crystal

○Nurul Ilmi¹, Yuki Yamashita¹, Yugo Tsuji¹, Chigusa Goto¹, Yo Shimizu^{1,2}, Tsuyoshi Kawai¹, Marine Louis³ (1.NAIST, 2.Shinshu Univ., 3.Tokyo Univ. of Agri. and Tech.)

[020] Magnetic-Field-Controlled Mpemba Effect in Triplet Fusion Systems

○Kazuhiko Seki (AIST)

[021] Effect of π -Conjugation on the Excited-State Intermolecular Proton Transfer Reaction of Aromatic Urea Derivatives

○Hana Kanamori¹, Yoshinobu Nishimura¹ (1.Univ. of Tsukuba)

[022] Photomelting Supramolecular Gels That Exhibit Excited-State Aromaticity

○Masanari Fujiwara¹, Hidekatsu Kitakado², Yuhke Ling², Shohei Saito¹ (1.The Univ. of Osaka, 2.Kyoto Univ.)

[023] Synthesis and Photoreactivity of 1,4-Naphthoquinone-Based Photoacid and Photobase Generators

○Wakana Mizuyama¹, Hitomi Betsumiya¹, Tsumoru Morimoto¹, Tsuyoshi Kawai¹ (1.NAIST)

[024] Europium Complexes in Aqueous Media: From Cancer Diagnostics to Metal-Ion Sensing

○Mengfei Wang^{1,3}, Masaya Kono², Yusaku Yamaguchi², Taichi Inoshita², Toranosuke Tomikawa², Jahidul Islam³, Sunao Shoji⁸, Yuichi Kitagawa^{1,3}, Koji Fushimi³, Sora Watanabe⁴, Go Matsuba⁴, Akihisa Yamamoto⁵, Motomu Tanaka^{5,6}, Masumi Tsuda^{1,7}, Shinya Tanaka^{1,7}, Yasuchika Hasegawa^{1,3} (1.WPI-ICReDD, Hokkaido Univ., 2.Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 3.Fac. of Eng., Hokkaido Univ., 4.Grad. Sch. of Organic Mater. Eng., Yamagata Univ., 5. Inst. for Advanced Study, Kyoto Univ., 6. Inst. of Phys. Chem., Heidelberg Univ., 7. Fac. of Medi., Hokkaido Univ., 8.Fac. of Eng., Nara Women's Univ.)

[025] A Novel Radical-Dissociation-Type Photochromic Molecule without an Imidazole Moiety

○ Daisuke Tanaka¹, Marek-Urban Paulina¹, Shunsuke Kobashi¹, Yuki Nagai¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[026] Hot-Electron Defluorination of Perfluoroalkyl Substances through Protective ZnS Shells on CdS Nanocrystals

○Kohki Tanaka¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[027] Promotion of Excited-State Intermolecular Proton Transfer in Phenanthroline-Urea Compounds

○Yoshinobu, Nishimura¹, Yu Hirashima¹, Toru Matsui¹ (1.Univ. of Tsukuba)

[028] Negative Photochromic Behavior of Pyridyl-Bridged Macrocyclic Biphotochromic Molecules

○Kaede Mitsuhashi¹, Takumi Aizawa¹, Jiro Abe¹ (1.Aoyama Gakuin Univ.)

[029] Cooling-Induced Acceleration of Thermal Isomerization of a Fluoroazobenzene Derivative through Temperature-Controlled Catalyst Concentration

○Mizuki Nagano¹, Yuki Nagai¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[030] A Biphotochromic Molecule for Stepwise Two-Photon Photochromism Triggered by NIR and Visible Light

○Yuma Ichikawa¹, Takumi Aizawa¹, Jiro Abe¹ (1.Aoyama Gakuin Univ.)

[031] Dynamic Control of Reflection Color in Chiral Nematic Liquid Crystals with a Negative Photochromic Dopant

○Hayato Sato¹, Takumi Aizawa¹, Jiro Abe¹ (1.Aoyama Gakuin Univ.)

[032] Role of Intramolecular Charge Transfer in Excited-State Intermolecular Proton Transfer of Fluorescent Aromatic Ureas in Various Solvents

○Ko, Iihama¹, Kohei Fuchibe², Arata Yamagiwa², Hideki Okamoto³, Yoshinobu Nishimura¹ (1.Univ. of Tsukuba, 2.Toyo Univ., 3.Okayama Univ.)

[033] Photodecomposition of Perfluoroalkyl Substances by ZnSe Nanocrystals

○Hikari Kitamura¹, Yuto Toyota¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[034] Tuning Photochromic Reaction of Copper-Doped ZnS Nanocrystals via Surface Modification with Carboxylic Acids

○Hina Yamamoto¹, Shunsuke Kobashi¹, Tamami Sato¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[035] Photocatalytic Post Treatment of Carbon Nitride Powders to Create Negatively Charged Surface

○Kazuki Miyata¹, Yasuhiro Shiraishi¹, Takayuki Hirai¹ (1.The Univ. of Osaka)

[036] Photoinduced Adsorption of Spiropyran-Functionalized CdSe/ZnS QDs onto Mesoporous Silica

○Sho Okamoto¹, Tetsuo Yamaguchi¹, Sadahiro Masuo¹ (1.Grad. Sch. of Sci. and Eng., Kwansei Gakuin

Univ.)

[037] Construction of Quantum Dot Assemblies via Photodimerization of an Anthracene Derivative

○Yuki Fujiwara¹, Tetsuo Yamaguchi¹, Sadahiro Masuo¹ (1.Grad. Sch. of Sci. and Eng., Kwansei Gakuin Univ.)

[038] Energy Transfer from Multiple Excitons in a Perovskite Nanocrystal to Perylene Bisimide

○Kotone Takahashi¹, Tetsuo Yamaguchi¹, Sadahiro Masuo¹ (1.Grad. Sch. of Sci. and Eng., Kwansei Gakuin Univ.)

[039] Fabrication of Perovskite Nanorods via Alignment and Fusion of Nanocrystals

○Shota Yamamoto¹, Tetsuo Yamaguchi¹, and Sadahiro Masuo¹ (1.Grad. Sch. of Sci. and Eng., Kwansei Gakuin Univ.)

[040] Excited-State Dynamics of AgGaS Quantum Dots

○Ruixin Peng¹, Yuto Toyota¹, Kanato Nagai¹, Yuki Nagai¹, Rismaningsih Nurmanita², Tsukasa Torimoto², Yoichi Kobayashi¹ (1.Ritsumeikan Univ., 2.Nagoya Univ.)

[041] Light-Triggered Polymerization Catalysis via Photoinduced Ion-Pair Formation in Terarylene Photoswitches

○Taichi Muto^{1,2}, Kaho Irie¹, Chigusa Goto¹, Kei Maruyama¹, Fumina Tsutsui¹, Yoshiko Nishikawa¹, Tsuyoshi Ando¹, Tsumoru Morimoto¹, Tsuyoshi Kawai^{1,2} (1.NAIST, 2.Universit  de Toulouse)

[042] Photoinduced Migration of Photochromic Spiropyran and Spiropyran-Functionalized Quantum Dots

○Tetsuo Yamaguchi¹ Sadahiro Masuo¹ (1.Kwansei Gakuin Univ.)

[043] Effects of Aryl Substituents on the Optical and Chiroptical Properties of Carbazole-containing [5]Helicenes

○Sayami Matsumoto¹, Zhe Wang², Tadashi Mori² (1.Grad. Sch. of Eng., The Univ. of Osaka; 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[044] A Luminescent Thiocyanate Ce³⁺ Complex and its Ionic Liquids

○Toshifumi Iimori (Muroran Tech.)

[045] Elucidation of the Oxygenation Mechanism in Firefly Bioluminescence

○Chisato Yasuzawa¹, Nobuo Kitada², Shojiro Maki^{1,2}, Takashi Hirano¹ (1.The Univ. of Electro-Comm., 2.Env. Saf. San. Mgmt., Ctr., UEC)

[046] Magneto-Optical Studies on the Orbital Angular Momenta and Spin-Orbit Coupling in the Excited Triplet States of Octahedral Mo₆ Clusters: Magnetic Circular Dichroism and Magnetic Circularly Polarized

Luminescence

○Hirohisa Yanagikawa¹ Toranosuke Tomikawa² Yuichi Kitagawa² Yasuchika Hasegawa² Kaplan Kirakci³, Kamil Lang³ Kazuyuki Ishii¹ (1.IIS, The Univ. of Tokyo, 2.Fac. of Eng., Hokkaido Univ., 3.Inst. of Inorganic Chem. of the ASCR)

[047] Organic Vapor-Induced Microscopic Behaviors in Molecular Crystals

○Xiao Ma¹, Kyoko Enomoto¹, Yuki Matsuda², Masaaki Abe², Kazuyuki Ishii¹ (1.IIS, The Univ. of Tokyo, 2.Grad. Sch. of Sci., Univ. of Hyogo)

[048] Adsorption Behavior of Anionic Porphyrins on LDHs with Different Charge Densities

○Ai Hosaka¹, Yoshinori Tahara¹, Takuya Fujimura², Tetsuya Shimada¹, Yohei Ishida¹, Tamao Ishida^{3,4}, Shinsuke Takagi⁵ (1.Grad. Sch. of Urb. Env. Sci., Tokyo Metro. Univ., 2.Shimane Univ. 3.Osaka Metro. Univ., 4.ReCAP, Osaka Metro. Univ., 5.ReHES, Tokyo Metro. Univ.)

[049] Investigation of the Adsorption States and Photochemical Behavior of a Dicationic Bipyridine Derivative on Clay Nanosheets

○Honoka Hirose¹, Tetsuya Shimada¹, Yohei Ishida¹, Shinsuke Takagi¹ (1.Tokyo Metro. Univ.)

[050] Dominance of Structural Kinetics in Plasmon-Assisted Optical Crystallization of Metastable Sodium Bromate

○Chia-Chi Chang¹, Henryk Witek¹, Ryusei Oketani², Teruki Sugiyama^{1,3} (1.Dept of Appl. Chem. and CEFMS, NYCU, 2.Grad. Sch. of Eng. Science, The Univ. of Osaka, 3.MS, NAIST)

[051] Development of a Near-Infrared Photoreaction with Modification of Photofunctionality

○Akihiro Matsuzaki¹, Taniyuki Furuyama¹ (1.Univ. of Hyogo)

[052] Liquid-Liquid Phase Separation by DEACM-Caged Coacervating Peptides and Cellular Internalization

○Muhammad Iqbal¹, Akinari Bando¹, Mizuki Kitamatsu², Yuuki Kanazaki², Rika Tojo², Kazunori Watanabe¹, Takashi Ohtsuki¹ (1.Dept. of Interdiscip. Sci. and Eng. in Health Systems, Okayama Univ., 2.Dept. of Appl. Chem., Kindai Univ.)

[053] Development of Transition Metal Complexes Bearing a Diaminoisoindigo Ligand

○Shota Yamamoto¹, Taniyuki Furuyama¹ (1.Univ. of Hyogo)

[054] Investigation of Solvent-Dependent Luminescence Properties of Chiral 7-Diethylaminocoumarin Derivatives Based on Intramolecular Charge Transfer

○Mizuki Maruyama¹, Hiroshi Takashima¹, Yoshitane Imai², Honoka Akiyama², Shoko Yamazaki³, Eiji Nakata⁴ (1.Nara Women's Univ., 2.Grad. Sch. Sci. Eng., Kindai Univ., 3.Nara Univ. of Educ., 4.Kyoto Univ.)

[055] Synthesis of Near-Infrared Low-Symmetry Phthalocyanines toward Applications in Biochemical Materials

○Yuuki Moriguchi¹, Taniyuki Furuyama¹ (1.Univ. of Hyogo)

[056] Mathematical Modeling of Diameter Transition in Highly Concentrated Polydisperse Nanoparticle Solutions Using Stepwise Centrifugal Classification

○Koyama Natsuki¹, Oku Takeo², Akiyama Tsuyoshi² (1.Grad. Sch. Eng. Univ. of Shiga Pref., 2.Sch. Eng. Univ. of Shiga Pref.)

[057] Synthesis and 10 π -Photocromic Properties of Dimethyl Imidazoisindole Aryl-Ethene

○Rui Yamamoto¹, Taichi Muto^{1,2}, Uto masato¹, Tsumoru Morimoto¹, Tsuyoshi Kawai^{1,2} (1.NAIST, 2.Universit  de Toulouse)

[058] The Development of Ultrafast Broadband Chiroptical Spectroscopy

○Soumen Ghosh¹, Aastha Razshree¹, Bikram Pal¹, Soumen Ghosh¹ (1.Dept. of Inorg. and Phys. Chem., Indian Inst. of Sci.)

[059] Unveiling the Role of Sulfur in Photochemical Bond Cleavage of 7-(Diethylamino)coumarin-4-yl)methyl (DEACM) Acetate Derivatives using Ultrafast Spectroscopy and Low-Temp IR Matrix

○Sunando Santra¹, Yukihide Ishibashi², Francisco A. Martins², Judy I. Wu², and Manabu Abe¹ (1.Hiroshima Univ., 2.Ehime Univ., 2.Univ. of Houston)

[060] Effect of Trehalose as a Bioprotectant on the Photoexcitation Dynamics of Indigo Carmine

○Riku Tomoyuki¹, Yuki Miyazima¹, Yutaka Nagasawa¹ (1.Ritsumeikan Univ.)

[061] Effects of the Charge Number of Anionic Dyes on the Formation of LDH-Anionic Dye Composites

○Mika Kuribayashi¹, Ai Hosaka¹, Yoshinori Tahara¹, Tetsuya Shimada¹, Yohei Ishida¹, Shinsuke Takagi² (1.Grad. Sch. of Urb. Env. Sci., Tokyo Metro. Univ., 2.ReHES, Tokyo Metro. Univ.)

[062] Control of Circularly Polarized Luminescence Brightness by Intramolecular Excimer Formation in Chiral Bis-Naphthalimide Derivatives

○Sayaka Okuda¹, Hiroshi Takashima¹, Yoshitane Imai², Honoka Akiyama², Shoko Yamazaki³, Eiji Nakata⁴ (1.Nara Women's Univ., 2.Kindai Univ., 3.Nara Univ. of Education, 4.Kyoto Univ.)

[063] Photophysical Properties of PSQ Hybrid Films Containing CuI Complexes and Mechanistic Analysis by DFT Calculations

○Ryoto Inaba¹, Seisuke Inada², Masashi Nakamura¹, Yasunari Kusaka², Seiji Watase¹ (1.ORIST, 2.SEKISUI CHEMICAL CO., LTD.)

[064] Z-Type Coordination of Copper Imidazo[4,5-f][1,10]phenanthroline Complexes to ZnS

Nanocrystals

○Tamami Sato¹, Shunsuke Kobashi¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[065] Luminescence from Biobased-Polyester End-functionalized by Pyrene and Thienophene

○Tomoki Shimizu¹, Shunta Osawa¹, Shunsuke Sato², Daisuke Shimoyama², Motoki Yaginuma¹, Motoko Asano³, Kotohiro Nnomura² (1.Fac. Sci. Tech., Gunma Univ., 2.Fac. Sci., Tokyo Metro. Univ., 3.Sch. Sci. Tech., Gunma Univ.)

[066] Recent Advances in Fluorescence Visualization of Crystallization Dynamics of Organic Fluorescent Molecules during Solvent Evaporation

○Fuyuki Ito¹, Shiho Katsumi¹, Yushi Fujimoto², Shunya Hishiki¹ (1.Shinshu Univ., 2.Kochi Univ. of Tech.)

[067] Correlation between SERS Characteristics and Local Heat Generation in Silver Nanostructures Fabricated by Electrochemical Deposition.

○Koki Tanaka¹, Takeo Oku¹, Tsuyoshi Akiyama¹ (1.Univ. of Shiga Pref.)

[068] Near-Infrared-Driven Solid-State Z-Scheme Photocatalyst for Overall Water Splitting and Carbon Dioxide Reduction Coupled with Water Oxidation

○Hiroshi Irie¹, Jingjing Zhang¹, Masaomi Yoda¹, Toshihiro Takashima¹ (1.Univ. of Yamanashi)

[069] Mechanistic Insights into the Photodegradation of Trityl Radicals

○Amiri Shibata¹, Manabu Abe¹ (1.Hiroshima Univ.)

[070] Unique Photophysical Properties of Cyclic π -Conjugated Molecules Based on COPV

○Hikaru Kimura¹, Pablo Pasqu  s-Gramage², Marcos D  az-Fern  ndez³,   lex Farrando-P  rez², Masaya Kouno¹, Jos   M. Mar  n-Beloqui³, Pedro G. Boj³, Mar  a A. D  az-Garc  a², Juan Casado³, Hayato Tsuji¹ (1.Kanagawa Univ., 2.Alicante Univ., 3.M  laga Univ.)

[071] Excited State Dynamics of Water-Soluble Derivatives of Indigo Carmine with Substituted Amino Groups

○Yuto Nomura¹, Takayuki Murai¹, Riku Tomoyuki¹, Mei Komaki¹, Kotarou Seki¹, Yutaka Nagasawa¹ (1.Ritsumeikan Univ.)

[072] Excitation Wavelength Dependence of Spiropyran Derivatives with Two Photocleavable C-O Bonds

○Kento Takase¹, Yu Matsunaka¹, Yugo Isawa¹, Yuka Higeno¹, Yutaka Nagasawa¹ (1.Ritsumeikan Univ.)

[073] Photophysical Properties of Tridentate Pt(II) Schiff Base Metallofoldamer-Based Polymer Obtained by Radical Polymerization

○Hiroto Achira¹, Masashi Nakamura², Motohiro Shizuma², Seiji Watase² (1. Hyogo pref. Inst. of Tech., 2. ORIST, Morinomiya Ctr.)

[074] Plasmonic and Co-catalytic Enhancement of BiVO₄/TiO₂ Photocatalyst for PEC Hydrogen Evolution

○Mukund Shivajirao Ekunde¹, Pankaj Koinkar¹, Akihiro Furube¹ (1. pLED, Tokushima Univ.)

[075] Spin Manipulation Effect in Photo-deprotection Reaction Using Triplet Ground-State Cation

○Yugo Takara¹; Ma-aya Takano¹; Yukihide Ishibashi²; Ryohei Kishi³; Manabu Abe^{1,4}

(1.Hiroshima Univ.; 2.Ehime Univ.; 3.Osaka Univ.; 4.Hi-P-DDS)

[076] Development of Mixed Electrogenerated Chemiluminescence Cells Using Redox Mediator Molecules

○Itsuki Kurematsu¹, Takashi Kasahara¹ (1.Hosei Univ.)

[077] Visible-Light-Driven Defluorination of Perfluoroalkyl Substances Using Ruthenium-Complex-Sensitized Silver-Loaded Titanium Dioxide

○Yuto Toyota¹, Kakeru Harada², Megumi Okazaki², Kazuhiko Maeda², Yoichi Kobayashi¹ (1.Ritsumeikan Univ., 2.Inst. of Sci. Tokyo)

[078] Unique Z-to-E Thermal Back Reaction Dynamics of Thioindigo Induced by Supramolecular Assemblies

○Kotaro Nakase¹, Sota Fujisaki¹, Yuki Nagai¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[079] Structure–Photophysical Property Relationships of Dithienopyrazinium Dyes and Their Applications in Fluorescence Imaging

○Rina Hashimura¹, Taisei Motoike¹, Keita Andoh¹, Masayasu Taki², Shigehiro Yamaguchi^{1,3,4}, Masahito Murai⁵ (1.Grad. Sch. of Sci., Nagoya Univ., 2.iGCORE, Gifu Univ., 3.ITbM, 4.IRCCS, Nagoya Univ., 5.College of Sci. and Eng., Aoyama Gakuin Univ.)

[080] Fast and Reversible Circularly Polarized Luminescence Switching in Planar-Chirality-Induced Chiral Nematic Liquid Crystals in a DC Electric Field

○Honoka Akiyama¹, Kosuke Kaneko², Shinichi Naya³, and Yoshitane Imai¹ (1.Kindai Univ., 2.Kitasato Univ., 3.Env. Res. Lab., Kindai Univ.)

[081] Pressure Control of Circularly Polarized Luminescence in Chiral Nematic Liquid Crystals

○Haruka Nakajima¹, Yuki Hori¹, Daiya Suzuki¹, Kosuke Kaneko², Yoshitane Imai¹ (1.Kindai Univ., 2.Kitasato Univ.)

[082] Intracellular Delivery of Bystander Molecules by CPP-PS and Light

○Hatice Guven¹, Mizuki Kitamatsu², Kazunori Watanabe¹, Takashi Ohtsuki¹ (1.Okayama Univ., 2.Kindai Univ.)

[083] Photopharmacology through Molecular Photoswitches: π -extended Azoheteroarenes

○P. K. Hashim (Tokyo Metro. Univ.)

[084] Turning up Chirality: Hydrostatic Pressure Boosts Circularly Polarized Luminescence in Europium Complexes

○Ayaka Miyoshi¹, Honoka Akiyama¹, Keisuke Yoshida¹, Hitoha Abe¹, Yoshitane Imai¹ (1.Kindai Univ.)

[085] Enantioselective Photohydrogenation on the Surface of Anatase Titanium Dioxide Photocatalyst: Relationship between Crystal Plane and Chiral Co-Adsorbent

○Shigeru Kohtani¹, Kaori Hanaie¹, Miyabi Asano¹, Akira Kawashima¹, Hideto Miyabe¹ (1.Hyogo Medical Univ.)

[086] Aggregation Number Dependence of Excitation Energy in Clay-Confined J-Aggregates

○Oren Takahashi¹, Taichi Sawasaki¹, Yoshinori Tahara¹, Tatsuhiko Murakami¹, Tetsuya Shimada¹, Yohei Ishida¹, Shinsuke Takagi^{1,2} (1.Grad. Sch. of Urban Env. Sci., Tokyo Metro. Univ., 2.ReHES, Tokyo Metro. Univ.)

[087] Switching of Emission Enhancement Phenomena Utilizing Molecular Adsorption Orientation Control on Clay Nanosheets

○Mei Saegusa¹, Miharuru Eguchi³, Takamasa Tsukamoto⁴, Xinrong Zou¹, Tetsuya Shimada¹, Yohei Ishida¹, Shinsuke Takagi^{1,2} (1.Grad. Sch. of Urb. Env. Sci., Tokyo Metro. Univ., 2.ReHES, Tokyo Metro. Univ., 3.Dept. of Appl. Chem., Waseda Univ., 4.IIS, the Univ. of Tokyo)

[088] Formation of Transient Chelate Complexes of Symmetric and Asymmetric SBP Derivatives

○Yuka Higano¹, Yugo Isawa¹, Kento Takase¹, and Yutaka Nagasawa¹ (1.Grad. Sch. of Life Sci., Ritsumeikan Univ.)

[089] Silicon Nanoparticle-Assisted Optical Trapping for Modulating γ -Cyclodextrin-Mediated Photocyclodimerization

○Yi-Ren Chen¹, Chiao-Hsin Chen¹, Hiroshi Sugimoto², Yoshihisa Inoue³, and Teruki Sugiyama^{1,4} (1.NYCU., 2.Kobe Univ., 3.The Univ. of Osaka, 4.NAIST)

[090] Development of a Hybrid Photocatalyst Composed of a Layered Oxyhalide and a Metal Complex toward CO₂ and Proton Reduction

○Taiga Noda¹, Akinobu Nakada¹, Hajime Suzuki^{1,2}, Osamu Tomita¹, Ryu Abe¹ (1.Grad. Sch. of Eng., Kyoto Univ., 2.PRESTO, JST)

[091] High-Pressure Circularly Polarized Luminescence (HP-CPL) in Bipyrene Luminophore

Haruki Ose¹ Jungo Ono¹ Haruka Sako¹ Mizuki Kitamatsu¹ ○Yoshitane Imai¹ (1.Kindai Univ.)

[092] Chelating-Agent-Assisted Selective Surface Exposure Enhances Visible-Light O₂ Evolution over Layered Oxyhalide Photocatalysts

○Yuuki Iida¹, Hajime Suzuki^{1,2}, Makoto Ogawa^{1,3}, Yusuke Ishii¹, Shunsuke Nozawa⁴, Frank E. Osterloh³, Ryu Abe¹ (1.Kyoto Univ.; 2.JST PRESTO; 3.UC Davis; 4.KEK)

[093] Photoisomerization Dynamics of Pyrrole Hemicyclopentadiene that Exhibits Stable P-Type Photochromism

○Keitatsu Okazaki¹, Ami Nakayama¹, Mei Komaki¹, Yutaka Nagasawa¹ (1.Ritsumeikan Univ.)

[094] Sequential Two-Photon Reaction of COPV2 in Dichloromethane

○Izumi Iwakura¹, Sena Hashimoto¹, Hayato Tsuji¹ (1.Kanagawa Univ.)

[095] Fully Quantum-Mechanical Comparison of Entangled Two-Photon Absorption and Laser-Pulse Two-Photon Absorption

○Hisaki Oka¹, Sena Hashimoto¹, Izumi Iwakura¹ (1.Kanagawa Univ.)

[096] Disentangling Magnetic and Natural Optical Activity in 1D Chiral Perovskite

○Stevie Furxhiu¹, Zhenglin Jia², Tik Leun Leung^{3,4}, Anita Ho-Baillie^{3,4}, Qianqian Lin², Girish Lakhwani¹ (1.Sch. of Chem., The Univ. of Sydney, 2.Sch. of Phys. and Tech., Wuhan Univ., 3.Sch. of Phys., The Univ. of Sydney, 4.Sydney Nano, The Univ. of Sydney)

[097] Aggregation Induced Luminescent Enhancement of Camphor-Derived Eu(III) Complex in Aqueous Methanol

○Soichiro Nakano¹, Mengfei Wang^{1,2}, Yuichi Kitagawa^{1,2}, Yasuchika Hasegawa^{1,2} (1.Eng., Hokkaido Univ., 2.ICReDD, Hokkaido Univ.)

[098] Circularly Polarized Luminescence Control in Excimer Formation of Ladder-Type Pyrene Derivatives

○Hareta Nakane¹, Zhe Wang¹, Tadashi Mori¹ (1.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[099] Tetravalent Cerium Complex with 4f-Orbital-Based Charge-Transfer Transitions for a Magnetically Modulated Helicity Filter Covering the Entire Visible Spectrum

○Toranosuke Tomikawa¹, Tomoko Akama^{2,3}, Mengfei Wang^{2,4}, Masato Kobayashi^{2,3}, Takayuki Nakanishi⁵, Tetsuya Taketsugu^{2,3}, Yasuchika Hasegawa^{2,4}, Sunao Shoji⁶, Yuichi Kitagawa^{2,4} (1.Grad. Sch. Chem. Sci. Eng., Hokkaido Univ., 2.WPI-ICReDD, Hokkaido Univ., 3.Fac. Sci., Hokkaido Univ., 4.Fac. Eng., Hokkaido Univ., 5.NIMS, 6.Fac. Eng., Nara Women's Univ.)

[100] Photophysical Properties and Dehydrogenation-Induced Diradical Generation of a Fluorene Dimer

○Koki Nakatsu¹, Nobuhito Kishimoto¹, Wang Zhe², Tadashi Mori² (1.Grad. Sch. of Eng., The Univ. of Osaka, 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[101] Synthesis of Hexaarylbenzene with a Fluorescent Coumarin Skeleton and Application to Chiral Sensing

○Kitaura Taichi¹, Wang Zhe², Mori Tadashi² (1.Grad. Sch. of Eng., The Univ. of Osaka, 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[102] Dynamic Molecular Triplet Excitons in Lanthanide Complex Assemblies for Ultrasensitive Optical Oxygen Sensing

○Takuma Nakai¹, Mengfei Wang^{2,3}, Sunao Shoji⁴, Koji Fushimi², Yasuchika Hasegawa^{2,3}, Takayuki Nakanishi⁵, Yuichi Kitagawa^{2,3} (1.Grad. Sch. of Chem. Sci. and Eng., Hokkaido Univ., 2.Fac. of Eng., Hokkaido Univ., 3.WPI-ICReDD, Hokkaido Univ., 4.Fac. of Eng., Nara Women's Univ., 5.NIMS)

[103] Solvent Dependence of Intramolecular Excimer Formation and Circularly Polarized Luminescence in Chiral 1,8-Naphthalimide Derivatives

○Yuki Iwase¹, Hiroshi Takashima², Yoshitane Imai³, Honoka Akiyama³, Shoko Yamazaki⁴, Norimitsu Tohnai⁵, Eiji, Nakata⁶ (1.Grad. Sch. Chem., Nara Women's Univ., 2.Nara Women's Univ., 3.Grad. Sch. Sci. Eng., Kindai Univ., 4.Nara Univ. of Educ., 5.The Univ. Osaka, 6.Kyoto Univ.)

[104] Amplification of Ligand Displacement by Suppressed Charge Recombination in CdSe/ZnS Core/Shell Nanocrystals

○Bunta Takano¹, Yuki Nagai¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[105] BSA-Mediated Fluorescence Enhancement of Organic Nanoparticles Produced by Laser Fragmentation in Liquid

○Rikuto Nakada¹, Sota Ishihara¹, Daisuke Tominaga¹, Tomosumi Kamimura^{1,2} and Ryohei Yasukuni¹ (1. Osaka Inst. of Tech., 2.Inst. of Laser Eng., The Univ. of Osaka,)

[106] Exciplex Formation and Circularly Polarized Luminescence in Ladder-Type Pyrene and π -Conjugated Donor-Acceptor Systems

○Kosaka Ryusei¹, Mori Tadashi², Wang Zhe² (1.Grad. Sch. of Eng., The Univ. of Osaka, 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[107] Resist Removal Phenomena Induced by Picosecond Laser Irradiation

○Yuuki Tanaka¹, S.Morisita¹, Y.Murakami¹, Y.Asada¹, R.Yasukuni¹, M.Yosimura², H.Kataoka³, H.Horibe³, T.Kamimura^{1,2} (1.Osaka Inst. of Tech., 2.Inst. of Laser Eng., The Univ. of Osaka, 3.Osaka Metro. Univ.)

[108] Synthesis of Near-Infrared Luminescent Titanium Nitride Nanoparticles for Application in Sustainable Optoelectronics

○Dibya Darshana Nayak¹, Saadia El Khaldi¹, Aswathi Maladan¹, Ch. Subrahmanyam², Vasudevanpillai Biju^{1,3} (1.Grad. Sch. of Environ. Sci., Hokkaido Univ. 2.Dept. of Chem., IIT Hyderabad, 3.Res. Inst. for Electro. Sci., Hokkaido Univ.)

[109] Water-Soluble Photoredox Polymer Nanoparticles for C–F Bond Cleavage of Organofluorine Compounds

○Maika Okuda¹, Shiori Sugano¹, Yasuko Osakada², Kiyohiko Kawai³, Mamoru Fujitsuka³, Tadao Takada¹ (1.Univ. Hyogo, 2.The Univ. Osaka, 3.Inst. of Sci. Tokyo)

[110] Photochemical Generation of Naphthalene Diimide Dianions for C-F Bond Cleavage of Organofluorine Compounds

○Ayaka Nakahara¹, Kiyohiko Kawai², Mitsunobu Nakamura¹, Yasuko Osakada³, Mamoru Fujitsuka³, Tadao Takada¹ (1.Univ. Hyogo, 2.Inst. Sci. Tokyo, 3.The Univ. Osaka, ISIR)

[111] Synthesis and Excimer Emission Properties of Chiral-Substituted Pyrene Derivatives

○Ryosuke Ibaragi¹, Zhe Wang², Tadashi Mori² (1.Grad. Sch. of Eng., The Univ. of Osaka, 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[112] Photo and Mechano-Responses of DASAs in the Solid State

○Kenshin Yamamoto¹, Elodie Dubus², Juan Xie², Remi Metivier², Guillaume Laurent², Tomosumi Kamimura¹, Ryohei Yasukuni¹ (1. Osaka Inst. of Tech., 2.Université Paris-Saclay, PPSM)

[113] Influence of Surfactants on the Optical Properties of Organic Nanocrystals Produced by Laser Fragmentation in Liquid

○Daisuke Tominaga¹, Seiji Moriwaki¹, Haruaki Horie¹, Yoshiyuki Harada¹, Tomosumi Kamimura^{1,2}, Ryohei Yasukuni¹ (1. Osaka Inst. of Tech., 2.Inst. of laser Eng., The Univ. of Osaka)

[114] Impact of Surface Energy on the Laser Fragmentation of Organic Crystals

○Sota Ishihara¹, Rikuto Nakada¹, Tomosumi Kamimura^{1,2}, Ryohei Yasukuni¹ (1. Osaka Inst. of Tech., 2.Inst. of Laser Eng., The Univ. of Osaka)

[115] Picosecond Decay of Photoexcited Interfacial Charge Carriers on Nanosecond-Laser-Processed Metal Surfaces Probed by Potential-Controlled Transient Absorption Spectroscopy

○Hiroki Iwaizumi^{1,2}, Kazuki Takeda², Akihiro Furube^{1,2} (1. pLED, Tokushima Univ., 2.Fac. of Sci. and Tech., Tokushima Univ.)

[116] A Room-Temperature Liquid Helical Europium Luminophore Enabled by Polyethylene Glycol-Gallate Coordination

○Takuya Hara¹, Reo Ohno¹, Nikita Madhukar¹, Miki Hasegawa¹ (1.College of Sci. and Eng., Aoyama Gakuin Univ.)

[117] Excited-State Engineering via Controlled Aggregation in Porphyrin-Chitosan Conjugates for Enhanced Cocatalyst-Free Photocatalytic Hydrogen Evolution

○Kushal Mohan Gowda¹, Yasuko Osakada^{2,3}, Mamoru Fujitsuka^{2,3}, Vasudevanpillai Biju^{1,4}, Yuta Takano^{1,4}
(1.Grad. Sch. of Environ. Sci., Hokkaido Univ.; 2.SANKEN, The Univ. of Osaka; 3. ICS-OTRI, The Univ. of Osaka; 4.RIES, Hokkaido Univ.)

[118] Oxygen Vacancy-Induced Fast Hole Trapping in Indium-Doped Zinc Oxide Nanocrystals

○Kanato Nagai¹, Yuki Nagai¹, Yoichi Kobayashi¹ (1.Ritsumeikan Univ.)

[119] Design of [5]Helicene-Based Chiral Luminescent Materials

○Keijiro Hayashi¹, Zhe Wang², Tadashi Mori² (1.Grad. Sch. of Eng., The Univ. of Osaka, 2.Res. Ctr. for Environmental Preservation, The Univ. of Osaka)

[120] Optical Trapping and Assembling of Quantum Dot-Labeled Proteins on Supported Lipid Bilayers

○Shunya Moriyama¹, Yasushi Tanimoto^{1,2}, Kyoko Masui¹, Chie Hosokawa¹ (1.Osaka Metro. Univ., 2.Kobe Univ.)

[121] Multiple Luminescent Solvates of a C₃-Symmetric Phloroglucinol Derivative

○Atsuya Iwasaki¹, Suguru Ito¹ (1.Yokohama Natl. Univ.)

[122] Molecular Design of the Pendant-Induced Helical Europium Complex for Dual Luminescence

○Anzu Oyamaguchi¹, Reo Ohno¹, Nikita Madhukar¹, Miki Hasegawa¹ (1.Coll. Sci. & Eng., Aoyama Gakuin Univ.)

[123] Controllable Triboluminescence Mechanisms in Chiral Lanthanide Complex Crystals with Amino Acid Derivatives

○Reo Ohno¹, Nikita Madhukar¹, Miki Hasegawa¹ (1.Coll. Sci. & Eng., Aoyama Gakuin Univ.)

[124] Pyrene Aldehyde Revisited as a Fluorescence Probe for Thermodynamic Transitions

○Nobuyuki Ichinose¹, Haruto Kimura¹ (1.Kyoto Inst. of Tech.)

[125] Two-Photon Photopolymerization Dynamics Induced by Femtosecond Optical Vortex Beams in a Methacrylate-Based Resin

○Kyoko Masui¹, Yoshihisa Matsumoto¹, Narimi Hattori¹, Chie Hosokawa¹ (1.Osaka Metro. Univ.)

[126] E-Z Photoisomerization of Pyrrole-Hemiindigo Compounds Forming Intramolecular Hydrogen Bonds

○Ami Nakayama¹, Keitatsu Okazaki¹, Reona Yoshida¹, Kotaro Seki¹, Kento Takase¹, Yutaka Nagasawa¹
(1.Ritsumeikan Univ.)

[127] Photochromism and Aggregation-Induced Emission Control of N-Substituted Diarylmaleimides and their Oxidized Derivatives

Kai Nishikawa¹, Mei Ikeda¹, Hayato Tsuzuki¹, ○Takashi Ubukata¹ (1.Yokohama Natl, Univ.)

[128] TTA-suppressed Intramolecular Singlet Fission in Tetracene Dyad: Observation and Kinetic Analysis of Long-lived Triplet Pairs

○Eiki Nishizato¹, Yasunori Matsui^{1,2}, Takuya Ogaki^{1,2}, Tatsuo Nakagawa³, Masaaki Fuki^{4,5}, Yasuhiro Kobori^{4,5,6}, Hiroshi Ikeda^{1,2} (1.Grad. Sch. of Eng., Osaka Metro. Univ., 2.RIMED, Osaka Metro. Univ., 3.UNISOKU Co., Ltd., 4.Grad. Sch. of Sci., Kobe Univ., 5.CLiPI, Kobe Univ., 6.CREST, JST.)

[129] p-Type Organic Semiconductors with an Annulated Thiazole: Photochemical Synthesis and Theoretically High Hole Mobility Predicted from Crystal Structure

○Masato Uenaga¹, Takuya Ogaki^{1,2}, Yasunori Matsui^{1,2}, Toshio Asada^{2,3}, Hiroshi Ikeda^{1,2} (1.Grad. Sch. of Eng., Osaka Metro. Univ., 2.RIMED, Osaka Metro. Univ., 3.Grad. Sch. of Sci., Osaka Metro. Univ.)

[130] Photophysical Dynamics of Peri-Naphthoindigo: Temperature and Solvent Dependence

○Hiroto Ikegami¹, Yuki Shimizu¹, Junichiro Tani¹, Yutaka Nagasawa¹ (1.Ritsumeikan Univ.)

[131] Initiator Effects in Photoinduced Ring-Expansion Polymerization of Methacrylates Using Benzothiazole-Based Initiators

○Sena Hashimoto¹, Izumi Iwakura¹, Yuta Miyagawa¹, Atsushi Kameyama¹ (1.Kanagawa Univ.)

[132] Fabrication and Photochemical Properties of Classified Silver Nanoparticle–Titanium Oxide Composite Films

○Y. Fukumi¹, N. Koyama¹, T. Oku¹, T. Akiyama¹ (1.The Univ. of Shiga Pref.)

[133] Experimental Data-Driven Machine Learning for Multielement-Doped Hematite Photoelectrodes

○Takuma Nishimura¹, Yoshitaka Kumabe^{1,2}, Yosuke Harashima^{3,4}, Mikiya Fujii^{3,4,5}, Takashi Tachikawa^{2,3} (1.Grad. Sch. of Sci., Kobe Univ., 2.CLiPI, Kobe Univ., 3.MS, NAIST, 4.DSC, NAIST, 5.CMP, NAIST)

[134] Evaluation of Photocatalytic Activity Using Pd Nanoparticles

○Yukie Yokota¹, Mamoru Ichikawa¹, Asuka Fujita¹, Takuya Ito¹, Mao Takeda¹, Taiga Uehara¹, Hiroshi Uchida¹ (1.Sophia Univ.)