

Oral Presentation

Symposium 2. Materials Challenges in Perovskite and Next Generation Solar Cells

February 20 (MON)

Time	Program	
	[Session 2-1] Materials Challenges in Perovskite and Next Generation Solar Cells	
	Chair: Jun Hong Noh (KRICT)	
15:10-15:40	[SO2-1] Parameters controlling photo-induced interfacial charge separation and recombination dynamics in perovskite solar cells (Invited Speaker)	Yasuhiro Tachibana (MIT University)
15:40-16:10	[SO2-2] Structural Disorder Effect on Metal-insulator Transition in VO ₂ and its Applications to Smart Windows and Solar Cells (Invited Speaker)	Sang-Wook Han (Jeonbuk National University)
16:10-16:40	[SO2-3] Highly efficient p-i-n type planar perovskite solar cells (Invited Speaker)	Jin Young Kim (Seoul National University)
16:40-17:10	[SO2-4] Halide Exchange Induced Controllable Fabrication of High Quality Perovskite for Solar Cells (Invited Speaker)	Yixin Zhao (Shanghai Jiao Tong University)
17:10-17:40	[SO2-5] Low Cost and Large Area Photonic Architectures for Enhanced Light Management in Optoelectronic Devices (Invited Speaker)	Agustín Mihi (Institute of Materials Science of Barcelona)
17:40-18:10	[SO2-6] Exploring the Pb(Ac) ₂ -based Precursors for the Inverted Perovskite Solar Cells with Efficiency Exceeding 20% (Invited Speaker)	Rui Zhu (Peking University)

February 21 (TUE)

Time	Program	
	[Session 2-2] Materials Challenges in Perovskite and Next Generation Solar Cells	
	Chair: Jin Young Kim (Seoul National University)	
09:00-09:30	[SO2-7] Advanced Plasmonic and Perovskite Solar Cells (Invited Speaker)	Dong Ha Kim (Ewha Womans University)
09:30-10:00	[SO2-8] Mediator-assisted crystallization for efficient perovskite solar cells (Invited Speaker)	Jun Hong Noh (KRICT)
10:00-10:30	[SO2-9] Organic-inorganic hybrid perovskite photovoltaic devices (Invited Speaker)	Sang Hyuk Im (Kyung Hee University)
Time	Program	
	[Session 2-3] Materials Challenges in Perovskite and Next Generation Solar Cells	
	Chair: Sang Hyuk Im (Kyung Hee University)	
10:50-11:20	[SO2-10] Symmetrization of the Crystal Lattice of MAPbI ₃ Boosts the Performance and Stability of Metal-Perovskite Photodiodes (Invited Speaker)	Qixi Mi (ShanghaiTech University)
11:20-11:50	[SO2-11] Novel nanomaterials for efficient organic solar cells (Invited Speaker)	Dong Chan Lim (KIMS)
11:50-12:20	[SO2-12] A Process to high efficiency stable perovskite solar cell and module (Invited speaker)	Chun-Guey Wu (National Central University)
Time	Program	
	[Session 2-4] Materials Challenges in Perovskite and Next Generation Solar Cells	
	Chair: Dong Chan Lim (KIMS)	
15:50-16:05	[SO2-13] Rough surface Gold nanoparticles for Efficient Plasmonic Light Absorption Enhancement in Organic Solar Cells	Nhat Quang Tran (Gachon University)
16:05-16:20	[SO2-14] Enhanced Perovskite Solar Cells Performance Based on Barium Insertion in Methylammonium Lead Halides	Shun-Hsiang Chan (Chang Gung University)
16:20-16:35	[SO2-15] Ca-doped Perovskite Materials for Perovskite Photovoltaics	Tzu Hao Lin (Chang Gung University)
16:35-16:50	[SO2-16] Ambient-air Processed Perovskite Solar Cells Employing Effective Perovskite-NiO Nanoparticles Composite	Yousheng Wang (Chonbuk National University)
16:50-17:05	[SO2-17] Efficient Bulk Heterojunction Hybrid Solar Cells with Microwave- Processed Ag-Graphene Nanocomposites in Active Layer	Tahmineh Mahmoudi (Chonbuk National University)