

Monday Mar. 6 Kulen Room		
8:50-9:00AM	Opening	
Session: EAST General I Chair: Xin Chen		
9:00-9:30AM	01: Toward Dendrite-Free and High Energy-High Power Lithium-Sulfur Batteries	Bingqing Wei (Keynote) University of Delaware, USA
9:30-10:00AM	02: Genetic engineering of Bioenergy Plants	Chandrashekhar P. Joshi (Keynote) Michigan Technological University, USA
10:00-10:25AM	03: On the optimum content of Ag for more efficient photocatalytic hydrogen evolution of Ag-TiO ₂ -graphene ternary nanocomposites	Chun-Pei Cho National Chi Nan University, Taiwan
10:25-10:45AM	Session Break	
Session: CC Nuclear Physics Chair: Quamrul Haider		
10:45-11:10AM	04: Dense Quark Matter and Compact Stars	Huan Chen China University of Geosciences, China
11:10-11:35AM	05: A direct test for matter-antimatter - imbalance in the Universe, and how we detect it	Petteri Pusa University of Liverpool, UK
11:35-12:00AM	06: Thirty Years of Eta-Mesic Nucleus: Theory and Experiment	Quamrul Haider Fordham University, USA
Lunch		
Session: EAST General II Chair: Chandrashekhar P. Joshi		
14:00-14:25PM	07: Sensing Improvement of Oxide Nanowires Gas Sensors	Sang Sub Kim Inha University, Korea
14:25-14:50PM	08: Near-field effect in nanostructured materials in the coupled Maxwell-Schrödinger approach	Tokuei Sako Nihon University, Japan
14:50-15:10PM	Session Break	
Session: Semiconductor Devices Chair: Sang Sub Kim		
15:10-15:35PM	09: Confinement effects in large bandgap oxide semiconductors	Lionel Vayssieres Xian Jiaotong University, China
15:35-16:00PM	10: Development of new heavy compound semiconductors for radiation detection	HongJoo Kim Kyungpook National University, Korea

Tuesday Mar. 7 Kulen Room		
Session: Photovoltaics General Chair: Yu-Chiang Chao		
9:20-9:50AM	11: Molecular Design and Morphological Control on Polymer Solar Cell for High Performance	Show-An Chen (Keynote) National Tsing Hua University, Taiwan
9:50-10:15AM	12: PV System Power Variability in the Tropics due to Intermittent Shading from Clouds	Douglas L. Maskell Nanyang Technological University, Singapore
10:15-10:40AM	13: Organic Nanophotovoltaics: from the Fundamental Carrier Transport to Commercial Aspects	Vaidotas Kazukauskas Vilnius University, Lithuania
10:40-11:10AM	POSTER & SESSION BREAK	
Session: EAST General III Chair: Tokuei Sako		
11:10-11:35AM	14: Biomaterials based on Bombyx mori silk fibroin	Xin Chen Fudan University, China
11:35-12:00AM	15: Development of solid state lighting material from glass doped with Ln ³⁺	Jakrapong Kaewkhao Nakhon Pathom Rajabhat University, Thailand
Lunch		

POSTER Tuesday March 7 th 10:40-11:10AM	
P01: Some Aspects of Teaching Photovoltaics in the Field of Electrical Engineering	Vitezslav Benda Czech Technical University in Prague, Czech Republic
P02: Silk Fibroin/MoS ₂ Hybrids for Photothermal Therapy	Zhao Li Fudan University, China

Wednesday Mar. 8

Kulen Room

Session: Perovskite Solar Cells Chair: Show-An Chen

9:00-9:25AM

16: Infrared perovskite light-emitting diodes

Yu-Chiang Chao
Chung Yuan Christian
University, Taiwan

9:25-9:50AM

17: Low-light characteristics of perovskite solar cells

Jiayu Qiu
Nihon University, Japan

9:50-10:10AM

Session Break

Session: EAST General IV Chair: Lionel Vayssieres

10:10-10:35AM

18: Highly active Cu-based catalysts for the synthesis of glycerol carbonate from glycerol and CO₂

Dehua He
Tsinghua University, China

10:35-11:00AM

19: Carbon-based nanocomposite materials with direct applications in supercapacitors, HER and fuel cells

Daniel Chua
National University of Singapore,
Singapore

11:00-11:25AM

20: Photo-Reversible Azo Materials for Light-Harvesting, and Solar-Powered Robotics

Christopher J. Barrett
McGill University, Canada

Lunch