

September 6 (Tues)		
	Room A	Room B
8 : 00	Registration 8:00~	
Chair		K. Matsuda (Kyoto Univ.)
9 : 00	Elsevier special symposium I: Nanoscience for Photochemistry Chair: Yasuyuki Tsuboi, Osaka City University	1B01 Emission color change into infrared region: Mechanochromism of anthryl Gold(I) isocyanide complex (Hokkaido Univ.) ○N. Tokodai • T. Seki • S. Omagari • T. Nakanishi • Y. Hasegawa • H. Ito
9 : 20	9:20-9:30 Opening Remarks Tetsu Tatsuma, The University of Tokyo 9:30-10:00	1B02 Mechanofluorochromism of mono-substituted pyrenes (Muroran Inst. Tech.) ○H. Nakano • T. Takeuchi • E. Nagata • T. Ara • S. Yoneta • S. Omagari • T. Nakanishi • Y. Hasegawa
9 : 40	1L01 Gold plasmonic photocatalysts: functionalization and application Hiroshi Kominami, Kindai University Chair: Minjoong Yoon, Chungnam National University	1B03 Development of the novel fast negative photochromic phenoxy-imidazolyl radial complex (Aoyama Gakuin Univ. • Osaka Univ.) ○K. Mutoh • Y. Kobayashi • Y. Hirao • T. Kubo • J. Abe
10 : 00	10:00-10:30 1L02 Playing with excitons: photoinduced processes in semiconductor nanostructures K. George Thomas, Indian Institute of Science Education and Research	1B04 Two-photon induced photochromism of the Fast photochromic molecule composed of positive and negative photochromic moieties (Aoyama Gakuin Univ.) ○I. Yonekawa • K. Mutoh • Y. Kobayashi • J. Abe
Chair	Chair: Syoji Ito, Osaka University	S. Kobatake (Osaka City Univ.)
10 : 20	10:30-11:00 1L03 Preparation of multinary metal chalcogenide semiconductor nanocrystals and their size and composition-dependent photochemical properties Tsukasa Torimoto, Nagoya University	1B05 Photoresponsive behavior of a diarylethene having perfluorocyclohexene ring in crystalline state (Ryukoku Univ. • Rikkyo Univ. • JASRI • TUPLS • RIKEN) ○E. Hatano • M. Morimoto • N. Yasuda • S. Yokojima • S. Nakamura • K. Uchida
10 : 40	11:00-11:30 1L04 Angle-independent structural colored materials Yukikazu Takeoka, Nagoya University	1B06 STM Investigation on highly photoresponsive 2-D molecular assembly and mixing of enantiomers at the liquid/graphite interface (Kyoto Univ.) ○N. Maeda • T. Hirose • K. Matsuda
11 : 00		1B07 Photoinduced shape change of azobenzene-based photochromic amorphous molecular materials fixed in hydrogel (Muroran Inst. Tech.) ○R. Ichikawa • H. Nakano

September 6 (Tues)			
	Room C	Room D	
	Registration 8:00~		8 : 00
	K. Nakamura (Chiba Univ.)	K. Katayama (Chuo Univ.)	Chair
	1C01 Geometry and dynamics of photoinduced electron-hole pairs in polyhexylthiophene-fullerene dyads rigidly linked by oligophenylenes (Kobe Univ. • Kyoto Univ.) ○Y. Kobori • T. Miura • R. Tao • S. Shibata • T. Umeyama • T. Tachikawa • H. Imahori	1D01 Reaction mechanism of CO photodissociation of rhenium(I) N-heterocyclic carbene tricarbonyl complexes (Tokyo Tech. • Curtin Univ. • Univ. of Bologna • AIST) ○T. Mukuta • J. Vaughan • S. Stagni • M. Massi • K. Koike • O. Ishitani • S. Koshihara • K. Onda	9 : 00
	1C02 Microscopic studies of magnetosensitive photochemistry (The Univ. Tokyo) ○L. Antill • J. Woodward	1D02 An oxygen-sensitive luminescent dysprosium(III) complex (Kyushu Univ. • Kindai Univ.) ○J. Seo • T. Matsumoto • S. Ogo • H. Nakai	9 : 20
	1C03 Dependency of spin of lanthanide electrons on ligand emission in lanthanide clusters (Hokkaido Univ.) ○S. Omagari • T. Nakanishi • Y. Kitagawa • K. Fushimi • Y. Hasegawa	1D03 Photophysical properties and regioselective effects of anionic platinum(II) complexes with extended N-heterocyclic carbenes (Hokkaido Univ.) ○T. Ogawa • M. Yoshida • A. Kobayashi • M. Kato	9 : 40
	1C04 Long-range charge transfer and transient species formation during halide exchange reaction on an organolead halide perovskite crystal (Kobe Univ.) ○I. Karimata • Y. Kobori • T. Tachikawa	1D04 The luminescence mechanism of a ternary Tb complex with hexadentate aromatic ligand and mesogenic moiety (Aoyama Gakuin Univ. • The Univ. Tokyo) ○S. Mizushima • S. Yamane • M. Mitani • J. Uchida • S. Ogata • A. Ishii • T. Kato • M. Hasegawa	10 : 00
	Y. Hasegawa (Hokkaido Univ.)	S. Yamazaki (Yamaguchi Univ.)	Chair
	1C05 O ₂ (¹ Δ _g) Quenching dynamics by free radicals and its detection utilizing electron spin polarization enhanced EPR (Tokyo Tech. • West Virginia Univ.) ○H. Takahashi • T. Tamura • M. Kato • V. Khramtsov • A. Kawai	1D05 Synthesis and photoreaction of SnO ₂ /graphene oxide nanohybrid (Okayama Univ.) R. Hirayama • ○T. Tajima • Y. Takaguchi	10 : 20
	1C06 Fluorescence bioimaging of ascorbic acid in mice: Development of a phthalocyanine-based fluorescence probe encapsulated into serum albumin (The Univ. Tokyo) ○T. Yokoi • K. Ishii	1D06 The relationship between the lattice distortion and photocatalytic activity of TiO ₂ (Nagaoka Univ. of Tech.) ○M. Nishikawa • S. Yuto • Y. Nosaka • N. Saito	10 : 40
	1C07 Template molecule of photochemically-induced crystallization of protein (Gunma Univ.) ○T. Okutsu • K. Nakamura • D. Yokoyama • H. Horiuchi	1D07 Distinction between reactive and non-reactive trap states in photocatalytic reactions revealed by transient grating technique (Chuo Univ. • Toho Univ.) ○K. Katayama • S. Kuwahara	11 : 00

11 : 20		1B08 Photochromic terarylenes with highly-sensitive cycloreversion capability and their STM investigations (Nara Inst. Sci. Tech.) ○J. Calupitan · T. Nakashima · O. Galangau · O. Guillermet · R. Coratger · G. Rapenne · T. Kawai
11 : 40	Lunch Break 11 : 40~12 : 40	
12 : 40	<p style="text-align: center;">PL01 Plenary Lecture I (12 : 40~13 : 15) The Japanese Photochemistry Association Lectureship Award (2016) Prof. Hitoshi Tamiaki (Ritsumeikan University) “Chlorophylls: photochemistry, metabolism, and synthetic application” Chair : Hiroko Yamada (Nara Institute of Science and Technology) 【Room A】</p>	
Chair		H. Takeda (Tokyo Tech)
13 : 20	Elsevier special symposium II: Photochemistry and Energy Conversion Chair: Masayuki Yagi, Niigata University	1B09 Visible light-driven water oxidation with subporphyrin sensitizer (Kyoto Univ. · Lund Univ.) ○M. Yamamoto · Y. Nishizawa · P. Chabera · V. Sundstrom · K. Tanaka · H. Imahori
13 : 40	13:20-13:30 Opening Remarks Hirosi Ishikita, University of Tokyo 13:30-14:00 2L01 Water splitting through two-electron conversion processes by earth abundant metal complexes Haruo Inoue, Tokyo Metropolitan University	1B10 Elucidation of the close relationship between photofunctional molecular dimer structure and photophysical properties using nanocarbon materials. (Kyoto Univ.) ○J. Baek · T. Umeyama · H. Imahori
14 : 00	14:00-14:30 2L02 Mechanism of photoreactions in the photosynthetic water-oxidizing enzyme, photosystem II, studied by infrared spectroscopy Takumi Noguchi, Nagoya University Chair: Malcolm Forbes, Bowling Green State University	1B11 Monitoring of the bioactivity with fluorescence emission generated by photoirradiation of caged compounds (Nara Inst. Sci. Tech.) ○S. Hikage · Y. Nishiyama · K. Kakiuchi
14 : 20	14:30-15:00 2L03 Control of film morphology, crystal structure and band energy for perovskite solar cells Eric W.-G Diau, National Chiao Tung University	1B12 Truxene and its sila- and oxa-analogues that display long-lived phosphorescence (Osaka Pref. Univ.) ○T. Ogaki · E. Ohta · Y. Oda · Y. Matsui · H. Ikeda
Chair		K. Ohkubo (Osaka Univ.)
14 : 40		1B13 Studies on diastereodifferentiating [4+2] photocycloaddition of fumarate or maleate tethered with anthracene through the excited-state complex in the triplet manifold (Osaka Univ.) ○M. Ichikawa · G. Fukuhara · Y. Inoue · T. Mori

1C08 Electrochemical modulation of emission and coloration in TiO ₂ electrode modified with luminescent Eu(III) complex and viologen derivatives (Chiba Univ.) ○K. Nakamura · K. Kanazawa · N. Kobayashi	1D08 Silicon porphyrin complexes for water oxidation catalysis (Tokyo Metro. Univ.) ○S. Remello · F. Kuttassery · T. Hirano · D. Yamamoto · S. Onuki · Y. Nabetani · H. Tachibana · H. Inoue	11 : 20
Lunch Break 11 : 40~12 : 40		11 : 40
<p style="text-align: center;">PL01 Plenary Lecture I (12 : 40~13 : 15) The Japanese Photochemistry Association Lectureship Award (2016) Prof. Hitoshi Tamiaki (Ritsumeikan University) “Chlorophylls: photochemistry, metabolism, and synthetic application “ Chair : Hiroko Yamada (Nara Institute of Science and Technology) 【Room A】</p>		12 : 40
R. Katoh (Nihon Univ.)	T. Asahi (Ehime Univ.)	Chair
1C09 Structure, electronic states and optical spectra of the TiO ₂ and TCNX surface complex (The Univ. Tokyo) ○R. Jono · T. Kondo · J. Nakazaki · H. Segawa	1D09 Conduction band edge level of titanium oxide nano-film and its activity in photocatalytic decomposition of water (Shinshu Univ.) ○H. Usami · Y. Torii	13 : 20
1C10 STM investigation of the photodissociation of dimethyl disulfide molecules on metal surfaces (RIKEN · Univ. Ulsan) ○E. Kazuma · J. Jung · Y. Kim	1D10 Factors affecting oxygen evolution through water oxidation on polycrystalline titanium dioxide (Yamaguchi Univ.) ○S. Yamazaki · Y. Nishimoto · Y. Hasegawa	13 : 40
1C11 Electron transfer processes from excited perylenediimide radical anion (Osaka Univ.) ○M. Fujitsuka · C. Lu · T. Majima	1D11 Plasmonic-heating-induced phase separation and accumulation of poly(N-isopropylacrylamide) around a single gold nanoparticle (Univ. Tokushima) ○I. Aibara · S. Mukai · S. Hashimoto	14 : 00
1C12 Highly colorless polyimides exhibiting Large stokes shifted room temperature phosphorescence (Tokyo Tech) ○K. Kanosue · S. Ando	1D12 Preparation of gold submicron particles using laser-induced agglomeration of gold nanoparticles stabilized by salts. (Shimane Univ. · AIST · Hokkaido Univ.) ○T. Tsuji · C. Asanomi · H. Adachi · Y. Ishikawa · N. Koshizaki	14 : 20
M. Fujitsuka (Osaka Univ.)	M. Sakamoto (Kyoto Univ.)	Chair
1C13 Large magnetic circular dichroism intensity of lanthanide complexes (Hokkaido Univ.) ○Y. Kitagawa · S. Wada · K. Yanagisawa · T. Nakanishi · K. Fushimi · Y. Hasegawa	1D13 Redox Reactions Based on Plasmon-Induced Charge Separation and Their Applications (The Univ. Tokyo) ○H. Nishi · M. Sakamoto · T. Tatsuma	14 : 40

15 : 00	15:00-15:30 2L04 Electrochemical regulation of photosynthetic electron transfer in living cyanobacterial cells Shuji Nakanishi, Osaka University	1B14 Photosensitized oxidative damage of tyrosinase by phosphorus(V) porphyrin complexes (Shizuoka Univ.) ○D. Ouyang · K. Hirakawa
15 : 20	Chair: Ken Ghiggino, The University of Melbourne 15:30-16:00 2L05 Novel fluorescent probes based on triaryl boron and other ICT compounds Guoqiang Yang, Chinese Academy of Sciences	1B15 Photo-reversible polymerization of thymine derivatives (Waseda Univ. · Monash Univ. · Tokyo Tech) ○A. Udagawa · K. Saito · H. Uekusa · H. Koshima · T. Asahi
15 : 40		1B16 Solid-liquid phase transition behaviors and consequent luminescence properties of aggregation-induced emission (Hokkaido Univ.) ○T. Machida · T. Oura · K. Kokado · K. Sada
Chair		H. Nakano (Muroran Inst. Tech.)
16 : 00	Elsevier Session 3L01 Navigating the world of scholarly publishing A guide to the history of scholarly publishing and practical advice on how to get published Nicolette van Dijk (Senior Publisher, Elsevier)	1B17 Direct visualization of triplet exciton diffusion in upconversion materials (Tokyo Tech) ○K. Narushima · S. Hirata · M. Vacha
16 : 20		1B18 Photon upconversion dyes system using the hetero element containing novel phthalocyanine derivative dye (NITkit · Orient Chemical Industries Co., Ltd.) ○N. Hori · Y. Yamasaki · T. Nagamura · H. Yamane
Chair	J. Fujisawa (Gunma Univ.)	H. Nakano (Muroran Inst. Tech.)
16 : 40	1A19 DFT-based molecular-orbital verification of efficient perovskite-type solar cells (Osaka Univ. · Ryukyu Univ. · NIMS · The Univ. Tokyo) ○S. Yanagida · S. Yanagisawa · M. Yanagida · H. Segawa	1B19 Photon upconverted emission based on dye-sensitized triplet-triplet annihilation in silica gel (Shinshu Univ.) ○H. Nishikiori · M. Takeshita · Y. Komatsu
17 : 00	1A20 Hot carrier dynamics in CsPbI ₃ perovskite and fast hole transfer to P3HT (Univ. Electro-Commun. · Kyushu Inst. Tech. · Miyazaki Univ.) ○Q. Shen · T. Ripolles · Y. Ogomi · K. Nishinaka · T. Izuishi · K. Katayama · T. Toyoda · K. Yoshino · S. Hayase	1B20 Low threshold triplet-triplet annihilation photon upconversion in crystalline solid fabricated by solution casting (AIST, Kwansai Gakuin Univ. · Shizuoka Univ. · Tokyo Tech) Y. Sakagami · T. Mizokuro · ○K. Kamada · Y. Fujiwara · K. Kobayashi · K. Narushima · S. Hirata · M. Vacha
Chair	J. Fujisawa (Gunma Univ.)	T. Karatsu (Chiba Univ.)
17 : 20	1A21 Pb-free Perovskite solar cells (Kyushu Int. of Tech.) S. Zhao · C. Lan · ○T. Ma	1B21 Dithienylhexatrienes: molecular arrangements and fluorescence emission properties in the crystal and thin film states (AIST · Osaka Univ.) ○Y. Sonoda · Y. Zhou · F. Sasaki · N. Tohnai

15 : 00	1C14 Reflection microspectroscopic study of L-Phenylalanine crystal growth and dissolution dynamics under laser trapping at solution surface (National Chiao Tung Univ.) ○K. Yuyama · J. Chen · T. Sugiyama · H. Masuhara	1D14 Plasmon-induced photoreaction of 4-aminothiophenol utilizing well-defined metal nanostructures (Tokyo Tech · NIMS) ○S. Kaneko · S. Kasai · K. Tsukagoshi · M. Kiguchi	15 : 00
15 : 20	1C15 Fluorescence properties of violanthrene derivatives (Nihon Univ.) ○R. Katoh	1D15 Nanopore fabrication on glass substrates using laser-gold nanoparticle interaction (Univ. of Tokushima) ○Y. Osaka · S. Sugano · S. Hashimoto	15 : 20
15 : 40	1C16 Oligosaccharide-sensing by porphyrin-curdlan conjugates in aqueous media (Osaka Univ. · Kyoto Prefectural Univ.) ○G. Fukuhara · M. Sasaki · M. Numata · T. Mori · Y. Inoue	1D16 Plasmon-induced photocurrent generation system using metal-semiconductor-metal nanostructured perfect absorber (National Chiao Tung Univ.) ○X. Shi · K. Ueno · T. Oshikiri · H. Misawa	15 : 40
Chair	N. Aratani (Nara Inst. Sci. Tech.)	T. Tsuji (Shimane Univ.)	Chair
16 : 00	1C17 Photochemistry of molecular-assembly systems probed by the cooperative fluorescence modulation (Shinshu Univ.) ○F. Ito The JPA Prize for Young Scientist (2015)	1D17 Plasmonic remote excitation of single molecule fluorescence microscopy (Hokkaido Univ. · KU Leuven) ○H. Uji-I · T. Inose · L. Su · Y. Fujita	16 : 00
16 : 20	1C18 REMPI and IR dip spectroscopy of Histidine containing dipeptides by laser desorption supersonic jet technique (Chuo Univ. · CEA · CNRS) ○W. Sohn · M. Mons · E. Gloaguen	1D18 Environmentally friendly method to prepare flexible SERS substrates on PDMS (Hokkaido Univ. · KU Leuven) ○T. Inose · B. Fortuni · H. Uji-I	16 : 20
Chair	N. Aratani (Nara Inst. Sci. Tech.)	T. Tsuji (Shimane Univ.)	Chair
16 : 40	1C19 Photoinduced charge separation in supramolecular complexes composed of lithium Ion-encapsulated fullerene and peptide porphyrinic arrays (Osaka Univ. · Univ. Toulouse · Meijo Univ. · SENTAN, JST) ○K. Ohkubo · T. Hasegawa · N. Solladie · S. Fukuzumi	1D19 Control of morphology and optical properties of silver nanocubes based on plasmon-induced charge separation (The Univ. Tokyo) ○K. Saito · I. Tanabe · T. Tatsuma	16 : 40
17 : 00	1C20 Energy-resolved measurement of electron-trap density toward identification and evaluation of metal oxide particles (Hokkaido Univ. · Muroran Inst. of Tech. · Kyushu Inst. of Tech.) ○A. Nitta · M. Takase · M. Takashima · N. Murakami · B. Ohtani	1D20 Photochemical synthesis and optical properties of nanoparticles (Kyoto Univ.) ○M. Sakamoto The JPA Prize for Young Scientist (2015)	17 : 00
Chair	F. Ito (Shinshu Univ.)	S. Kaneko (Tokyo Tech)	Chair
17 : 20	1C21 The excitation energy transfer mechanism of hybrid photosynthetic antenna complex system (Osaka Univ. · Nagoya Inst. Tech. · Osaka City Univ. · Ritsumeikan Univ.) ○Y. Yoneda · H. Miyasaka · N. Mizutani · D. Mori · T. Noji · M. Kondo · S. Itoh · T. Dewa · Y. Nagasawa	1D21 Single nanoparticle study on photopolymerization dynamics of 1,6-Di-(carbazolyl)-2,4-hexadiyne nanocrystals using a dark-field optical microspectroscopy setup (Ehime Univ. · Tohoku Univ.) ○T. Asahi · T. Uemitsu · T. Onodera · H. Oikawa	17 : 20

17 : 40	1A22 The study of stable measurement method for Perovskite photovoltaic cells. (KAST) ○H. Saito • D. Aoki • S. Magaino • K. Takagi	1B22 Application of NO photodissociation to control structures and functions of proteins (Tohoku Univ.) I. Sato • T. Kurota • H. Hiramatsu • ○T. Nakabayashi
18 : 00		1B23 Investigation on energy migration by using DNA scaffold (Nagoya Univ. • Tohoku Univ.) ○H. Kashida • R. Maruyama • H. Kawai • Y. Araki • T. Wada • H. Asanuma
18 : 20	Poster Presentation (106) 100min Odd number (18 : 20 ~ 19 : 10) Even number (19 : 10 ~ 20 : 00)	

	1C22 Visible-light-driven CO ₂ reduction by a hybrid photocatalyst consisting of a Ru(II) binuclear complex and a TaON semiconductor in aqueous solutions (Tokyo Tech) ○A. Nakada • T. Nakashima • K. Maeda • O. Ishitani	1D22 Stability of Ag nanoparticles in photochemical devices: oxidation and diffusion of silver ions (SPIJ • Tokyo Polytechnic Univ.) ○T. Tani • R. Kan • Y. Yamano • T. Uchida	17 : 40
	1C23 Solar-to-hydrogen peroxide conversion by carbon nitride-aromatic diimide-graphene hybrid photocatalysts (Osaka Univ. • JST PRESTO) ○Y. Kofuji • Y. Isobe • Y. Shiraishi • T. Hirai	1D23 Utilization of quantum dots for controlled photoreactions (Hokkaido Univ.) ○R. Kohara • V. Biju	18 : 00
	Poster Presentation (106) 100min Odd number (18 : 20 ~ 19 : 10) Even number r (19 : 10 ~ 20 : 00)		18 : 20