

JULY 27 THU

ROOM A	ROOM B	ROOM C	ROOM D
<p>Chair : Akihiko Kudo and Tetsuya Taketsugu</p> <p>9:00 AM - 9:45 AM [PL09] Supramolecular Architectures for Artificial Photosynthesis: The Quantasome Vision *Bonchio Marcella¹ (1. Univ. of Padova (Italy))</p> <p>Chair : Akihiko Kudo and Tetsuya Taketsugu</p> <p>9:45 AM - 10:30 AM [PL10] Comparative Quantum-Classical Dynamics of Natural and Synthetic Molecular Rotors Reveals the Determinants of Photoisomerization Quantum Efficiency *Massimo Olivucci¹ (1. Univ. of Sienna, Italy & Bowling Green State Univ., USA (Italy))</p>			
BREAK		BREAK	
<p>Chair : Kei Ohkubo</p> <p>11:00 AM - 11:25 AM [S9-09-KL] Dynamic Exciton: Fundamental and Applications *Hiroshi Imahori¹ (1. Kyoto Univ. (Japan))</p> <p>Chair : Kei Ohkubo</p> <p>11:25 AM - 11:40 AM [S9-10-CL] Toward photoinduced reversible switching of charge mobility in the solid state *Chiara Taticchi^{1,2}, Federico Nicoli^{1,2}, Mattia Zangoli², Serena Silvi^{1,2}, Alberto Credi^{1,2}, Francesca Di Maria², Massimo Baroncini^{1,2} (1. Univ. of Bologna (Italy), 2. Istituto ISOF-CNR (Italy))</p>	<p>Chair : Ryu Abe</p> <p>11:00 AM - 11:20 AM [S5-16-IL] Manipulation of Charge Transportation in Oxide Photocatalysts for Solar Fuels Production *Yun Hau Ng¹ (1. City Univ. of Hong Kong (Hong Kong))</p> <p>Chair : Ryu Abe</p> <p>11:20 AM - 11:35 AM [S5-17-CL] Efficient green hydrogen production by a customized double-junction GaAs photovoltaic device and a water splitting electrolyzer *Masayuki Yagi¹, Zaki N. Zahran¹, Yugo Miseki², Yuta Tsubonouchi¹, Kikuo Makita², Takeyoshi Sugaya², Kazuhiro Sayama² (1. Niigata Univ. (Japan), 2. National Institute of Advanced Industrial Science and Technology (Japan))</p>	<p>Chair : Vaidhyanathan Ramamurthy</p> <p>11:00 AM - 11:15 AM [S6-10-CL] Protein photodamaging mechanism by hydrophobic and cationic porphyrins and phthalocyanines *Kazutaka Hirakawa¹, Takahisa Ikeue², Shigetoshi Okazaki³ (1. Shizuoka Univ. (Japan), 2. Shimane Univ. (Japan), 3. Hamamatsu Univ. School of Medicine (Japan))</p> <p>Chair : Vaidhyanathan Ramamurthy</p> <p>11:15 AM - 11:30 AM [S6-11-CL] Visible-light driven photocatalytic CO₂ reduction promoted by organic photosensitizers and a Mn(II) catalyst *Yusuke Tamaki¹, Elena Bassan², Rei Inoue¹, Francesco Calogero², Pier Giorgio Cozzi², Paola Ceroni², Osamu Ishitani^{1,3} (1. Tokyo Tech. (Japan), 2. Univ. Bologna (Italy), 3. Hiroshima Univ. (Japan))</p>	<p>Chair : Martin Vacha</p> <p>11:00 AM - 11:20 AM [S7-15-IL] Cooperative optical trapping dynamics of protein at solution interface *Hiroshi Masuhara¹ (1. National Yang Ming Chiao Tung Univ. (Taiwan))</p> <p>Chair : Martin Vacha</p> <p>11:20 AM - 11:35 AM [S7-16-CL] Unraveling Structural Dynamics of G-quadruplex DNA Labeled with Single Cyanine Dye Using Single-Molecule Spectroscopy *Chao-Han Cheng¹, Chih-Chieh Ko¹, Yong-Zhan Hong¹ (1. National Pingtung Univ. (Taiwan))</p>

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ROOM A

Chair : Kei Ohkubo

11:40 AM - 11:55 AM

[S9-11-CL] Optimizing Charge Transfer-Mediated Intersystem Crossing in Triplet Sensitizers for Application in Photopolymerizable Materials

*Mikhail Filatov¹ (1. Technological Univ. Dublin (Ireland))

Chair : Kei Ohkubo

11:55 AM - 12:10 PM

[S9-12-CL] Enhanced luminescence and thermal stability of Eu(III) hybrid material linked by tetramethylammonium acetate

*Ziying Li¹, Kazuki Nakamura¹, Norihisa Kobayashi¹ (1. Chiba Univ. (Japan))

ROOM B

Chair : Ryu Abe

11:35 AM - 11:50 AM

[S5-18-CL] Ultrafast spectroscopy for understanding CO₂ reduction mechanisms of photosensitizer-catalyst dyad molecular systems

*Kiyoshi Miyata¹, Yuushi Shimoda¹, Kei Kamogawa², Yasuomi Yamazaki³, Yusuke Tamaki⁴, Osamu Ishitani^{2,5}, Takumi Ehara¹, Teruyuki Honda¹, Ren Sato⁶, Yusuke Kuramochi⁶, Akiharu Satake⁶, Ken Onda¹ (1. Kyushu Univ. (Japan), 2. Tokyo Institute of Technology (Japan), 3. The Univ. of Tokyo (Japan), 4. National Institute of Advanced Industrial Science and Technology (Japan), 5. Hiroshima Univ. (Japan), 6. Tokyo Univ. of Science (Japan))

Chair : Ryu Abe

11:50 AM - 12:15 PM

[S5-19-KL] Visible light induced two-electron water splitting into H₂/H₂O₂ in molecular catalyst sensitized system

*Haruo Inoue¹ (1. Tokyo Metropolitan Univ. (Japan))

ROOM C

Chair : Vaidhyanathan Ramamurthy

11:30 AM - 11:45 AM

[S6-12-CL] Compartmentalization and light harvesting for artificial photosynthesis

*Roland Nau¹, Julian Bösking¹, Andrea Pannwitz¹ (1. Univ. of Ulm (Germany))

ROOM D

Chair : Martin Vacha

11:35 AM - 11:50 AM

[S7-17-CL] Similar, yet so different - silver nanoclusters on similar bifunctional DNA strands exhibit different optical properties

*Patrycja Filipczuk¹, Anna Dembska¹ (1. Bioanalytical Chemistry Department, Faculty of Chemistry, Adam Mickiewicz Univ. (Poland))

Chair : Martin Vacha

11:50 AM - 12:10 PM

[S7-18-IL] Blinking in perovskites: friend or foe?

*Johan Hofkens^{1,2,3,4}, Elke Debroye¹, Maarten Roeloffs¹, Bapi Pradhan¹, sudipta Seth¹, Boris Louis¹, Lata Chouhan¹, Amitrajit Amitrajit¹ (1. KULeuven (Belgium), 2. MPIP Mainz (Germany), 3. Zhejiang Univ. (China), 4. Jiangnan Univ. (China))