

Plenary Lectures

----- July 29, 2024 (Monday) Room A -----

[Chair : Hiroshi Segawa]

08:45-09:30 1-PL-01

***Michael Graetzel¹** (*1.EPFL*)

Molecular Photovoltaics and the Rise of Perovskite Solar Cells

[Chair : Akihiko Kudo]

09:30-10:15 1-PL-02

***Harry Atwater¹** (*1.California Institute of Technology*)

Coupled Microenvironment Systems for Liquid Solar Fuels

[Chair : Lianzhou Wang]

13:30-14:15 1-PL-03

***Alex K Y Jen¹** (*1.City University of Hong Kong*)

Printable Organic and Perovskite Solar Cells for Clean Energy

----- July 30, 2024 (Tuesday) Room A -----

[Chair : Hiroshi Imahori]

08:30-09:15 2-PL-01

***Daniel G. Nocera¹** (*1.Harvard University*)

The Bionic Leaf: Distributed and Renewable Fischer-Tropsch and Haber-Bosch at High Solar Energy Efficiencies and Large Carbon Savings

[Chair : Shuji Hayase]

09:15-10:00 2-PL-02

***Nam-Gyu Park¹** (*1.SKKU*)

Discovery and Progress of Perovskite Solar Cells

[Chair : Osamu Ishitani]

13:30-14:15 2-PL-03

***Yuichiro Himeda¹** (*1.AIST*)

Development of complex catalysts for CO₂ conversion to methanol and formic acid

----- July 31, 2024 (Wednesday) Room A -----

[Chair : Teruhisa Ohno]

08:30-09:15 3-PL-01

***James Durrant¹** (*1.Imperial College London*)

Charge separation and stabilisation in photocatalyst materials for solar driven water splitting

[Chair : Hyun Suk Jung]

09:15-10:00 3-PL-02

***Shunichi Fukuzumi¹** (*1.Ewha Womans University / University of Tsukuba*)
Molecular Artificial Photosynthesis

----- August 1, 2024 (Thursday) Room A-----

[Chair : Andre Sarto Polo]

08:30-09:15 4-PL-01

***Licheng Sun^{1,2}** (*1. Westlake University, 2.KTH Royal Institute of Technology*)
Water Splitting Catalysis—From O-O Bond Formation Mechanisms to Anion Exchange
Membrane Water Electrolysis

[Chair : Cojocar Ludmila]

9:15-10:00 4-PL-02

***Shinichi Komaba¹** (*1.Tokyo University of Science*)
All-Solid-State Na- and K-ion Batteries with Ion Conducting Polymer

[Chair : Harry Atwater]

13:30-14:15 4-PL-03

***Kazunari Domen¹** (*1.Shinshu University / The University of Tokyo*)
Water splitting by particulate photocatalysts for green hydrogen and fuels production

----- August 2, 2024 (Friday) Room A -----

[Chair : Hitoshi Tamiaki]

08:30-09:15 5-PL-01

***Jian-Ren Shen¹** (*1.Okayama University*)
Mechanism of water oxidation in natural photosynthesis

[Chair : Licheng Sun]

09:15-10:00 5-PL-02

***Maria Antonietta Loi¹** (*1.University of Groningen*)
Efficient Lead-tin perovskite solar cells