

Oral Presentation

Symposium 12. Young Scientists Forum on Future Energy Materials and Devices

February 20 (MON)

Time	Program	
	[Session 12-1] Young Scientists Forum on Future Energy Materials and Devices	
	Chair: Hyon Bin Na (Myongji University)	
15:10-15:40	[SO12-1] A lower temperature operating sodium beta-alumina battery (LT-NBBs) for grid scale energy storage: development strategies and technical challenges (Keynote presentation)	Keeyoung Jung (Research Institute of Industrial Science and Technology (RIST))
15:40-16:10	[SO12-2] Improvement in the Photo-Conversion Efficiency of Bulk Heterojunction Solar Cells utilizing Energy Level Engineered Polymer- Semiconducting SWNT Hybrid Active Layer (Invited Speaker)	Woo-Jae Kim (Gachon University)
16:10-16:40	[SO12-3] Bi-facial CdS/CdTe thin film solar cells for flexible applications (Invited Speaker)	Jihyun Kim (Korea University)
16:40-17:10	[SO12-4] Facile aqueous phase synthesis of metal and metal oxide nanoparticles with controllable shape (Invited Speaker)	Taekyung Yu (Kyunghee University)
17:10-17:40	[SO12-5] Anti-Galvanic Reduction of Silver Ion in the Synthesis of Anisotropic Gold Nanostructures (Invited Speaker)	Hyon Bin Na (Myongji University)
17:40-18:10	[SO12-6] Hybridization of Metal-Organic Frameworks and Nanomaterials for Catalysis (Invited Speaker)	Kyungmin Choi (Sookmyung Women's University)

February 21(TUE)

Time	Program	
	[Session 12-2] Young Scientists Forum on Future Energy Materials and Devices	
	Chair: Wan Ki Bae (KIST)	
09:00-09:30	[SO12-7] Conversion-based anode application of carbon nanocomposites with vanadium metal oxides/halide nanocrystals (Keynote presentation)	Songhun Yoon (Chung-Ang University)
09:30-09:45	[SO12-8] Colloidal Thick-Shell Nanocrystals with Near-Unity Quantum Yield and Suppressed Blinking	Byeong Guk Jeong (KAIST)
09:45-10:15	[SO12-9] Porous Structure based High Performance Electrocatalysts for Low Temperature Fuel Cells and CO ₂ conversion (Invited Speaker)	Jinwoo Lee (POSTECH)
Time	Program	
	[Session 12-3] Young Scientists Forum on Future Energy Materials and Devices	
	Chair: Taekyung Yu (Kyunghee University)	
10:50-11:20	[SO12-10] Structural Engineering of Nanocrystal Quantum Dots for Optoelectronic Applications (Invited Speaker)	Wan Ki Bae (KIST)
11:20-11:50	[SO12-11] Bandgap Engineering of Polymeric Inverse Opals via Thermal Creep (Invited Speaker)	Shin-Hyun Kim (KAIST)