

# Poster Presentation Program

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## P1 Artificial Photosynthetic Systems Including Water-Oxidation, H<sub>2</sub> Production, and CO<sub>2</sub> Reduction

- P1-01 Photocathodes for Photocatalytic Hydrogen Generation Using a Molecular Cobalt Catalyst and a Push-Pull Dye  
Kelly L. Materna, Reiner Lomoth, Anders Thapper, Sascha Ott, Haining Tian, Leif Hammarström  
*Uppsala Univ.*
- P1-02 Photoelectrochemical CO<sub>2</sub> Reduction in Water Using *Poly*-Pyrrole Based Ruthenium Supramolecular Photocathodes  
Fazalurahman Kuttassery<sup>1</sup>, Ryutaro Kamata<sup>1</sup>, Hiromu Kumagai<sup>2</sup>, Osamu Ishitani<sup>1</sup>,  
<sup>1</sup>*Tokyo Tech*, <sup>2</sup>*Tohoku Univ.*
- P1-03 Accelerated Discovery of Organic Polymer Photocatalysts for Hydrogen Evolution from Water through the Integration of Experiment and Theory  
Yang Bai<sup>1</sup>, Lian Wilbraham<sup>2</sup>, Benjamin J. Slater<sup>1</sup>, Martijn A Zwijnenburg<sup>2</sup>, Reiner Sebastian Sprick<sup>1</sup>, Andrew I. Cooper<sup>1</sup>  
<sup>1</sup>*Univ. Liverpool*, <sup>2</sup>*Univ. College London*
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*Hokkaido Univ.*
- P1-05 Covalent Dye-Catalyst Assemblies for H<sub>2</sub>-Evolving Dye-Sensitized Photocathodes: Improved Performance and Transient Absorption Spectroelectrochemistry  
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<sup>1</sup>*Univ. Grenoble Alpes*, <sup>2</sup>*Leibniz Inst. Photon. Tech.*
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<sup>1</sup>*Univ. Grenoble Alpes*, <sup>2</sup>*PHELIQS*
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*Henan Univ.*
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<sup>1</sup>*Kyushu Inst. Tech.*, <sup>2</sup>*Tokyo Univ. Sci.*
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*Tokyo Univ. Sci.*

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<sup>1</sup>*Kao Corp.*, <sup>2</sup>*Kwansei Gakuin Univ.*, <sup>3</sup>*Osaka City Univ.*
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<sup>1</sup>*Uppsala Univ.*, <sup>2</sup>*Albert-Ludwigs-Univ. Freiburg*
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<sup>1</sup>*Univ. Crete*, <sup>2</sup>*Chin. Acad. Sci.*
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*Uppsala Univ.*
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<sup>1</sup>*Univ. Sci. Tech. Hanoi*, <sup>2</sup>*Univ. Grenoble Alpes*
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<sup>1</sup>*Leiden Inst. Chem.*, <sup>2</sup>*Teclis-Scientific*, <sup>3</sup>*Uppsala Univ.*
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<sup>1</sup>*Univ. Tokyo*, <sup>2</sup>*Tokyo Univ. Tech.*, <sup>3</sup>*Osaka City Univ.*, <sup>4</sup>*Tokyo Univ. Sci.*, <sup>5</sup>*Kitasato Univ.*, <sup>6</sup>*Inst. Mol. Sci.*
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<sup>1</sup>*Konan Univ.*, <sup>2</sup>*Ryukoku Univ.*, <sup>3</sup>*Univ. Miyazaki*, <sup>4</sup>*Kyoto Univ.*, <sup>5</sup>*Osaka Univ.*
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<sup>1</sup>*KTH-Royal Inst. Tech.*, <sup>2</sup>*Uppsala Univ.*, <sup>3</sup>*Univ. Sunshine Coast*, <sup>4</sup>*Univ. Queensland*, <sup>5</sup>*Dalian Univ. Tech.*
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<sup>1</sup>Nagoya Inst. Tech., <sup>2</sup>Osaka City Univ.
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<sup>1</sup>*High Energy Accelerator Res. Org.*, <sup>2</sup>*Grad. Univ. Adv. Studies*, <sup>3</sup>*Jichi Medical Univ.*, <sup>4</sup>*Euro. XFEL GmbH*, <sup>5</sup>*Center Free-Electron Laser Sci.*
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<sup>1</sup>Max Planck Inst. Chem. Energy Conv., <sup>2</sup>Umea Univ., <sup>3</sup>Australian Natl. Univ., <sup>4</sup>Uppsala Univ.

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<sup>1</sup>*Univ. of Hyogo*, <sup>2</sup>*Okayama Univ.*, <sup>3</sup>*RIKEN*
- P4-16 An Alternative Mechanism of O-O Bond Formation in PSII  
Yu Guo<sup>1</sup>, Biaobiao Zhang<sup>1</sup>, Licheng Sun<sup>1,2</sup>  
<sup>1</sup>*KTH Royal Inst. Tech.*, <sup>2</sup>*Dalian Univ. Tech.*
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Manoj Mandal, Keisuke Kawashima, Keisuke Saito, Hiroshi Ishikita  
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Kateryna Kukil, Pia Lindberg  
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<sup>1</sup>*Ritsumeikan Univ.*, <sup>2</sup>*Kurume Univ.*

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Jenny Z. Zhang  
*Cambridge Univ.*
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Yosuke Kageshima<sup>1</sup>, Akihiko Someno<sup>1</sup>, Katsuya Teshima<sup>1</sup>, Kazunari Domen<sup>1,2</sup>, Hiromasa Nishikiori<sup>1</sup>  
<sup>1</sup>*Shinshu Univ.*, <sup>2</sup>*Univ. Tokyo*
- P7-03 Electron-Transfer Behaviors between Photoexcited Metal Complex and Methyl Viologen Codoped in Ionic Nanospheres  
Hayata Yamamoto<sup>1</sup>, Akitaka Ito<sup>2</sup>, Daisuke Kosumi<sup>1</sup>  
<sup>1</sup>*Kumamoto Univ.*, <sup>2</sup>*Kochi Univ. Tech.*
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- P8-03 Solvation Dynamics Accompanying Photoinduced Polarity Decrease of Betaine Dye  
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- P8-04 Theoretical Study on Intramolecular Electron Transfer of Supramolecular Ru(II)-Re(I) Photocatalysts for CO<sub>2</sub> Reduction  
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- P8-06 Modification of Dyes on Metal Oxide Surface with Insulated Anchor Molecules Bearing Cyclodextrin Derivatives  
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<sup>1</sup>*Univ. Tokyo*, <sup>2</sup>*Kyoto Univ.*, <sup>3</sup>*Chuo Univ.*
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*Ashikaga Inst. Tech.*
- P8-08 Unraveling the Mechanistic Richness of Proton Coupled Electron Transfer in Tungsten Hydrides by Applying Pressure  
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