



2nd SNU

Solar Fuel Material Workshop

Date : **February 23~24** 2017

Location : Global Convention Center (Room 517, Building 38) in SNU

Program Chair | Ki Tae Nam (Seoul National University, Korea), Ryuhei Nakamura (RIKEN, Japan)

February 23 (Thu)

Time	Contents	
08:50-09:00	Opening Ceremony	
Section I		Chair : Ki Tae Nam
09:00-09:40	Photocatalytic Supramolecular Devices for Solar Hydrogen Production from Water	Soo Young Park (Seoul National University, Korea)
09:40-10:20	Highly Active and Selective Electrocatalysts based on Covalent Organic Frameworks Modified with Single Metal Atoms	Kazuhide Kamiya (Osaka University, Japan)
10:20-10:40	Break	
10:40-11:20	Protons, Electrons, and Carbon amongst the First Material-organizing Energy Flows: New Thinking on Hydrothermal Vents	Shawn E. McGlynn (Tokyo Institute of Technology, Japan)
11:20-12:00	Rationally Design and Construct Solar-Driven Photocatalysts	Gang Liu (Shenyang National Laboratory, China)
12:00-13:40	Lunch	
Section II		Chair : Shuji Nakanishi
13:40-14:20	Ammonia Synthesis from Nitrate Using Bio-inspired Mo-S Electrocatalysts	Ryuhei Nakamura (RIKEN Center for Sustainable Resource Science, Japan)
14:20-15:00	Developing Nanostructured Electrocatalysts for Solar Fuel Generation	Yanguang Li (Soochow University, China)
15:00-15:20	Break	
15:20-16:00	Analysis of Electron Transfer between n-type GaN Photoelectrode and Electrolyte toward to Electrocatalyst for Water Splitting Electrochemical Cell in Energy Storage System	Katsushi Fujii (The University of Kitakyushu, Japan)
16:00-16:40	d-orbital Manifold Catalyzing Materials for Water Oxidation	Ki Tae Nam (Seoul National University, Korea)

February 24 (Fri)

Section III		Chair : Ryuhei Nakamura
09:00-09:40	Photo-fuelization of CO ₂ to Methanol in Aqueous media through Mono Phase Cuprous Oxide Nanofiber by Path-designed Annealing	Young-Chang Joo (Seoul National University, Korea)
09:40-10:20	Highly Efficient H-doped TiO ₂ -X for Sun Light-Driven H ₂ Generation	Jong-Sung Yu (DGIST, Korea)
10:20-10:40	Break	
10:40-11:20	Wafer-scale Solution-processed Heterojunction Nanostructures for Water Splitting Photoelectrodes	Ho Won Jang (Seoul National University, Korea)
11:20-12:00	Cyclic Redox-Signal Transduction in Photosynthetic Cyanobacterial Circadian Clock	Shuji Nakanishi (Osaka University, Japan)
12:00-13:40	Lunch	
Section IV		Chair : Yanguang Li
13:40-14:20	Next Generation Photosynthetic Cells	Jihun Oh (KAIST, Korea)
14:20-15:00	Molecular Mechanisms of Water Oxidation and Efficient Electron Transfer in Photosystem II	Miwa Sugiura (Ehime University, Japan)
15:00-15:20	Break	
15:20-16:00	Semiconductor Nanomaterials for Solar Water Splitting and Cell Interfaces	Gengfeng Zheng (Fudan University, China)
16:00-16:40	Development of Novel Electrodes and Catalysts for Spontaneous Water Splitting	Min Hyung Lee (Kyung Hee University, Korea)
16:40-16:50	Closing Ceremony	