

Oral Presentation

Symposium 11. Advanced Materials & Nanodevices for Sustainable and Eco-Friendly

February 23(THU)		
Time	Program	
	[Session 11-1] Advanced Materials & Nanodevices for Sustainable and Eco-Friendly	
	Chair : Yuichi Harada(Kyushu University), Sang Hyun Lee(KIST)	
09:00-09:30	[SO11-1] Smart Materials for Wearable and Dynamic Technologies (Keynote presentation)	S. Ravi P. Silva (University of Surrey)
09:30-10:00	[SO11-2] One step synthesis of Au nanoparticle-cyclized polyacrylonitrile composite films and their use in organic nano-floating gate memory applications (Invited Speaker)	Tae-Wook Kim (Korea Institute of Science and Technology)
10:00-10:30	[SO11-3] Nature-inspired Anti-microbial Nano-pillar Structured Surfaces for Biomedical Applications (Invited Speaker)	Donghyun Lee (Chung-Ang University)
Time	Program	
	[Session 11-2] Advanced Materials & Nanodevices for Sustainable and Eco-Friendly	
	Chair : S. Ravi P. Silva(University of Surrey), Donghyun Lee(Chung-Ang University)	
10:50-11:20	[SO11-4] Hybrid nanocomposites for advanced electronic devices (Invited Speaker)	Sang Hyun Lee (Korea Institute of Science and Technology)
11:20-11:50	[SO11-5] Functionalities of atomic layer deposition and their applications (Invited Speaker)	Yuichi Harada (Kyushu University)
11:50-12:05	[SO11-6] Zirconia Green Body Sintering Investigated By Dilatometry And Laser Flash Analysis	Ekkehard Post (NETZSCHGeraetebau GmbH)
12:05-12:20	[SO11-7] Cu-ZnO/ γ -Al ₂ O ₃ nanorod catalyst for higher alcohol synthesis from CO hydrogenation	Gahye Choi (Hanyang University)
Time	Program	
	[Session 11-3] Advanced Materials & Nanodevices for Sustainable and Eco-Friendly	
	Chair : Silke H. Christiansen(HZB), Tae-Wook Kim(KIST)	
13:30-14:00	[SO11-8] Flexible Energy Storage Devices Based on Nanomaterials (Keynote presentation)	Gehan Amaratunga (University of Cambridge)
14:00-14:30	[SO11-9] Microfluidic Design and Synthesis of Shape-Variant Functional Droplets and Bubbles(Invited Speaker)	Pil Jin Yoo (Sungkyunkwan University)
14:30-15:00	[SO11-10] Semiconductor Nanomaterials for Solar Water Splitting and Cell Interfaces(Invited Speaker)	Gengfeng Zheng (Fudan University)
15:00-15:15	[SO11-11] Solution Process Synthesis of High Aspect Ratio ZnO Nanorods on Electrode Surface for Sensitive Electrochemical Detection of Uric Acid	Rafiq Ahmad (Chonbuk National University)
15:15-15:30	[SO11-12] Redox Behavior in Transition Metal-Doped Oxides Energy Applications	Ivar E Reimanis (Colorado School of Mines)
Time	Program	
	[Session 11-4] Advanced Materials & Nanodevices for Sustainable and Eco-Friendly	
	Chair : Pil Jin Yoo(SKKU), Gengfeng Zheng(Fudan University)	
15:50-16:20	[SO11-13] Nanoarchitectures in energy research and bio-medical sensing - advancement of functionality by correlative microscopy and spectroscopy (Invited Speaker)	Silke H. Christiansen (Helmholtz-Zentrum Berlin für Materialien und Energie)
16:20-16:50	[SO11-14] Cost-effective Fabrication Route of Chemical and Biological Nanowire Sensor (Invited Speaker)	Yeon Ho Im (Chonbuk National University)
16:50-17:05	[SO11-15] ZnO Nanomaterials Based Novel Field Emitters: Research and Development	Hamed Algarni (King Khalid University)
17:05-17:20	[SO11-16] The Effect of Water Vapor on Fatigue and Creep Behavior of Ni-YSZ Ceramics	Byung-Koo Jang (National Institute for Materials Science)
17:20-17:50	[SO11-17] High Efficient, Ultra-Sensitive Sensor Inspired by Spider's Sensory Organ (Invited Speaker)	Tae-il Kim (Sungkyunkwan University)

February 24(FRI)		
Time	Program	
	[Session 11-5] Advanced Materials & Nanodevices for Sustainable and Eco-Friendly	
	Chair : Pil Jin Yoo (SKKU), Gengfeng Zheng (Fudan University)	
09:00-09:30	[SO11-18] Synthesis of Novel Two-Dimensional Nanomaterials for Clean Energy Applications (Keynote presentation)	Hua Zhang (Nanyang Technological University)
09:30-10:00	[SO11-19] Carbon Materials for Energy (Invited Speaker)	Rodney Ruoff (IBS CMCM/UNIST)

10:00-10:15	[SO11-20] The Effect of Cation Non-Molecularity on One-Pot Electrodeposited CuInSe ₂ Thin-Film Solar Cells	Jang Mi Lee (KIST)
10:15-10:30	[SO11-21] Ni Nanoparticle Catalysts Capped with Organic Molecules as Efficient Catalysts toward Selective Hydrogenation	Hojin Jeong (KAIST)
10:50-11:20	[SO11-22] Semiconductor Nanomaterials: Growth, Properties and Applications (Invited Speaker)	Ahmad Umar (Najran University)
11:20-11:35	[SO11-23] Low Power Thin Film Transister	Teresa Oh (Cheongju Univeristy)