

# The International Symposium on Photocatalysis

## <<Plenary Lecture>>

### PL

*Development of Photocatalyst Materials Aiming at Artificial Photosynthesis*  
Akihiko KUDO (Tokyo University of Science)

## <<International invited lectures>>

### IL-I-1

*Polymeric Graphitic Carbon Nitride for Heterogeneous Photocatalysis*  
Xinchen WANG (Fuzhou University)

### IL-I-2

*Solar-Driven Photocatalysis with Disorder-Engineered Titanium Dioxide Nanoparticles*  
Samuel S. MAO (Lawrence Berkeley National Laboratory)

### IL-I-3

*Synthesis and Modification of Mesoporous Carbon Nitride as Visible Light-Driven Photocatalyst*  
Leny Yuliaty (Universiti Teknologi Malaysia)

### IL-I-4

*Dual Purpose Photocatalysis for Water Treatment and Hydrogen Production*  
WonYong Choi (Pohang University of Science and Technology)

### IL-I-5

*A Novel Photoreactor for Artificial Photosynthesis to Harvest Sunlight*  
Jeffrey Chi-Sheng Wu (National Taiwan University)

### IL-I-6

*Low-Cost & Efficient Photocatalyst Systems for Production of Solar Hydrogen*  
Rong Xu (Nanyang Technological University)

### IL-I-7

*Photocatalytically Anchored Bismuth Vanadate Particles on Reduced Graphene Oxide Sheets for Water Splitting*  
Yun Hau Ng (The University of New South Wales)

## <<Domestic invited lectures>>

### IL-D-1

*Photocatalytic Reactions over Gold-Metal Oxides under Irradiation of Visible Light*  
Hiroshi Kominami (Kinki University)

### IL-D-2

*Visible Light-Responsive Photocatalysts Designed for Environmentally-Benign Applications*  
Yu Horiuchi (Osaka Prefecture University)

### IL-D-3

*Direct Functionalization of Aromatic Ring with Hydrogen Formation by Metal-Loaded Titanium Oxide Photocatalysts*  
Hisao Yoshida (Nagoya University)

IL-D-4

*Dye-sensitized Photocatalysis of Semiconductors for H<sub>2</sub> Evolution under Visible Light —Dependence on Combinations of Semiconductors, Dyes, and Electron Donors*  
Yuji Wada (Tokyo Institute of Technology)

IL-D-5

*Semiconductor Electrode with Novel Structure for Sunlight Driven Photoelectrochemical Water Splitting*  
Tutomu Minegishi (The University of Tokyo)

IL-D-6

*Liquid Fuel Production from CO<sub>2</sub> with Photosensitizer-Enzyme Based Artificial Photosynthesis System*  
Yutaka Amao (Oita University)

IL-D-7

*Design of Super Hydrophilic and Hydrophobic Surfaces Using Nanostructured Thin Film Photocatalysts*  
Hiromi Yamashita (Osaka University)

IL-D-8

*Solar CO<sub>2</sub> Reduction Conjugated with H<sub>2</sub>O Oxidation Utilizing Semiconductor/Metal-Complex Hybrid Photocatalysts*  
Takeshi Morikawa (TOYOTA Central R&D Labs., INC)

IL-D-9

*Supramolecular Photocatalysts for CO<sub>2</sub> Reduction with Light-Harvesting Function*  
Osamu Ishitani (Tokyo Institute of Technology)

IL-D-10

*X-ray Diffraction Analyses and Effect on the Photocatalytic Activities of Crystalline Composition of Particulate Titania Photocatalysts*  
Bunsho Ohtani (Hokkaido University)

**<<Oral Presentations>>**

OP-1

*Photocatalytic Hydrogen Evolution Using Calcium Niobate Nanosheets: Effect of Nanosheet-Size on Activity*  
Kazuhiko Maeda (The University of Tokyo)

OP-2

*Magnetic Field Effect on Heterogeneous ZnO Photocatalysis*  
Hideyuki Okumura (Kyoto University)

OP-3

*Infrared Absorption by Electrons Excited in Doped Photocatalysts*  
Hiroshi Ohnishi (Kobe University)

OP-4

*Nano-Photocatalysts Synthesized by Soft Chemistry Method*  
Kenji Toda (Niigata University)

OP-5

*Degradation Analysis and Regeneration of (Ga<sub>1-x</sub>Zn<sub>x</sub>)(N<sub>1-x</sub>O<sub>x</sub>) for Overall Water Splitting*  
Takashi Hisatomi (The University of Tokyo)