Poster Presentation (P26-001-132)

Wednesday, July 26, 2023 17:10 - 19:40

17:10-18:25 Odd-Numbered Presentation Time

18:25-19:40 Even-Numbered Presentation Time

[P26-001] Simultaneous Recording of Independent Visible and Infrared Images in a Phase-Change Thin Film Cavity for Multispectral Optical Security

Dongkyun Kang[1], Jungwoo Pyo[1], Jaehyeong Kim[1], Yinhyui Joo[1], *Myeongkyu Lee[1] (1. Yonsei Univ. (Korea))

[P26-002] Dual-Modality Contrast Agent for Photoacoustic Imaging

Daewoon Seong[1], Sm Abu Saleah[2], Jeehyun Kim[1], *Mansik Jeon[1] (1. School of Electronic and Electrical Engineering, College of IT Engineering, Kyungpook National Univ. (Korea), 2. ICT Convergence Research Center, Kyungpook National Univ. (Korea))

[P26-003] Quantitative Investigation for Novel Material showing Change of Light Absorption by Mechanical Pressure

*Keisuke Ogumi[1,2], Kohki Nagata[1], Yuki Takimoto[1], Kentaro Mishiba[1], Yutaka Matsuo[2,3] (1. Tokyo Metropolitan Industrial Technology Research Institute (Japan), 2. Institute of Materials Innovation, Institutes of Innovation for Future Society, Nagoya Univ. (Japan), 3. Department of Chemical Systems Engineering, Graduate School of Engineering, Nagoya Univ. (Japan))

[P26-004] Fluorescent Polymer Films Based on Photo-Induced Electron Transfer for Visualizing Moisture and Water Droplet: Anthracene-(Aminomethyl)-4-Cyanophenylboronic Acid Pinacol Ester

*Yousuke Ooyama[1], Saori Miho[1], Keiichi Imato[1], Mio Ishida[2], Seiji Akiyama[2] (1. Hiroshima Univ. (Japan), 2. Mitsubishi Chemical Corporation (Japan))

[P26-005] ESIPT-capable Zinc(II) Complexes with 1-Hydroxy-1*H*-Imidazole-Based Ligands: Molecular Design and Non-Trivial Emission Properties

*Nikita Shekhovtsov[1], Elena Nikolaenkova[2], Victor Plyusnin[3], Sofia Vorobyova[1], Alexey Berezin[1], Alexsei Tikhonov[2], Mark Bushuev[1] (1. Nikolaev Institute of Inorganic Chemistry SB RAS (Russia), 2. N. N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS (Russia), 3. Voevodsky Institute of Chemical Kinetics and Combustion (Russia))

[P26-006] Terahertz Absorption Spectroscopy of Methanol and Deuterated-Methanol Vapour using a Quantum Cascade Laser

*Michael David Horbury[1], Nick North[1], Jakob Holstein[2], Harry Godden[2], Lianhe Li[1], Josh Freeman[1], Edmund Linfield[1], Hartmut Roskos[2], Alvydas Lisauskas[2], Alexander Valavanis[1] (1. Univ. of Leeds (UK), 2. Johan Wolfgang Goethe-Universität (Germany))

[P26-007] Sustainable Production of Highly Desirable Pro-fluorophoric Rhodamine-110 by Deethylation of RhB: A Commonly Overlooked Phenomenon in RhB Degradation

*Maqsuma Banoo[1], Ujjal Gautam[1] (1. IISER Mohali (India))

[P26-008] Enhanced Fluorescence behavior of Safranine-O by Complexing with Inorganic Clay Nanosheets

*Melechalil Masbooth Rasa[1], Kyosuke Arakawa[1], Yugo Hirade[1], Fazalurahman Kuttassery[2], Tetsuya Shimada[1], Tamao Ishida[1], Shinsuke Takagi[1] (1. Tokyo Metropolitan Univ. (Japan), 2. Calicut Univ. (India))

[P26-009] Co(III)-Cyclometalated-Bidentate-Complexes

*Anabel Miletic[1], Tanja Hirschhausen[1], Matthias Bauer[1] (1. Universität Paderborn (Germany))

[P26-010] Development of Novel Photocages and Switches Based on Quinone Methide and Allides

*Eva Bednářová[1], Tomáš Slanina[1] (1. Institute of Organic Chemistry and Biochemistry (Czech Republic))

[P26-011] Optical Properties and Photoexcited Carrier Dynamics of $CH_3NH_3PbBrxI_{3-x}$ Single Crystals

*Dong Liu[1], Hua Li[1], Yusheng Li[1], Taro Toyoda[1], Shuzi Hayase[1], Chao Ding[1], Qing Shen[1] (1. The Univ. of Electro-Communications (Japan))

[P26-012] Quest on Singlet Fission of Organic Sulfur-Containing Systems in the Higher Lying Singlet Excited State: An Application Prospect of Anti-Kasha Rule

Chun-Hao Huang[1], Chi-Chi Wu[2], *Elise Yu-Tzu Li[1], Pi-Tai Chou[2] (1. National Taiwan Normal Univ. (Taiwan), 2. National Taiwan Univ. (Taiwan))

[P26-013] Two-Photon Absorption Properties and Intermediate Singlet Diradical Character of Oxocarbon Derivatives

Tatsuki Konishi[1], *Kenji Kamada[1], Taishi Oka[2], Takeshi Maeda[2] (1. National Institute of Advanced Industrial Science and Technology (Japan), 2. Osaka Metropolitan Univ. (Japan))

[P26-014] Quantum Resonance in CdTe Quantum Dot Superlattices Fabricated by Utilizing Chemical Bonding Between Ligands

*Dai Takayama[1], Shibuta Masahiro[1], DaeGwi Kim[1] (1. Osaka Metropolitan Univ. (Japan))

[P26-015] Observation of Quantum Resonance in CdSe Quantum Dot Superlattices

*Kazuki Kamada[1], Zhenyu Yang[1], Masahiro Shibuta[1], DaeGwi Kim[1] (1. Osaka Metropolitan Univ. (Japan))

[P26-016] Enhancing Photon Upconversion with Thermally Activated Sensitization and Singlet Energy Collection

*Yi Zeng[1,2], Guiwen Luo[1,2], Yi Li[1,2] (1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences (China), 2. Univ. of Chinese Academy of Sciences (China))

[P26-017] Two-Coordinate Gold(I) Complexes Enable High-Efficiency Electroluminescence in the Red to Near-Infrared Emission Region

*Byung Hak Jhun[1], Sreenivas Avula[1], Unhyeok Jo[2], Seunga Heo[3], Jun Yeob Lee[2], Youngmin You[1] (1. Yonsei Univ. (Korea), 2. Sungkyunkwan Univ. (Korea), 3. Ewha Womans Univ. (Korea))

[P26-018] Temperature and Excitation Wavelength Dependence of the Photochromism of a Spiropyran Derivative, SBP-β-NP

*Yu Matsunaka[1], Takayuki Murai[1], Sora Ishikawa[1], Tetsuya Yamamoto[1], Kazuki Hinago[1], Yutaka Nagasawa[1] (1. Ritsumeikan Univ. (Japan))

[P26-019] Photo-oxidation Dynamics of Alcohol by a NAD^+-type Zinc Complex Studied by Femtosecond Time-resolved Spectroscopy

*Sora Ishikawa[1], Takayuki Murai[1], Yu Matsunaka[1], Kazuki Hinago[1], Tetsuya Yamamoto[1], Kazuki Shibahara[2], Ryo Kurata[2], Hideki Ohtsu[2], Yutaka Nagasawa[1] (1. Ritsumeikan Univ. (Japan), 2. Toyama Univ. (Japan))

[P26-020] Excited State Dynamics and Temperature Dependence of the Photoisomerization of *N,N′*-diacetylindigo

*Takayuki Murai[1], Sora Ishikawa[1], Yu Matsunaka[1], Yamato Higashi[1], Yuki Shimizu[1], Kazuki Hinago[1], Tetsuya Yamamoto[1], Yutaka Nagasawa[1] (1. Ritsumeikan Univ. (Japan))

[P26-021] Pyrene-doped Silica Nanoparticles with Low Dye Leaching

*Noor-E- Ashrafi[1], Nao Kojima[1], Kota Uchiyama[1], Hideyuki Nakano[1], Toshifumi Iimori[1] (1. Muroran Institute of Technology (Japan))

[P26-022] Photochromism of a Hemithioindigo Derivative with an Intramolecular Hydrogen Bond

*Ren Onoda[1] (1. Ritsumeikan Univ. (Japan))

[P26-023] Time-Resolved EPR Study of Electron Spin Polarization in an Efficient Triplet-Triplet Annihilation Upconversion System

*Tsubasa Okamoto[1,2], Yasuhiro Kobori[1,2] (1. Mol. Photosci. Res. Ctr, Kobe Univ. (Japan), 2. Grad. Sch. of Sci., Kobe Univ. (Japan))

[P26-024] Excimer Formation in Polycrystalline PBI Films: Dependence on Packing Geometry

*Seongsoo Kang[1], Dongho Kim[1] (1. Yonsei Univ. (Korea))

[P26-025] Robust Cyclometalated Iridium(III) Complexes Coordinated with 5,5'-bis(trifluoromethyl)-2,2'-bipyridine for Hydrogen Evolution Reactions

*Natsumi Yano[1], Yusuke Kataoka[1] (1. Shimane Univ. (Japan))

[P26-026] Vapochromic Behavior and Phase Transition of Paddlewheel-type Dirhodium Tetrahexanoate Complex

Natsumi Yano[1], Yoshihiro Kohara[1], Shuhei Taniguchi[1], Tatsuya Kawamoto[2], *Yusuke Kataoka[1] (1. Shimane Univ. (Japan), 2. Kanagawa Univ. (Japan))

[P26-027] Improve Charge Transfer under Strong Coupling Condition via Interfacial Modulation

*En Cao[1], Xu Shi[1], Yocefu Hattori[1], Quan Sun[1], Tomoya Oshikiri[2], Hiroaki Misawa[1,3] (1. Hokkaido Univ. (Japan), 2. Tohoku Univ. (Japan), 3. National Yang Ming Chiao Tung Univ. (Taiwan))

[P26-028] Surface-Fixation Induced Emission (S-FIE) Caused by Dramatically Promotion of Radiative Deactivation on Inorganic Nanosheet

*Kyosuke Arakawa[1], Tetsuya Shimada[2], Shinsuke Takagi[2], Won-Sik Han[3] (1. Tokyo Univ. of Science (Japan), 2. Tokyo Metropolitan Univ. (Japan), 3. Seoul Women's Univ. (Korea))

[P26-029] Diffusion Dynamics of Electron Ejected by Photoionization in Solution: Relation with the Fluctuation of the Solvent

*Yuya Hirata[1], Tomoya Sawada[1], Hikaru Sotome[1], Hiroshi Miyasaka[1] (1. Osaka Univ. (Japan))

[P26-030] Study on Mechanofluorochromism of Pyrene Derivatives from Nanomechanical Point of View

*Yuichi Hirai[1], Takahito Ohmura[1], Takashi Takeda[1], Takayuki Nakanishi[1], Clémence Allain[2], Rémi Métivier[2] (1. National Institute for Materials Science (Japan), 2. Université Paris-Saclay, ENS Paris-Saclay, CNRS (France))

[P26-031] Time-Resolved Soft X-Ray Absorption Spectroscopy of an Iron Phenanthroline Complex Solution by Laser Excitation and Synchrotron Radiation Probe

*Fumitoshi Kumaki[1], Masanari Nagasaka[2,3], Ryo Fukaya[1], Jun-ichi Adachi[1,4] (1. Institute of Materials Structure Science (Japan), 2. Institute of Molecular Science (Japan), 3. Molecular Science Program, The Graduate Univ. for Advanced Studies (Japan), 4. Materials Structure Science Program, The Graduate Univ. for Advanced Studies (Japan))

[P26-032] Ultrafast Nonradiative Deactivation Mechanism of Solvatochromic Dye, Phenol Blue, in Solution and in Amorphous Phase

*Taketomo Tanaka[1], Kazuki Hinago[1], Haruka Tsujii[1], Tetsuya Yamamoto[1], Yutaka Nagasawa[1] (1. Ritsumeikan Univ. Graduate Schools (Japan))

[P26-033] Unraveling the Energy Transfer Dynamics in a Single Crystal of Phycocyanin Protein Using Femtosecond Transient Absorption Microscopy

*Shuto Ueda[1], Akira Yamamoto[1], Tetsuro Katayama[1], Yasufumi Umena[2], Akihiro Furube[1] (1. Tokushima Univ. (Japan), 2. Nagoya Univ. (Japan))

[P26-034] Carrier Dynamics in a Quasi-Two-Dimensional Perovskite Crystal by Utilizing Femtosecond Transient Absorption Microscopy

*Yuichi Ikura[1], Akira Yamamoto[1], Testuro Katayama[1], Akihiro Furube[1] (1. Tokushima Univ. (Japan))

[P26-035] Silicon Carbide Nanoparticle Fabrication by Laser Ablation in Liquid and Carrier Dynamics Evaluation by Transient Absorption Spectroscopy

*Shunsuke Yuyama[1], Pankaj Koinkar[1], Tetsuro Katayama[1], Akihiro Furube[1] (1. Tokushima Univ. (Japan))

[P26-036] Ultrafast Excited-state Aromatization Process in 1,6-methano[10]annulene

*Jinseok Kim[1], Cheol Ho Choi[2], Dongho Kim[1] (1. Yonsei Univ. (Korea), 2. Kyungpook National Univ. (Korea))

[P26-037] Vibrational Strong Coupling Using MIM Metasurfaces for Molecular Emitter

*Yoshiaki Nishijima[1] (1. Yokohama National Univ. (Japan))

[P26-038] Photoelectrochemical Fabrication of Periodic Lead Oxide Nanostructures under Linearly Polarized Light

*Hiroyasu Nishi[1], Haruka Tojo[1], Akari Kawai[2], Tetsu Tatsuma[2] (1. Univ. of Toyama (Japan), 2. The Univ. of Tokyo (Japan))

[P26-039] Sulfonium-Functionalized Polystyrene Based Non-chemically Amplified Resists Enabling sub-13 nm Nanolithography

*Jinping Chen[1], Zhihao Wang[1], Yi Li[1] (1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences (China))

[P26-040] Fabrication of a Plasmonic Optical Fiber Using Gold Nanoparticles for Optical Trapping of Polymeric Nanospheres

*Yuki Asase[1], Nene Higaki[2], Tatsuya Shoji[1,2] (1. Grad. Sch. of Sci., Kanagawa Univ. (Japan), 2. Fac. of Sci., Kanagawa Univ. (Japan))

[P26-041] Plasmonic Enhancement of Photoexcited Electrons at Size-Selected Silver Nanoclusters Supported on Organic Substrates Studied by Two-Photon Photoemission Spectroscopy/Microscopy

*Masahiro Shibuta[1,2], Tomoya Inoue[3], Kaito Mizoguchi[3], Kana Yamagiwa[3], Atsushi Nakajima[2,3] (1. Osaka Metropolitan Univ. (Japan), 2. Keio Institute of Pure and Applied Sciences (Japan), 3. Keio Univ. (Japan))

[P26-042] Plasmonic Nanostructures Formation in Nanopores of Cross-Linked Protein Crystals and Its Acceleration by Photo-Irradiation

*Takayuki Uwada[1], Yui Honma[1] (1. Josai Univ. (Japan))

[P26-043] Synthesis and Optical Properties of Shape-controlled EuF_n Nanocrystals from the Thermal Decomposition of Eu(III) Complex

*Akira Kawashima[1], Naoki Nogami[1], Makoto Kitayama[1], Shigeru Kohtani[1] (1. Hyogo Medical Univ. (Japan))

[P26-044] Photo-Activated Winding and Unwinding Motion of Nanoscroll Composed of Niobate Nanosheet and Polyfluoroalkyl Azobenzene Derivative

*Yuki Iwata[1], Kazuki Sakai[1], Kazuki Koganemaru[1], Tsutomu Shiragami[1], Yu Nabetani[1] (1. Univ. of Miyazaki (Japan))

[P26-045] *p*-Nitrophenol Reduction Using Pd Nanosheets as the Catalyst under Light Irradiation

*Asuka Fujita[1], Hiroshi Uchida[1], Yukie Yokota[1] (1. Sophia Univ. (Japan))

[P26-046] Laser Desorption/ionization of Metal Ions from Conjugated Two Kinds of Alloy Nanoparticles

Ayaka Yasuda[1], Mizuki Toyonaga[1], *Yasuro Niidome[1] (1. Kagoshima Univ. (Japan))

[P26-047] Control of Plasmon Dephasing Time Using Plasmonic Coupled Systems

*Keisuke Imaeda[1], Junfeng Yue[2], Rin Miyazaki[2], Hiroki Takeuchi[2], Sou Ryuzaki[1], Kosei Ueno[1] (1. Faculty of Science, Hokkaido Univ. (Japan), 2. Graduate School of Chemical Sciences and Engineering, Hokkaido Univ. (Japan))

[P26-048] Multi-Target Analysis for Biotin-Avidin Interaction with a Single Plasmonic Chip

*Shohei Horio[1], Qiang Tang[1], Yasunori Nawa[1], Hirobumi Sunayama[2], Toshifumi Takeuchi[3], Keiko Tawa[1] (1. Graduate School of Science and Technology, Kwansei Gakuin Univ. (Japan), 2. Graduate School of Medicine, Kobe Univ. (Japan), 3. Innovation Commercialization Division, Kobe Univ. (Japan))

[P26-049] Nonlinear Photoluminescence from Gold Nanoplates Excited by Cylindrical Vector Beam

*Seiju Hasegawa[1], Honoka Ichikawa[1], Kohei Imura[1] (1. Waseda Univ. (Japan))

[P26-050] Significant Improvement in Upconverted Emission from Solid-State TTA-UC Systems by the Synergy of Thermoplasmonic and Plasmonic Near-Field Effects

*Kosuke Sugawa[1], Ikuya Kawai[1], Joe Otsuki[1] (1. Nihon Univ. (Japan))

[P26-051] The Protective Effect of Djulis and Its Bioactive Compounds Against Blue Light-Induced Retina Damage

*Pin-Der Duh[1], Ching-Chih Liu, Chin-Chen Chu, Shih-Ying Chen (1. Department of Food Science and Technology, Chia Nan Univ. of Pharmacy and Science (Taiwan))

[P26-052] Development of Fluorescent Magnetic Nanoparticles for the Measurement of Living Substances

*Yoshio Suzuki[1] (1. National Institute of Advanced Industrial Science and Technology (Japan))

[P26-053] Construction of Molecular Devices for Theranostics based on Controlled Intersystem Crossing and Photoelectron transfer

*Toshihide Maki[1], Takayuki Matsunaga[1], Momoko Yonezaki[1], Reiko Kyogoku[1], Zheyang Zhou[1] (1. Nagasaki Univ. (Japan))

[P26-054] Serum Biomarker Detection by Luciferin-based Bioluminogenic Probes

*Rui Hu[1], Guoqiang Yang[1,2] (1. Institute of Chemistry, Chinese Academy of Sciences (China), 2. Univ. of Chinese Academy of Sciences (China))

[P26-055] Bioluminescent Probes Based on Luciferase-Luciferin System for Tyrosinase and NQO1

*Xudong Guo[1,2], Rui Hu[1,2], Guoqiang Yang[1,2] (1. Institute of Chemistry, Chinese Academy of Sciences (China), 2. Univ. of Chinese Academy of Sciences (China))

[P26-056] Development of Pyrene-Based Solvatochromic Fluorescent Dyes for Studying Physical Properties of Lipid Membranes in Extracellular Vesicles

*Hitomi Seki[1], Shinkuro Yamamoto[1], Keiji Inoue[1], Shingo Hadano[1], Shigeru Watanabe[1], Yosuke Niko[1] (1. Kochi Univ. (Japan))

[P26-057] Estimation of the Partial Molar Volume of Carbon Dioxide Produced from Photodecarboxylation of Ketoprofen by Transient Grating Method

*Wataru Kashihara[1], Hyu Tamai[1], Tadashi Suzuki[1] (1. Aoyama Gakuin Univ. (Japan))

[P26-058] Relative Stability and Electronic States in the S_1 State of the $CaMn_4O_5$ Cluster of the OEC of the PSII by DFT and DLPNO CC Calculations

*Koichi Miyagawa[1], Mitsuo Shoji[1], Takashi Kawakami[2,3], Hiroshi Isobe[4], Kizashi Yamaguchi[2,5,6], Yasuteru Shigeta[1] (1. CCS, Univ. of Tsukuba (Japan), 2. R-CCS (Japan), 3. Grad School Sci., Osaka Univ. (Japan), 4. RIIS, Okayama Univ. (Japan), 5. QIQB, Osaka Univ. (Japan), 6. SANKEN, Osaka Univ. (Japan))

[P26-059] Dye-based Nanotechnology for Photoactivated Therapy of Cancer

*Wen Sun[1] (1. Dalian Univ. of Technology (China))

[P26-060] Ferroptosis-based Fluorescence Imaging and tumor Therapy

*Jianjun Du[1], Qiao Hu[1], Jiazhu Zheng[1], Jiangli Fan[1], Xiaojun Peng[1] (1. Dalian Univ. of Technology (China))

[P26-061] Photocatalytic Reduction of Carbon Dioxide Using BiSeX/g-C_3N_4 (X = Cl, Br, I) as photocatalysts

Yu-Yun Lin[1], Fu-Yu Liu[1], *Chiing-Chang Chen[1] (1. National Taichung Univ. of Education (Taiwan))

[P26-062] Facet-Engineering of Metal-Organic Frameworks for Photocatalytic Carbon Dioxide Reduction

*Wei-Yin Sun[1] (1. Nanjing Univ. (China))

[P26-063] Spinel HTM for High-Efficiency Perovskite Solar Cells Based on Perovskite Prepared Without Using Toxic Solvent and Anti-solvent in Air

*Chun-Guey Wu[1] (1. National Central Univ. (Taiwan))

[P26-064] Si-photocathode Passivated by $SrTiO_3$ Epitaxially for Solar Water Splitting

*Hsin-Chia Ho[1], Milutin Smiljanić[2], Zoran Jovanović[1,3], Blaž Jaklič[1,4], Janez Kovač[1], Miha Čekada[1], Jiří Hlinka[5], Nejc Hodnik[2], Matjaž Spreitzer[1] (1. Jožef Stefan Inst. (Slovenia), 2. National Institute of Chemistry (Slovenia), 3. Vinca Institute of Nuclear Sciences (Serbia), 4. Jožef Stefan Intl. Postgraduate School (Slovenia), 5. Inst. of Physics of the Czech Academy of Sciences (Czech Republic))

[P26-065] Decomposition of Perfluoroalkyl Substances by Near-UV and Visible Light Irradiation to Semiconductor Nanocrystals

*Yoichi Kobayashi[1,2], Yusuke Sanada[1], Yuzo Arima[1], Yoshinori Okayasu[1], Yuki Nagai[1] (1. Ritsumeikan Univ. (Japan), 2. PRESTO JST (Japan))

[P26-066] Solar-driven CO_2 Reduction to CO Utilizing H_2O as an Electron Donor by Earth-abundant Materials

*Shunsuke Sato[1], Takeo Arai[1], Keita Sekizawa[1], Tomiko M. Suzuki[1], Takeshi Morikawa[1] (1. Toyota Central R&D lab., Inc (Japan))

[P26-067] Cancelled

[P26-068] Solar-Driven Electrochemical Reduction of Carbon Dioxide to Carbon Monoxide Using Shingled-Type c-Si Photovoltaic Cells

*Tae-Won KIM[1], Jeon Ryang Lee[1], Seo-Jin Jeong[1] (1. Korea Institute of Industrial Technology (Korea))

[P26-069] Development of Highly Efficient Z-Scheme Hybrid Photocatalysts Combining Conjugated Polymer Semiconductors And Ru(II) Binuclear Supramolecular Photocatalyst for Visible-light-driven CO_2 Reduction

*Noritaka Sakakibara[1], Ewan McQueen[2], Yusuke Tamaki[1], Reiner Sebastian Sprick[2], Osamu Ishitani[1,3] (1. Tokyo Institute of Technology (Japan), 2. Univ. of Strathclyde (UK), 3. Hiroshima Univ. (Japan))

[P26-070] Improved Photocatalytic O_2 Evolution on a Sillén–Aurivillius Perovskite Oxychloride $Bi_6NbWO_{14}Cl$ by Rh_2O_3 Additives and Surface Modifications

*Hajime Suzuki[1], Takanori Takashima[1], Osamu Tomita[1], Ryu Abe[1] (1. Kyoto Univ. (Japan))

[P26-071] Femtosecond Spectroscopy of new Iron Bidentate Complexes with extended Lifetimes

Ronan Viel[1], Ulises Carrillo[2], Cristina Cebrian[2], Philippe Gros[2], *Stefan Haacke[1] (1. Univ. of Strasbourg - CNRS (France), 2. Univ. of Lorraine - CNRS (France))

[P26-072] Organic Solar Cells with PbS Quantum Dots Additives in the Active Layer

*Kei Takahashi[1], Taiga Matsumoto[1], Yuyao Wei[1], Chao Ding[1], Taro Toyoda[1], Syuzi Hayase[1], Qing Shen[1] (1. The Univ. of Electro-communications (Japan))

[P26-073] Efficient Hydrogen Peroxide Generation with Concurrent Formylation of Amines Mediated by Organic Photocatalysts

Chun-Leung Kwok[1], Pui-Yu Ho[1], Shun-Cheung Cheng[2], Shek-Man Yiu[2], *Chi-Fai Leung[1], Chi-Chiu Ko[2], Marc Robert[3,4] (1. The Education Univ. of Hong Kong (Hong Kong), 2. City Univ. of Hong Kong (Hong Kong), 3. Université Paris Cité (France), 4. Institut Universitaire de France (France))

[P26-074] Light Intensity-Dependence Study on Photocatalytic Carbon Dioxide Reduction Reaction by Silver-Loaded Titania

*Mai Takashima[1], Hiroto Kusumine[1] (1. Nagoya Univ. (Japan))

[P26-075] Construction of Ag/Ag_2S/CdS Heterostructures Through a Facile Two-Step Wet Chemical Processes for Efficient Photocatalytic Hydrogen Production

*Yu-Cheng Chang[1], Ying-Ru Lin[1,2] (1. Feng Chia Univ. (Taiwan), 2. National Yang Ming Chiao Tung Univ. (Taiwan))

[P26-076] Photocatalytic Two-Electron Reduction of Enones Assisted by CO_2

*Shintaro Okumura[1,2], Kaoru Torii[1], Yasuhiro Uozumi[1,2] (1. Institute for Molecular Science (Japan), 2. SOKENDAI (Japan))

[P26-077] Cancelled

[P26-078] Higher Available Photo-Induced Fluoroalkylation Reactions Focusing on the Optical Parameters of Light Sources

*Mayaka Maeno[1,2], Katsuyuki Morii[1,2] (1. Osaka Univ. (Japan), 2. Nippon Shokubai Co., Ltd. (Japan))

[P26-079] Effective Enhancement of Performances on Photo-Assisted Dye Degradation Using a Zn Coordination Polymer and Its Post-modified Cu/Zn Bimetallic Analogue Under Natural Environments

*Jing-Yun Wu[1] (1. National Chi Nan Univ. (Taiwan))

[P26-080] Photoelectrochemical Capacitive Current of Porphyrinic Porous Electrodes in a Phosphate-Buffered Saline Solution

*Shinya Moribe[1], Yasuhiko Takeda[1], Mitsutaro Umehara[1], Hirokazu Kikuta[1], Junji Ito[1], Jiaju Ma[1], Yuri Yamada[1], Minoru Hirano[1] (1. Toyota Central R&D Lab. inc (Japan))

[P26-081] New Ruthenium(II) Covalently Linked Subunits for Light Induced Water Oxidation

*Francesco Nastasi[1], Antonino Arrigo[1], Giuseppina La Ganga[1], Giuliana Lazzaro[1], Fausto Puntoriero[1], Sebastiano Campagna[1] (1. Univ. of Messina (Italy))

[P26-082] Coupling Red-To-Blue Upconversion Organic Microcrystals with $Cd_{0.5}Zn_{0.5}S$ for Efficient and Durable Photocatalytic H_2 Production

*Tianjun Yu[1], Yi Li[1] (1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences (China))

[P26-083] Graphene Functionalized Soybean Oil-Based Photo-Crosslinked Polymer Networks

*Beom Soo Kim[1], Hui Wang[1] (1. Chungbuk National Univ. (Korea))

[P26-084] Selective Oxidation of Alcohols over Cu Plasmonic Photocatalyst under Irradiation of Visible Light

*Atsuhiro Tanaka[1], Kohki Okabayashi[1], Hiroshi Kominami[1] (1. Kindai Univ. (Japan))

[P26-085] Synthesis of Cu-MOFs derived Ag_2O@CuO Composite for Complete Mineralization of Sulfur based Organic Odor Gas under Visible Light

*Suho Kim[1], Minhyung Lee[1], Hyoung-il Kim[1] (1. Yonsei Univ. (Korea))

[P26-086] Photodegradation of Iodosulfuron-Methyl-Ester

*Marcin Rakowiecki[1,2], Marcin Budny[2], Jacek Scianowski[1] (1. Faculty of Chemistry, Nicolaus Copernicus Univ. (Poland), 2. Synthex Technologies Sp. z.o.o. (Poland))

[P26-087] Effect of High-EUV-absorption Element in Chemically Amplified Resist System

*Hyoeun Choi[1], Yejin Ku[1], Gyuchan Wy[1], Jin-kyun Lee[1], Jong-Won Lee[2], Byeong-Gyu Park[2], Sangsul Lee[2] (1. Inha Univ. (Korea), 2. POSTECH (Korea))

[P26-088] Visible-light Absorption of Heteroleptic Cu(I)–bipyridine Complexes as Photosensitizers for Photocatalytic CO_2 Reduction

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[P26-089] Formation of Singlet Oxygen Sensitized by Germanium-*N*-Confused Porphyrin Complex

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[P26-090] Importance of Sacrificial Reagents in the Preparation of Co-catalyst Loaded TiO_2

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[P26-091] Asymmetric Induction on Photohydrogenation of Aromatic Ketones by Chiral Hydroxylamine Derivatives on Titanium Dioxide

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[P26-092] Synthesis of Two-Component Porphyrinic Metal–Organic Framework for Photocatalytic Hydrogen Production

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[P26-093] Highly Efficient Hydrogen Production in the Photoreforming by CdS Photocatalyst via MOF Precursor

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[P26-094] Preparation and Photocatalytic Characteristics of Crosslinked Naphthalene Polymer Film Deposited on Glass Surface

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[P26-095] Photoluminescence from Titanium Dioxide Derived from Various Titanium Salt Precursors

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[P26-096] The Donor-Acceptor-Donor Small-Molecules Dots are Brighter than the Polymer Dots of the similar Monomeric Unit

*Nirmal Kumar Das[1], Hubert Piwoński[1], Tsuyoshi Michinobu[2], Satoshi Habuchi[1] (1. King Abdullah Univ. of Science and Technology (Saudi Arabia), 2. Tokyo Institute of Technology (Japan))

[P26-097] Enhanced Chiral Exciton Coupling in Neat Molecular Films of a BODIPY-BINOL Conjugate

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[P26-098] Formation of a Core-Shell Droplet by Optical Tweezing in a Temperature Responsive Ionic Liquid Aqueous Solution

*Maho Tanaka[1], Yasuyuki Tsuboi[1], Ken-ichi Yuyama[1] (1. Osaka Metropolitan Univ. (Japan))

[P26-099] Nanoscopic Structure–Property Relationships of Organolead Halide Perovskites

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[P26-100] Exciton Diffusion in Single Supramolecular Nanorings

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[P26-101] Temperature-Dependent Intramolecular Energy Transfer Processes in Terbium(III) Complexes with Triphenylene Moiety

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[P26-102] Highly Sensitive Fluorescence Detection Based on a Poly(N-isopropylacrylamide) Droplet Formed by Optical Trapping using a Nanostructured Titanium Crystal

*Yukina Hiramatsu[1], Ken-ichi Yuyama[1], Yasuyuki Tsuboi[1] (1. Osaka Metropolitan Univ. (Japan))

[P26-103] Submillimeter Protein Assembly at Solution Surface by Focused Laser Beam

*Po-Wei Yi[1], Ching-Yang Lin[1], Roger Bresolí-Obach[2], Johan Hofkens[2], Hiroshi Masuhara[1] (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. Katholieke Universiteit Leuven (Belgium))

[P26-104] The Effect of Synthetic and Post-synthetic Conditions on the Luminescent Properties of $CsPbBr_3$ Nanocrystals

*Shun Omagari[1], Martin Vacha[1] (1. Tokyo Institute of Technology (Japan))

[P26-105] Formation of Ultralong Liposome Tubes by a Laser-Induced Microbubble

*Akemi Noguchi[1], Chiaki Kojima[1], Ken-ichi Yuyama[1], Yasuyuki Tsuboi[1] (1. Osaka Metropolitan Univ. (Japan))

[P26-106] Combining SRFM and AFM Techniques to Investigate the Inner Structure of Core-Shell Microgels

*Pia Lenßen[1], Rebecca Hengsbach[2], Koen Linssen[1], Ulrich Simon[2], Dominik Florian Wöll[1] (1. RWTH Aachen Univ., Institute of Physical Chemistry (Germany), 2. RWTH Aachen Univ., Institute of Inorganic Chemistry (Germany))

[P26-107] Vapochromism of Metal Complexes Based on Charge Transfer Transitions

*Shingo Hattori[1], Kazuteru Shinozaki[1] (1. Yokohama City Univ. (Japan))

[P26-108] Aggregation Effects on the Fluorescent Spectra of 2-(2'-Hydroxyphenyl)imidazo[1,2-*a*]pyridine Derivatives: Computational Study Revisited

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[P26-109] Application of Real-time TDDFT to On- and Off-resonance Near-field Raman Spectroscopy with Multipolar Hamiltonian

*Takeshi Iwasa[1,2], Masato Takenaka[1], Tetsuya Taketsugu[1] (1. Hokkaido Univ. (Japan), 2. JST-PRESTO (Japan))

[P26-110] Facile Synthesis of Spiro-Core-Based Hole-Transporting Material for High-Performance and Stable Perovskite Solar Cells

*Yan-Duo Lin[1] (1. Department of Chemistry, Soochow Univ. (Taiwan))

[P26-111] Light-Emitting Diodes of Biphenylvinylene Quinolinol Derivatives

*Tahsin J Chow[1], Ying-Ju Chang[2], Yuan Jay Chang[1] (1. Tunghai Univ. (Taiwan), 2. Academia Sinica (Taiwan))

[P26-112] Spatiotemporally-Regulated Photochromic Reaction Based on Oxygen Control Using Supramolecular Gel

*Yuki Nagai[1], Sota Fujisaki[1], Yoshinori Okayasu[1], Yoichi Kobayashi[1,2] (1. Ritsumeikan Univ. (Japan), 2. PRESTO, JST (Japan))

[P26-113] Study of Luminescent Ir(III) Acyclic Carbene Complexes: Mechanochromic and Anion Binding Properties

*Yuen Kiu Chun[1], Shun Cheung Cheng[1], Chi On Ng[1], Jingqi Han[1], Man Kit Tse[1], Shek Man Yiu[1], Chi Chiu Ko[1] (1. City Univ. of Hong Kong (Hong Kong))

[P26-114] Dynamic Mechanofluorochromism of Photochromic Molecular Crystal

*Ryo Nishimura[1], Hikaru Sotome[2], Hiroshi Miyasaka[2], Masakazu Morimoto[1] (1. Rikkyo Univ. (Japan), 2. Osaka Univ. (Japan))

[P26-115] Photoluminescence Properties of $Ca_2ZnSi_2O_7:Tb^{3+}$ Green-emitting Phosphors

*Kyeongsoon Park[1], S.Y. Gwon[1], S.H. Kim[1] (1. Sejong Univ. (Korea))

[P26-116] Photo-controlled Release of Guests from 4-styrylpyridine-coordinated Werner Clathrates

*Yuki Saito[1], Yu Song[2], Xin Zheng[1], Kiyonori Takahashi[2,3], Takayoshi Nakamura[2,3], Shin-ichiro Noro[1,2] (1. Faculty of Environmental Earth Science, Hokkaido Univ. (Japan), 2. Graduate School of Environmental Science, Hokkaido Univ. (Japan), 3. Research Institute for Electronic Science, Hokkaido Univ. (Japan))

[P26-117] Evaluation of Photostability and Photodegradation Reaction in Europium Complexes

*Yoshinori Okayasu[1], Yoichi Kobayashi[1,2] (1. Ritsumeikan Univ. (Japan), 2. PRESTO JST (Japan))

[P26-118] An Activatable Photosensitizer for Discriminative Imaging and Elimination of Gram-Positive Bacteria

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[P26-119] Photoactivation of Near-Infrared Photoluminescence in Silver Nanoclusters

*Takuya Nakashima[1,2], Wataru Ishii[1], Tsuyoshi Kawai[2] (1. Osaka Metropolitan Univ. (Japan), 2. Nara Institute of Science and Technology (Japan))

[P26-120] Polysaccharide Matrix-Induced Room-Temperature Phosphorescence of Organic Molecules

*Yi Li[1], Yi Zeng[1], Yeqin Chen[1] (1. Technical Institute of Physics and Chemistry, Chinese Academy of Sciences (China))

[P26-121] Optical Property of Blue Photoluminescence Perovskite Quantum Dots

*Akihito Fuchimoto[1], Yongge Yang[1], Hua Li[1], Yusheng Li[1], Taro Toyoda[1], Shuzi Hayase[1], Chao Ding[1], Taizo Masuda[1,2], Qing Shen[1] (1. The Univ. of Electro-Communications (Japan), 2. TOYOTA MOTOR CORPORATION (Japan))

[P26-122] Photo-Induced Solubility Change Mechanism in the Copolymers of Fluoroalkyl, Spiropyranyl and Isobornyl Methacrylates

Keun-Woo Park[1], *Minseung Kim[2], Gayoung Kim[3], Yejin Ku[4], Jin-Kyun Lee[5] (1. Inha Univ. (Korea), 2. Inha Univ. (Korea), 3. Inha Univ. (Korea), 4. Inha Univ. (Korea), 5. Inha Univ. (Korea))

[P26-123] Cancelled

[P26-124] Photocurrent Enhancement in PbS Quantum Dot Solar Cells by Engineering the Hole Transport Layer

*Yuyao Wei[1], Chao Ding[1], Guozheng Shi[1,2], Shuzi Hayase[1], Qing Shen[1] (1. The Univ. of Electro-Communications (Japan), 2. Soochow Univ. (China))

[P26-125] Synthesis of Graft Copolymer with a Polyfluorene backbone and PVDF for Synchronized Piezoelectric-luminescent Behavior

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[P26-126] Donor-acceptor Emitters for OLEDs Applications

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[P26-127] Luminescence Photoswitching in Perovskite Quantum Dots Hybridized with Photochromic Diarylethene Derivatives

*Tsuyoshi Fukaminato[1], Ashkan Mokhtar[1], Yuji Akaishi[1], Sunnam Kim[1], Daisuke Kosumi[1], Tetsuya Kida[1] (1. Kumamoto Univ. (Japan))

[P26-128] Clay Mineral and Binaphthyl Derivatives Equipped with Alkylammonium Moieties Hybrid Thin Films Exhibiting Circularly Polarized Luminescence

*Hiroki Moritomo[1], Daichi Yamashita[1], Ryo Moriguchi[1], Ren Nishiyama[1] (1. National Institute of Technology, Tsuyama College (Japan))

[P26-129] Development of High-Throughput Transient Photoluminescence Spectrometer for Thermally Activated Delayed Fluorescence Materials

*Takuya Hosokai[1,2], Minori Furukori[1,2], Yasushi Nagamune[1], Yasuo Nakayama[1,2] (1. AIST (Japan), 2. Tokyo Univ. Science (Japan))

[P26-130] Collection and Detection of Gold Nanoparticles Towards Raman Indentification of Nanoplastics in Solution Using Self-Propelled Microrobots

*Hiromori Takahashi[1], Keiko Esashika[1], Toshiharu Saiki[1] (1. Keio Univ. (Japan))

[P26-131] New Class of NIR-Emitting Rhodamine Based on π-Conjugated Topological Transformation

*Mei Harada[1], Taichi Kitamura[1], Tohru Obata[1], Shinichiro Kamino[1] (1. Aichi GAKUIN Univ. (Japan))

[P26-132] Visible Light Photochromism of Diarylethene-Perylenebisimide Dyads Having Ester and Ketone Spacer Groups

*Issei Ikariko[1], Sunnam Kim[1], Kenji Higashiguchi[2], Kenji Matsuda[2], Satoshi Yokojima[3], Tsuyoshi Fukaminato[1] (1. Kumamoto Univ. (Japan), 2. Kyoto Univ. (Japan), 3. Tokyo Univ. of Pharmacy and Life Sciences. (Japan))