

Program for EMN Guangzhou Meeting

**Thursday morning, December 3
Room A**

Session: Nanomaterials and Nanostructures I Chair: Grant Williams

9:00-9:25AM	A01: 3D Ordered Mesoporous Networks of CdS Nanoparticles for Efficient Photocatalytic Hydrogen Evolution	Gerasimos S. Armatas University of Crete, Greece
9:25-9:50AM	A02: Chemical Strategies for Synthesis of Green Nanomaterials – Chemistry and Future Scope of Iron Oxide/Oxyhydroxide Based Nanostructures	Anil Kumar Indian Institute of Technology Roorkee, India
9:50-10:15AM	A03: Novel Chiral Spin Torque and Exchange Coupling Torque driven Magnetic Domain Wall Dynamics in Magnetic Nanostructures	See-Hun Yang IBM Almaden Research Center, USA
10: 15-10:35AM	Session Break	
10:35 -11:00AM	A04: Electric control of magnetic and magnetoelectric dynamics in nanoscale composite multiferroics	Chenglong Jia Lanzhou University, China
Session: Optoelectronic Materials and Devices Chair: Gerasimos S. Armatas		
11:00-11:25AM	A05: Electrically and optically switchable diffraction grating in organic chromophore/polymer thin films	Grant Williams Victoria University of Wellington, New Zealand
11:25-11:50AM	A06: High Efficiency Graphene-Silicon Heterojunction Solar Cells	Xinming Li National Center for Nanoscience and Technology, China
11:50-14:00 PM	Lunch Break	

Thursday afternoon, December 3		
Room A		
Session: Organic and Hybrid Thermoelectrics		Chair: Emiliano Bilotti
14:00-14:25 PM	A07: Understanding and Improving Thermoelectric Properties of PEDOT:PSS Films	Qingshuo Wei National Institute of Advanced Industrial Science and Technology (AIST) , Japan
14:25 -14:50PM	A08: The enhanced TE properties of conducting polymers by regulating the molecular structure	Qin Yao Shanghai Institute of Ceramics, CAS, China
14:50 -15:15 PM	A09: Flexible n-type Thermoelectric Films based on Bismuth Selenide Nanoplates/Polyvinylidene Fluoride Composite	Huihui Huang Shenzhen University, China
15:15 -15:40PM	A10: Organic Thermoelectrics: towards Processability, Low Costs and Flexibility	Emiliano Bilotti Queen Mary University of London , UK
15:40-16:00PM	Session Break	
16:00-16:25PM	A11: Hybrid inorganic/organic superlattices for thermoelectric energy conversion	Chunlei Wan Tsinghua University, China
16:25-16:50PM	A12: The Influence of Molecular Configuration on the Thermoelectrical Properties of Poly(3-hexylthiophene)	Sanyin Qu Shanghai Institute of Ceramics, CAS, China
Session: Cancer Nanotechnology		Chair: Chunlei Wan
16:50-17:15PM	A13: Targeted Delivery of Nitric Oxide for Enhanced Photodynamic Therapy Using Multi-functional Nanoplatfoms	Jingang Liu East China University of Science and Technology (ECUST), China
17:15-17:40PM	A14: Nanomaterials-mediated RF Hyperthermia: Progress and Challenge	Xiaoming Liu Beijing University of Posts and Telecommunications, China
18:00PM	Dinner Social	

Friday morning, December 4**Room A****Session: Nanomaterials and Nanostructures II Chair: Wengang Bi**

8:30-9:00AM	A15: Application of self-assembly technique in energy	Xiaoyu Yang (keynote) Wuhan University of Technology, China
9:00-9:25AM	A16: Surface plasmon resonance properties of copper nanostructures and their photochemical applications	Kosuke Sugawa Nihon University, Japan
9:25-9:50AM	A17: Spontaneous growth of Au nanoparticles onto CdS, ZnS or PbS thin films for electrochemical immunosensors	Hongcheng Pan Guilin University of Technology, China
9:50-10:15AM	A18: Magneto optics in conical quantum dot ensemble	David Hayrapetyan Russian-Armenian (Slavic) University, Armenian
10:15-10:35AM	Session Break	
10:35-11:00AM	A19: Tuning the novel properties of the low-dimensional perovskite oxide heterostructures by interfacial effects and oxygen vacancies	Haizhong Guo Institute of Physics, CAS China
Session: General I Chair: Xiaoyu Yang		
11:00-11:20AM	A20: Studies on Performance Improvement of LCD Displays and Solid-State Lighting with Quantum Dots Nanomaterials	Wengang Bi Hebei University of Technology, China
11:20-11:45AM	A21: Subwavelength microstructure-induced acoustical or optical response in the hierarchical, fractal and ultralight aerogels	Ai DU Tongji University, China
11:45-12:10AM	A22: Nanofabrication combining focused ion beam with diamond tool nano cutting	Zongwei Xu Tianjin University, China
12:10-12:35PM	A23: Electrocaloric polymers : direct measurements and thermodynamic cycles	Sebastien Pruvost Institut National des Sciences Appliquées, France
12:35-14:00 PM	Lunch Break	

Friday afternoon, December 4 Room A		
Session: Nanomaterials and Nanostructures III Chair: Jiwon Seo		
14:00-14:25 PM	A24: Structural and mechanical properties of nanocomposite nc-TiN/a-(TiB ₂ , BN) monolayers and Ti/TiB ₂ multilayers	Yaogen Shen City University of Hong Kong, Hong Kong
14:25 -14:50PM	A25: Magneto plasmonic nanostructures for theranostic applications	Alejandro Gomez Roca Magnetic Nanostructures Research group, Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain
14:50 -15:15 PM	A26: Photoluminescence and photocurrent characteristics of lead sulfide nanostructures for photovoltaic applications	Eunsoon Oh Chungnam National University, Korea
15:15 -15:40PM	A27: Oxygen vacancy control of electronic transport in multiferroic tunnel junctions	Jacobo Santamaría Sánchez-Barriga Universidad Complutense de Madrid, Spain
Session Break & Poster		
15:40-16:10PM	P1: Electronic Structure of Energy-Related Material Characterized by In Situ X-Ray Absorption Spectroscopy	Yingrui Lu Tamkang University, Taiwan
Session: General II Chair: Yaogen Shen		
16:10-16:35PM	A28: Ferroelectricity and magnetoelectric coupling in superlattices composed of non-ferroic components	Jiwon Seo Yonsei University , Korea
16:35-17:00PM	A29: Green light absorbing organic photodiode stacked on silicon CMOS image sensors	Yeong Suk Choi Samsung Electronics, SAIT, Korea
17:00 -17:25PM	A30: Nanoengineering of MoS ₂ electrocatalysts for efficient hydrogen evolution reaction	Qingsheng Gao Jinan University, China
18:00PM	Dinner Social	

Saturday morning, December 5**Room A****Session: LED****Chair: Hiroshi Maiwa**

8:30-8:55AM	A31: A hole accelerator for energizing holes and facilitating the injection for InGaN/GaN light-emitting diodes	Zihui Zhang Hebei University of Technology , China
8:55-9:20AM	A32: Efficiency droop in Gallium Nitride based light-emitting diodes: physical mechanisms and technological remedies	Giovanni Verzellesi Università di Modena e Reggio Emilia, Italy
9:20-9:45AM	A33: Thermally Resistant Siloxane Hybrid Materials for LED Encapsulants	Byeong-Soo Bae Lab. Optical Materials & Coating (LOMC), KAIST, Korea
9:45-10:10AM	A34: Time-resolved and temperature dependent photoluminescence investigation of III-Nitride based green LEDs grown on Si-substrate by MOCVD	Zhe Chuan Feng Guangxi University, China
10:10-10:30AM	Session Break	
Session: General III Chair: Giovanni Verzellesi		
10:30 -10:55AM	A35: A Bio-Inspired Superhydrophilicity Patterned Superhydrophobic Surface for Efficient Fog Harvesting	Peng Wang King Abdullah University of Science and Technology, Saudi Arabia
10:55-11:20AM	A36: Electrocaloric Properties of PZT-based Ceramics and lead-free ceramics and crystals	Hiroshi Maiwa Shonan Institute of Technology , Japan
11:20-11:45AM	A37: Recent development in oxygen transport membranes	Pierre-Marie Geffroy Centre Européen de la Céramique, SPCTS-CNRS, France
11:45-14:00 PM	Lunch Break	

Saturday afternoon, December 5

Room A

Session: Nanomaterials and Nanostructures IV Chair: Chun Li

14:00-14:25 PM	A38: Enhanced photoelectrochemical water splitting on surface-modified (Cu ₂ Sn) _x Zn ₃ (1-x)S ₃ nanocrystal films	Yubin Chen Xi'an Jiaotong University, China
14:25 -14:50PM	A39: Novel routes for nanofabrication by optothermal manipulation of plasmonic particles	Theobald Lohmueller Ludwig-Maximilians-Universität München, Germany
14:50 -15:15 PM	A40: Measurement of Plasmon Mediated Two-Photon Luminescence Action Cross-Sections of Single Gold Bipyramids, Dumbbells and Hemispherically-Capped Cylindrical Nanorods	James W. M. Chon Swinburne University of Technology, Australia
15:15 -15:40PM	A41: Retardation effects on plasma waves in low dimensional materials	Hai-Yao Deng Kwansei Gakuin University, Japan
15:40 -16:00PM	Session Break	
16:00-16:25PM	A42: Controllable growth layered chalcogenide for photodetectors	Chun Li University of Electronic Science and Technology of China, China
16:25-16:50PM	A43: Novel Design of Thermal Energy-harvesting Device Using Van Der Waals (vdW) Heterostructures	Shijun Liang Singapore University of Technology and Design, Singapore
18:00PM	Dinner Social	