

Simposium 1: Hydrogen Energy: Water Splitting and Energy Application

February 24 (TUE)

Time	Program	
	[S1-1] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Yong, Kijung (POSTECH) & Yang, Shihe (The Hong Kong University of Science and Technology)	
13:30-14:00	[2108101] Water splitting on photocatalyst sheets	Domen, Kazunari (The University of Tokyo)
14:00-14:30	[2113796] Silicon based water splitting cells for efficient and stable hydrogen production	Oh, Jihun (KAIST)
14:30-15:00	[2106941] Nanostructured photoelectrode by atomic layer deposition and ion exchange reaction	Fan, Hongjin (Nanyang Technological University)
15:00-15:30	[2119953] Synthesis and Applications of Novel Two-Dimensional Nanomaterials	Zhang, Hua (Nanyang Technological University)

Time	Program	
	[S1-2] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Fan, Hongjin (Nanyang Technological University) & Oh, Jihun (KAIST)	
15:50-16:20	[2065711] Engineering Nanostructures for Efficient Solar Energy Conversion	Yang, Shihe (The Hong Kong University of Science and Technology)
16:20-16:50	[2115074] Silicon based devices for solar water splitting	Smith, Wilson (Delft University of Technology)
16:50-17:10	[2089713] Design of PV-PEC Tandem Cell with BiVO ₄ and Dye-Sensitized Solar Cells for Solar Water Splitting	Chae, Sang Youn (Korea Insititute of Science and Technology)
17:10-17:30	[2088912] Au-Decorated NiO Plasmonic Photocatalysts For Efficient Water Reduction	Tsai, Chao Lin (National Chiao Tung University)

February 25 (WED)

Time	Program	
	[S1-3] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Gimenez, Sixto (University Jaume I) & Westin, Gunnar (Uppsala University)	
09:00-09:30	[2104724] Low cost quantum-confined oxide arrays for solar water splitting	Vayssieres, Lionel (Xian Jiaotong University)
09:30-10:00	[2143522] QDs Photo-sensitization of TiO ₂ nanostructures for hydrogen generation	AMMAR, Souad (Paris Diderot University)
10:00-10:30	[2142294] Visible Light Active Materials for Efficient Photoelectrochemical Hydrogen Production	Mathur, Sanjay (Universtiy of Cologne)

Time	Program	
	[S1-4] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Vayssieres, Lionel (Xian Jiaotong University) & Ammar, Souad (Paris Diderot University)	

10:50-11:20	[2108968] Photoelectrochemical water splitting with metal oxide semiconductors	Gimenez, Sixto (University Jaume I)
11:20-11:50	[2143359] Efficient processes to complex metal, composite and oxide materials for renewable energy	Westin, Gunnar (Uppsala University)
11:50-12:10	[2086231] PbO-ZnO Heterostructures with p-n Interface for Enhanced Photoelectrochemical Application	Chiu, Yi-Hsuan (National Chiao Tung University)

Time	Program	
	[S1-5] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Han, Sang-Wook (Chonbuk National University) & Hsu, Yung-Jung (National Chiao Tung University)	
13:30-14:00	[2120779] Materials Tuning of Titania Nanotubes and their Energy Applications	Sekino, Tohru (Osaka University)
14:00-14:30	[2151775] New advancement in silicon based photocathodes for low cost solar hydrogen production	Morante, Joan (University of Barcelona)
14:30-14:50	[2114157] Electrochemical Hydrogen Evolution on Amorphous MoS ₂ Catalyst Prepared by Atomic Layer Deposition	Jin, Zhenyu (Konkuk University)
14:50-15:10	[2089113] Z-scheme Nanoheterostructures: Charge Carrier Dynamics and Practical Solar Photocatalysis	Hsu, Ting Heng (National Chiao Tung University)
15:10-15:30	[2117334] Using photooxidative etching as a new approach to the determination of charge separation in faceted chalcogenide photocatalysts	Liu, Maochang (International Research Center for Renewable Energy, State Key Laboratory of Multiphase Flow)

Time	Program	
	[S1-6] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Morante, Joan (University of Barcelona) & Sekino, Tohru (Osaka University)	
15:50-16:20	[2106964] Metal/Semiconductor Nanoheterostructures for Photoconversion Applications	Hsu, Yung-Jung (National Chiao Tung University)
16:20-16:50	[2088784] Local structural properties and local density of states of metal-insulator-transition materials	Han, Sang-Wook (Chonbuk National University)
16:50-17:10	[2088763] TiO ₂ /CdSe/Graphene Quantum Dots Composite Nanowires for Remarkable Photoelectrochemical Water Splitting	Chang, Yung-shan (National Chiao Tung University)
17:10-17:30	[2140248] Double Layered TiO ₂ @Fe ₂ O ₃ Photoelectrodes with “Z-Scheme” Structure for Efficient Photoelectrochemical (PEC) Water Splitting	Wang, Meng (International Research Centre for Renewable Energy & State Key Laboratory of Multiphase Flow in Power Engineering)

February 26 (THU)

Time	Program	
	[S1-7] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Wang, Dan (Chinese Academy of Sciences) & Nam, Ki Tae (Seoul National University)	
10:40-11:20	[2063022] Material Design for Solar Fuel Production	Lee, Jae Sung (Ulsan National Institute of Sci & Tech (UNIST))
11:20-11:50	[2095209] Metal Doping and Surface Engineering for Efficient Solar Water Splitting over Hematite Nanorod Photoanodes	Shen, Shaohua (Xi'an Jiaotong University)
11:50-12:10	[2088762] Core-Shell Metal-Cu ₂ O (Metal=Au, Ag, Pd) Nanocrystals and Their Comparative Photocatalytic Results	Wu, Yen-Feng (National Chiao Tung University)

Time	Program	
	[S1-8] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Shen, Shaohua (Xi'an Jiaotong University) & Wang, Lianzhou (University of Queensland)	
13:30-14:00	[2107374] Bio-inspired Mn based Catalysts for water oxidation	Nam, Ki Tae (Seoul National University)
14:00-14:30	[2108569] Heterogeneous multi-shelled metal oxide hollow microsphere for water splitting hydrogen production	Wang, Dan (Institute of Process Engineering, Chinese Academy of Sciences)
14:30-15:00	[2089698] X-ray structure characterization of amorphous cobalt water oxidation catalyst film	Kwon, Gihan (Argonne National Laboratory)
15:00-15:30	[2147193] Group III-nitride nanowires: A viable catalyst for efficient solar water splitting	Mi, Zetian (McGill University)

Time	Program	
	[S1-9] Hydrogen Energy: Water Splitting and Energy Application	
	Chair: Kwon, Gihan (Argonne National Laboratory) & Mi, Zetian (McGill University)	
15:50-16:20	[2113739] Semiconductor Metal Oxides for Photoelectrochemical Energy Conversion	Wang, Lianzhou (University of Queensland)
16:20-16:40	[2088785] CdSe/Graphene quantum dots nanoheterostructures for photoelectrochemical hydrogen production	Tsai, Kai-An (National Chiao Tung University)
16:40-17:00	[2141734] Effect of multi-structured heterojunction layer consisting of TiO ₂ and hematite (α -Fe ₂ O ₃) on photoelectrochemical (PEC) performance via plasma enhanced chemical vapor deposition (PECVD)	Pyeon, Myeongwhun (University of Cologne)
17:00-17:20	[2142301] Plasma Deposition and Modification of Semiconducting Thin Films for Photoelectrochemical Hydrogen Production	Gönüllü, Yakup (Universtiy of Cologne)