

JULY 25 TUE

ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Kei Murakoshi and Hiang Kwee Lee</p>			
<p>9:00 AM - 9:45 AM [PL05] Plasmon Induced Hot Electron Transfer to Semiconductor and Molecular Acceptors *Tim Lian¹ (1. Emory Univ. (USA))</p>			
<p>Chair : Kei Murakoshi and Hiang Kwee Lee</p>			
<p>9:45 AM - 10:30 AM [PL06] Photophysics and Photochemistry of Individual Plasmonic Nanostructures *Stephan Link¹ (1. Rice Univ. (USA))</p>			
BREAK		BREAK	
<p>Chair : Yasuhiro Kobori</p>	<p>Chair : Anunay Samanta</p>	<p>Chair : Kohei Imura</p>	<p>Chair : Asano Motoko</p>
<p>11:00 AM - 11:20 AM [S1-22-IL] Adaptive Down- and Up-Conversion *Dirk M Guldi¹ (1. Univ. of Erlangen (Germany))</p>	<p>11:00 AM - 11:15 AM [S2-20-CL] The Femtosecond Photo-Physics of 2-Cyanoindole — a Promising Probe of Protein Hydration *Mahbobeh Morshedi¹, Oliver Nolden¹, Philipp Janke¹, Michael Schmitt¹, Peter Gilch¹ (1. HHU Düsseldorf (Germany))</p>	<p>11:00 AM - 11:15 AM [S3-20-CL] Resolving ultrafast energy transfer in a fluorophore-functionalized gold nanocluster in atomistic detail Kyonglim Pyo¹, Maria F. Matus², *Tatu Kumpulainen¹, Hannu Häkkinen¹, Mika Pettersson¹ (1. Department of Chemistry, Univ. of Jyväskylä (Finland), 2. Department of Physics, Univ. of Jyväskylä (Finland))</p>	<p>11:00 AM - 11:20 AM [S4-21-IL] Bioluminescent probes, a novel platform for disease diagnosis *Guoqiang Yang¹ (1. Univ. of Chinese Academy of Sciences/Institute of Chemistry, Chinese Academy of Sciences (China))</p>
<p>Chair : Yasuhiro Kobori</p>	<p>Chair : Anunay Samanta</p>	<p>Chair : Kohei Imura</p>	<p>Chair : Asano Motoko</p>
<p>11:20 AM - 11:35 AM [S1-23-CL] Self-assembly of out-of-equilibrium artificial light-harvesting complexes Maxim S. Pshenichnikov¹, *Sundar Raj Krishnaswamy¹, Björn Kriete¹, Mar- ick Manrho¹, Ilias Patmanidis^{2,3}, Alex H. de Vries², Marc C. A. Stuart², Siewert J. Marrink², Jasper Knoester^{1,4}, Thomas L.C. Jansen¹ (1. Univ. of Groningen (Netherlands), 2. Univ. of Groningen (Netherlands), 3. Aarhus Univ. (Denmark), 4. Leiden Univ. (Netherlands))</p>	<p>11:15 AM - 11:30 AM [S2-21-CL] Vibrational energy transfer between carbon nanotubes observed by ultrashort visible pulse laser *Atsushi Yabushita^{1,2}, Nishant Kumar Pathak³, Yui Konno⁴, Ying Kuan Ko¹, Yutaka Maeda⁴, Takayoshi Kobayashi¹, Bhaskar Kanseri³ (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. Kanagawa Univ. (Japan), 3. Indian Inst. Tech. Delhi (India), 4. Tokyo Gakugei Univ. (Japan))</p>	<p>11:15 AM - 11:30 AM [S3-21-CL] Importance of chemical structure in plasmon catalysis – mechanistic aspects *Olga Guselnikova^{1,2}, Sylvain Marque³, Pavel Postnikov², Joel Henzie¹, Yusuke Yamauchi⁴ (1. National Institute for Materials Science (Japan), 2. Tomsk Polytechnic Univeristy (Russia), 3. Aix-Marseille Univ. (France), 4. The Univ. of Queensland (Australia))</p>	<p>11:20 AM - 11:35 AM [S4-22-CL] Photodynamic therapy combined with immunotherapy: new possibilities for the treatment of immunogenic cancers *Janusz M. Dabrowski¹ (1. Faculty of Chemistry, Jagiellonian Univ. (Poland))</p>

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ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Yasuhiro Kobori</p>	<p>Chair : Anunay Samanta</p>	<p>Chair : Kohei Imura</p>	<p>Chair : Asano Motoko</p>
<p>11:35 AM - 11:50 AM [S1-24-CL] Enhancing upconversion efficiency by fluorescence dopant approach for PbS quantum dot-sensitized NIR TTA-UC system with anthradithiophene transmitter/annihilator in solid state *Neeti Tripathi¹, Kenji Kamada¹ (1. NMRI, National Institute of Advanced Industrial Science and Technology (Japan))</p> <p>Chair : Yasuhiro Kobori</p> <p>11:50 AM - 12:05 PM [S1-25-CL] Deciphering charge dynamics of oxysulphide photocatalyst: Impact of heterogenous Sc doping *Vikas Nandal¹, Ryota Shoji¹, Hiroyuki Matsuzaki¹, Hiroaki Yoshida⁴, Zhenhua Pan³, Lihua Lin³, Takashi Hisatomi³, Kazunari Domen³, Akihiro Furube², Kazuhiko Seki¹ (1. AIST (Japan), 2. Tokushima Univ. (Japan), 3. Shinshu Univ. (Japan), 4. Mitsubishi Chemical Corporation (Japan))</p>	<p>11:30 AM - 11:55 AM [S2-22-KL] Chemical Dynamics of Nonvalence-Bound State of the Molecule Anions *Sang Kyu Kim¹ (1. KAIST (Korea))</p>	<p>11:30 AM - 11:45 AM [S3-22-CL] Chiral Plasmonic Nanoprisms Created by Circular Polarized Light *Tsumugi Miyashita¹, Tian Qiao¹, MingLee Tang¹ (1. Univ. of Utah (USA))</p> <p>Chair : Kohei Imura</p> <p>11:45 AM - 12:00 PM [S3-23-CL] Cancelled</p>	<p>11:35 AM - 11:55 AM [S4-23-IL] <i>In vivo</i> oxygen sensing of pancreatic tissues based on phosphorescence lifetime imaging microscopy *Toshitada Yoshihara¹ (1. Division of Molecular Science, Graduate School of Science and Technology, Gunma Univ. (Japan))</p> <p>Chair : Asano Motoko</p> <p>11:55 AM - 12:15 PM [S4-24-IL] Regulation of therapeutic cell kinetics by ligand modification to cell membranes *Yuriko Higuchi¹ (1. Kyoto Univ. (Japan))</p>
<p>LUNCH BREAK</p>		<p>LUNCH BREAK</p>	
<p>Chair : Dirk M. Guldi and Hiroshi Ikeda</p> <p>1:30 PM - 1:50 PM [S1-26-IL] Designing Molecular Scaffolds for Evaluating New Excited State Photochemical Reactivity *Jayaraman Sivaguru¹ (1. Bowling Green State Univ. / Center for Photochemical Sciences (USA))</p> <p>Chair : Dirk M. Guldi and Hiroshi Ikeda</p> <p>1:50 PM - 2:05 PM [S1-27-CL] From Ultrafast to Slow Dynamics in Novel Battery Electrolytes with Time-Resolved Infrared Spectroscopy: Multidimensional and Transient IR Study *Bogdan Dereka¹ (1. Univ. of Zurich (Switzerland))</p>	<p>Chair : Dongho Kim and Akihiro Furube</p> <p>1:30 PM - 1:50 PM [S2-23-IL] Spin angular momentum and topological property of femtosecond structured surface plasmon polariton *Atsushi Kubo¹ (1. Univ. of Tsukuba (Japan))</p> <p>Chair : Dongho Kim and Akihiro Furube</p> <p>1:50 PM - 2:05 PM [S2-24-CL] Enhancing the Efficiency of Solar cells through Photochemical Upconversion *Elham Gholizadeh¹ (1. Univ. of Melbourne (Australia))</p>	<p>Chair : Christy Landes and Jino George</p> <p>1:30 PM - 1:50 PM [S3-24-IL] <i>Polaritronics</i>: Controlling Electron/Energy Transport by Strong Light-Matter Coupling *Jino George¹ (1. Indian Institute of Science Education and Research Mohali (IISER Mohali) (India))</p> <p>Chair : Christy Landes and Jino George</p> <p>1:50 PM - 2:05 PM [S3-25-CL] Control of photochemical processes using visible and infrared Purcell effects *Kosei Ueno¹, Hiroki Takeuchi¹, Shimba Ushikoshi¹, Keisuke Imaeda¹, Sou Ryuzaki¹ (1. Hokkaido Univ. (Japan))</p>	<p>Chair : Toshitada Yoshihara and Guoqiang Yang</p> <p>1:30 PM - 1:45 PM [S4-25-CL] Specific dissociations following core excitation of the peptide model molecules *Chen-Lin Liu¹ (1. National Synchrotron Radiation Research Center (Taiwan))</p> <p>Chair : Toshitada Yoshihara and Guoqiang Yang</p> <p>1:45 PM - 2:00 PM [S4-26-CL] Flavins as photosensitizer of singlet oxygen and potential redox-sensitive agent *Marek Sikorski¹, Anna Golczak¹, Gotard Burdzinski¹, Radek Cibulka², Lucyna Mrowczynska¹, Jacek Lukasz Kolanowski³ (1. Adam Mickiewicz Univ. (Poland), 2. Univ. of Chemistry and Technology, Prague (Czech Republic), 3. Institute of Bioorganic Chemistry, Polish Academy of Sciences (Poland))</p>

JULY 25 TUE

ROOM A

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:05 PM - 2:20 PM

[S1-28-CL] Performance Improvement of Randomly-Interleaved-Pulse-Train (RIPT) method for transient absorption: Its applications and new capabilities

*Tatsuo Nakagawa¹, Ryuzi Katoh²
(1. Unisoku Co., Ltd. (Japan), 2. Nihon Univ. (Japan))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:20 PM - 2:35 PM

[S1-29-CL] Intramolecular Charge Transfer in Fluoranthene Derivatives

*Sanchari Debnath¹, Aisworika Mohanty², Praveen Naik¹, Ulrike Salzner³, Jyotishman Dasgupta², Satish Patil¹ (1. Indian Institute of Science, Bengaluru (India), 2. Tata Institute of Fundamental Research, Mumbai (India), 3. Bilkent Univ., Ankara (Turkey))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:35 PM - 2:50 PM

[S1-30-CL] Tuning the emission and reactivity in cobalt(III) complexes by amino groups

*Athul Krishna¹, Lorena Fritsch¹, Miguel Arguello Cordero², Stefan Lochbrunner², Matthias Bauer¹ (1. Univ. of Paderborn (Germany), 2. Univ. of Rostock (Germany))

Chair : Dirk M. Guldi and Hiroshi Ikeda

2:50 PM - 3:05 PM

[S1-31-CL] Excitons' Diffusion Lengths: A Discussion of Approaches

*Catherine Suenne Pursglove De Castro¹, Wenchao Yang¹, Safakath Karutedath¹, Julien Gorenflot¹, Nisreen Alsehri¹, Si Chen¹, Yuliar Firdaus¹, Diego Villalva¹, Thomas Anthopoulos¹, Derya Baran¹, Frédéric Laquai¹ (1. KAUST (Saudi Arabia))

ROOM B

Chair : Dongho Kim and Akihiro Furube

2:05 PM - 2:20 PM

[S2-25-CL] Excited-state wavepacket dynamics of peryleneimide stacks

*Taeyeon Kim¹ (1. Sungkyunkwan Univ. (Korea))

Chair : Dongho Kim and Akihiro Furube

2:20 PM - 2:35 PM

[S2-26-CL] Enantioselective control of polymorphic transition via femtosecond pulsed laser irradiation

*Shun-Fa Wang^{1,2}, Teruki Sugiyama^{1,3} (1. National Yang Ming Chiao Tung Univ. (Taiwan), 2. National Taitung Univ. (Taiwan), 3. Nara Institute of Science and Technology (Japan))

Chair : Dongho Kim and Akihiro Furube

2:35 PM - 2:50 PM

[S2-27-CL] Joint Experimental and Theoretical Investigation of Excited State Vibrational Coherences in Mn Single Molecule Magnets

*Julien Eng¹, Kyle Barlow², Euan Brechin², Olof Johansson², Thomas Penfold¹ (1. Chemistry - SNES, Newcastle Univ. (UK), 2. EaStCHEM - School of Chemistry, Univ. of Edinburgh (UK))

Chair : Dongho Kim and Akihiro Furube

2:50 PM - 3:05 PM

[S2-28-CL] Efficiencies of Eu³⁺ to Eu²⁺ by Focused Laser Pulses; Filamentation Conditions by Femtosecond, Two Photon Excitation by Nanosecond Pulses

*Nobuaki Nakashima^{1,2}, Shohei Matsuda², Tomoyuki Yatsushashi¹ (1. Osaka Metropolitan Univ. (Japan), 2. Institute for Laser Technology (Japan))

ROOM C

Chair : Christy Landes and Jino George

2:05 PM - 2:20 PM

[S3-26-CL] Synthesis and surface-enhanced Raman scattering of crystal-controlled gold nanoparticle monomers and dimers

*Yukie Yokota¹, Mayu Yamamoto¹, Shuto Hirai¹, Asuka Fujita¹, Hiroshi Uchida¹ (1. Sophia Univ. (Japan))

Chair : Christy Landes and Jino George

2:20 PM - 2:35 PM

[S3-27-CL] Photoinduced Electron Dynamics of Nanomaterials Revealed by First-Principles Computational Method

*Kenji Iida¹, Takashi Takeuchi², Masashi Noda³ (1. Institute for Catalysis, Hokkaido Univ. (Japan), 2. Metamaterials Laboratory, RIKEN Cluster for Pioneering Research (Japan), 3. Center for Computational Sciences, Univ. of Tsukuba (Japan))

Chair : Christy Landes and Jino George

2:35 PM - 2:50 PM

[S3-28-CL] Heteroepitaxial junction-induced faceted gold nanoparticle-loaded radial titanium (IV) oxide heteromesocrystal type plasmonic photocatalyst

*Shin-ichi Naya¹, Ryota Kojima², Hisashi Sugime², Hiroaki Tada² (1. Env. Res. Lab., Kindai Univ (Japan), 2. Grad. Sch. Sci. and Engin., Kindai Univ. (Japan))

Chair : Christy Landes and Jino George

2:50 PM - 3:05 PM

[S3-29-CL] Investigations of Electric Double Layer Capacitance under Localized Surface Plasmon Excitation

*Hiro Minamimoto¹, Futa Shiga¹, Hiroki Ohnishi¹, Minoru Mizuhata¹ (1. Kobe Univ. (Japan))

ROOM D

Chair : Toshitada Yoshihara and Guoqiang Yang

2:00 PM - 2:15 PM

[S4-27-CL] Reversibility in Photochemistry: Beyond Photoisomerization

*Tomas Slanina¹ (1. IOCB Prague (Czech Republic))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:15 PM - 2:30 PM

[S4-28-CL] Electroabsorption and stark fluorescence spectroscopies of a fluorescent marker of amyloid fibrils: a case study on thioflavin T

*Toshifumi Iimori¹, Ahatashamul Islam¹, Yudai Kikuchi¹ (1. Muroran Institute of Technology (Japan))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:30 PM - 2:45 PM

[S4-29-CL] Acceleration of Pseudo Triplet-Triplet Energy Transfer Rates in Porphyrin Dyads Involving an Unpaired Electron

*Motoko S. Asano¹, Ken Kobori¹, Hiroaki Hanada², Tatsuo Nakagawa² (1. Gunma Univ. (Japan), 2. Unisoku Co., Ltd. (Japan))

Chair : Toshitada Yoshihara and Guoqiang Yang

2:45 PM - 3:00 PM

[S4-04-CL] Sulfonylthioated-BODIPYs for Effective H₂Sn Release and Orthogonal Thiol Labeling.

*Lucie Wohlrábová¹ (1. IOCB Prague (Czech Republic))

[S4-30-IL] Cancelled

JULY 25 TUE

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<p>Chair : Dirk M. Guldi and Hiroshi Ikeda</p>	<p>Chair : Dongho Kim and Akihiro Furube</p>	<p>Chair : Christy Landes and Jino George</p>	<p>Chair : Mio Kondo</p>
<p>3:05 PM - 3:25 PM [S1-32-IL] Key conformation dynamics for light-induced energy conversions: Transient EPR study *Yasuhiro Kobori¹ (1. Kobe Univ. (Japan))</p>	<p>3:05 PM - 3:25 PM [S2-29-IL] Infrared perturbation of photoinduced electron transfer in transition metal chromophores Guanzhi Wu¹, Martin V. Appleby¹, Iona I. Ivalo¹, Rory A. Cowin¹, Alexander Auty¹, Catherine E. Royle¹, Tao Cheng¹, Ricardo Fernandez-Teran¹, James D. Shipp¹, Dimitri Chekulaev¹, Igor V. Sazanovich², *Julia A. Weinstein¹ (1. Univ. of Sheffield (UK), 2. CLF, STFC (UK))</p>	<p>3:05 PM - 3:25 PM [S3-30-IL] Plasmonic-polymer hybrid nanomaterials for light harvesting *Christy Landes¹ (1. Rice Univ. (USA))</p>	<p>3:10 PM - 3:30 PM [S5-01-IL] Carborane derivative of perylene diimide for inverted perovskite solar cells with photo- and thermal stabilities *Won-Sik Han¹, Sunhee Lee¹, Jin Hyuck Heo², Sang Hyuk Im² (1. Seoul Women's Univ. (Korea), 2. Korea Univ. (Korea))</p>
<p>BREAK</p>		<p>BREAK</p>	
<p>Chair : Jayaraman Sivaguru</p> <p>4:00 PM - 4:20 PM [S1-33-IL] A possible explanation for the Cope rearrangement observed in the photosensitized reaction of diarylhexadiene using a TADF material *Hiroshi Ikeda¹ (1. Osaka Metropolitan Univ. (Japan))</p> <p>Chair : Jayaraman Sivaguru</p> <p>4:20 PM - 4:35 PM [S1-34-CL] Symmetry-breaking triplet excited state allowing enhanced red afterglow room-temperature phosphorescence *Bahadur Sk¹, Shuzo Hirata¹ (1. The Univ. of Electro-Communications (Japan))</p>	<p>Chair : Julia A. Weinstein</p> <p>4:00 PM - 4:15 PM [S2-30-CL] Triple phosphorescence. Electron transfer, intersystem crossing and adiabatic triplet photodissociation in spirocyclic donor-acceptor geometry *Jerzy Karpiuk¹, Elena Karpiuk¹ (1. Institute of Physics Polish Academy of Sciences (Poland))</p> <p>Chair : Julia A. Weinstein</p> <p>4:15 PM - 4:35 PM [S2-31-IL] Mechanism of photo-switchable proteins revealed by the synergy of time-resolved optical spectroscopy and crystallography *Michel Sliwa¹, Jacques-Philippe Colletier², Martin Weik² (1. CNRS, Univ. Lille (France), 2. CEA, CNRS, Univ. Grenoble Alpes (France))</p>	<p>Chair : James Hutchison</p> <p>4:00 PM - 4:15 PM [S3-31-CL] Mapping room-temperature polaron dynamics in double-perovskite nano-crystals by time-resolved impulsive stimulated Raman spectroscopy Amit Kumar¹, *Sakshi Chawla¹, Arijit K De¹ (1. Dept of Chemical Sciences, IISER Mohali (India))</p> <p>Chair : James Hutchison</p> <p>4:15 PM - 4:30 PM [S3-32-CL] Defect-induced Photoluminescence Enhancement in Single-Layer Graphene and Implication to Galactic Extended Red Emission *Yu-Jong Wu^{1,2}, Sheng-Lung Chou¹, Shu-Yu Lin², Tzu-Ping Huang¹, Meng-Yeh Lin¹, Yin-Yu Lee¹, Yuan-Pern Lee^{2,3} (1. National Synchrotron Radiation Research Center (Taiwan), 2. Department of Applied Chemistry and Institute for Molecular Science, National Yang Ming Chiao Tung Univ. (Taiwan), 3. Center for Emergent Functional Matter Science, National Yang Ming Chiao Tung Univ. (Taiwan))</p>	<p>Chair : Mio Kondo</p> <p>4:00 PM - 4:20 PM [S5-02-IL] Thermal Photocatalytic Dry Reforming of CH₄ and CO₂ using Ag-CrO₂ *Minoo Tasbihi¹, Sunil Kwon¹, Nguyen Anh Dung¹, Reinhard Schomäcker¹ (1. Technical Univ. of Berlin (Germany))</p> <p>Chair : Mio Kondo</p> <p>4:20 PM - 4:35 PM [S5-03-CL] Photon Upconversion in Aqueous Systems *Tatsuto Yui¹, Hibiki Umezawa¹, Tomoaki Miura¹, Tadaaki Ikoma¹ (1. Niigata Univ. (Japan))</p>

JULY 25 TUE

ROOM A

Chair : Jayaraman Sivaguru

4:35 PM - 4:50 PM

[S1-35-CL] Experimental Evidence of Chloride-Induced Trap Passivation in Lead Halide Perovskites through Single Particle Blinking Studies Handong Jin¹, Amitrajit Mukherjee¹, Johan Hofkens^{1,2}, *Elke Debroye¹ (1. KU Leuven (Belgium), 2. MPIP Mainz (Germany))

ROOM B

ROOM C

Chair : James Hutchison

4:30 PM - 4:45 PM

[S3-33-CL] cancelled

ROOM D

Chair : Mio Kondo

4:35 PM - 4:50 PM

[S5-04-CL] Tantalum nitride-enabled solar water splitting with efficiency above 10% *Yuriy Pihosh¹, Vikas Nandal², Tomohiro Higashi³, Kazuhiko Seki², Kazunari Domen^{1,4} (1. The Univ. of Tokyo (Japan), 2. National Institute of Advanced Industrial Science and Technology (Japan), 3. Institute for Tenure Track Promotion (Japan), 4. Shinshu Univ. (Japan))