## AFM-18: Program at Glance

### Date: Monday, 27/Aug/2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30am - 6:00pm</td>
<td>Reg: Registration</td>
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<tr>
<td></td>
<td>Hotel Lobby</td>
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<tr>
<td>1:50pm - 2:00pm</td>
<td>OPC: Opening Ceremony Dae Joon Kang, Yongbing Xu</td>
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<tr>
<td></td>
<td>Ballroom 1 +2</td>
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<tr>
<td>2:00pm - 6:00pm</td>
<td>Plen: Plenary Session</td>
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<td>Ballroom 1 +2</td>
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### Date: Tuesday, 28/Aug/2018

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30am - 12:00am</td>
<td>ABB: Advances in Biosensors and Biomaterials</td>
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<td>Ballroom 2</td>
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<tr>
<td>8:30am - 12:00am</td>
<td>AMCM: Advances in Multifunctional Composite materials</td>
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<td>Ballroom 1</td>
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<tr>
<td>8:30am - 12:00am</td>
<td>WSS-1: WUN Spintronic Symposium</td>
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<td>Ballroom 3</td>
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<tr>
<td>2:00pm - 6:00pm</td>
<td>WSS-2: WUN Spintronic Symposium &amp; Introduction to time and spin resolved ARPES system</td>
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<td>Ballroom 3</td>
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<tr>
<td>2:00pm - 6:00pm</td>
<td>AOP&amp;ESCD: Advances in Optics, Photonics, Energy Storage and Conversion Devices</td>
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<td>Ballroom 2</td>
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<tr>
<td>2:00pm - 6:30pm</td>
<td>ATF: Advances in Thin Films</td>
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<td></td>
<td>Ballroom 1</td>
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<tr>
<td>8:30am - 6:00pm</td>
<td>Poster: Poster Presentation</td>
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<td>Hotel Lobby</td>
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### Date: Wednesday, 29/Aug/2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30am - 12:15am</td>
<td>AC: Advances in Catalysis, Functional Thin Films, Polymers and Ceramics</td>
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<td></td>
<td>Ballroom 2</td>
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<tr>
<td>8:30am - 12:00am</td>
<td>WSS-3: WUN Spintronic Symposium</td>
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<td>Ballroom 1</td>
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<tr>
<td>2:00pm - 2:30pm</td>
<td>EDT: Editorial Session</td>
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<td>Ballroom 1</td>
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<tr>
<td>2:30pm - 6:00pm</td>
<td>Keynote session</td>
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### Date: Thursday, 30/Aug/2018

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30am - 11:00am</td>
<td>AMCM-2: Advances in Multifunctional Composite materials</td>
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<td>Ballroom 1</td>
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<tr>
<td>8:30am - 11:00am</td>
<td>LDNM: Low dimensional, nano and 2D materials for optical devices, Flexible Electronics, Sensors &amp; Composites</td>
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<td>Ballroom 2</td>
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</table>
Presentations

Plen: Plenary Session;

Time: Monday, 27/Aug/2018: 2:00pm - 6:00pm · Location: Ballroom 1 +2

Session Chair: Wenqing Liu,

2:00pm - 2:45pm
Surface Plasmonic Effect Enhanced Light Emitting and Lasing of Nitride-based Quantum Wells
Rong Zhang
Xiamen University, P.R.China;

2:45pm - 3:30pm
Cluster modification on Dirac quantum materials
Guanghou Wang\textsuperscript{1,2}
\textsuperscript{1}School of Physics, Nanjing University, Nanjing, China; \textsuperscript{2}National Laboratory of Solid State Microstructures, Nanjing University, China; ghwang@nju.edu.cn

3:30pm - 4:15pm
Materials Innovation for Better Living -Some Progresses in Carbon Nanomaterials
Jiaxing Huang
Northwestern University, United States of America; jiaxing-huang@northwestern.edu

4:15pm - 4:30pm Coffee break

Session Chair: Imran Shakir
4:30pm - 5:15pm

Multi-Functional Nanopatterning Lithography Technology for Fabrication of 3D Nanostructures and Its Applications
JaeJong Lee
Korea Institute of Machinery and Materials, Korea, Republic of (South Korea); jilee@kimm.re.kr

5:15pm - 6:00pm
Complex magnetic domain structures in oxides: physical origin and device application
Jian Shen
Fudan University, P.R.China

6:00pm-6:05pm
Closing Speech
ABB: Advances in Biosensors and Biomaterials

Time: Tuesday, 28/Aug/2018: 8:30am - 12:00pm · Location: Ballroom 2

Session Chair: Imran Shakir

8:30am - 8:45am

Engineering protein interfaces yields ferritin disassembly and reassembly under benign experimental conditions

Hai Chen
China Agricultural University, China, People's Republic of; chenhai2509@163.com

8:45am - 9:00am

DNA Nanocomplex Mimics Oncolytic Virus for Cancer Therapy

Maling Gou, Li Luo, Ting Du, Tianyi Kang, Meimei Xiong, Qianqian Zhang, Yuquan Wei
State Key Laboratory of Biotherapy and Cancer Center, West China Hospital, Sichuan University; goumaling@scu.edu.cn

9:00am - 9:15am

A dual Functional Synthetic Starch based Sponge for Hemostatic Application

Yang Xiao, Changcan Shi, Yakai Feng

1Tianjin University, Tianjin; 2Wenzhou Institute of Biomaterials and Engineering, Wenzhou; 3Wenzhou Medical University, Wenzhou; 4Tianjin University-Helmholtz-Zentrum Geesthacht, Tianjin; 18722256576@163.com

9:15am - 9:30am

Preparation of Amphiphilic Nanoparticles Based on PEG-PLLA Incorporated with Protoporphyrin and Their Applications in Cell Imaging and Drug Delivery

Rong Zhang
Changzhou University, China, People's Republic of; rzhang@cczu.edu.cn
AMCM: Advances in Multifunctional Composite materials

Time: Tuesday, 28/Aug/2018: 8:30am - 12:00am · Location: Ballroom 1
Session Chair: Danielle S. Rhen,

8:30am - 8:45am

Functionally Graded Material (FGM): Numerical Evaluation of Mixed-mode Stress Intensity Factors

Jin-Rae Cho
Hongik University, Korea, Republic of (South Korea); jrcho@hongik.ac.kr

8:45am - 9:00am

Intelligent composite materials as actuators and sensors

Xuemin Du
Institute of Biomedical and Health Engineering (IBHE), Shenzhen Institutes of Advanced Technology (SIAT), Chinese Academy of Sciences (CAS), China, People's Republic of; xm.du@siat.ac.cn

9:00am - 9:15am

Study of photocatalytic asset of PbTiO3 synthesized by eco-friendly mechanochemical method

Vishwas Bhaskar Gaikwad
K.T.H.M. College, Nashik, India; dr.gaikwadbv@rediffmail.com

9:15am - 9:30am

Design of NS@PCE core-shell nanoparticles and its application in cementitious materials

Yue Gu
Hohai university, China, People's Republic of; gubetter@163.com

9:30am - 9:45am

Hydrothermal synthesis of TiO2 nanoparticles using acid treatment for gas sensing applications

Gotan Jain
Commerce and S.P.H.J. Science College, Chandwad, India; gotanjain@rediffmail.com

9:45am - 10:00am

Ultrabright signal amplification system based on nano spherical polyelectrolyte brushes

Hajar Masoomi, Yao Wang, Xiao Xia Fang, Peirui Wang, Hong Xu, Hong Chen Gu
School of Biomedical Engineering, Med-X Research Institute, Shanghai Jiao Tong University, Shanghai 200030, PR China; h.masoomi@sjtu.edu.cn

10:00am-10:15am

Smart Building Materials by the Incorporation of Thermoregulating Microcapsules

Ana M. Borreguero, Angel Serrano, Manuel Carmona, Daniel Lopez-Pedrajas, Juan F. Rodriguez
University of Castilla, Spain; Juan.RRomero@uclm.es

10:15am-10:35am

Coffee break
WSS-1: WUN Spintronic Symposium

Time: Tuesday, 28/Aug/2018: 8:30am - 12:00am  ·  Location: Ballroom 3
Session Chair: Liang He

8:30am - 8:40am
Opening speech
Prof. Youwei Du, The academician of the Chinese Academy of Science, Nanjing University, P.R. China, dyw@nju.edu.cn

8:40am - 9:05am
Ultrafast photo-induced multimode antiferromagnetic spin dynamics in exchange-coupled Fe/RFeO3 (R=Er or Dy) heterostructures
Zhaohua cheng Institute of Physics, Chinese Academy of Sciences, P.R. China, zhcheng@iphy.ac.cn

9:05am - 9:30am
Advanced Nanoscale Magnetic Tunnel Junctions for Low Power Computing
Weisheng Zhao, Beihang University, P.R. China, weisheng.zhao@buaa.edu.cn

9:30am - 9:55am
When Multiferroics Meets Valleytronics—Emergent Phenomena in Ferrovalley Materials
Chungang Duan, East China Normal University, P.R. China, cgduan@clpm.ecnu.edu.cn

9:55am - 10:20am
Flat bands and emergent ferromagnetic ordering in Fe$_3$Sn$_2$ kagome lattices
Changquan Zeng, University of science and technology of China, P.R. China, cgzeng@ustc.edu.cn

10:20am-10:40am coffee break
Session Chair, Chungang Duan

10:40am - 11:05am
Tuning RKKY Effect and Its Application to STT-MRAM
Tai Min, Xi'an jiaotong University, P.R. China, tai.min@xjtu.edu.cn

11:05am-11:30am
Modulated spin orbit torques in ferromagnetic/non-ferromagnetic metals heterojunctions
Kangkang Meng, Yong Jiang, University of Science & Technology Beijing, P.R. China, yjiang@ustb.edu.cn

11:30am-11:55am
Self-consistent determination of spin Hall angle and spin diffusion length in Pt and Pd
Bingfeng Miao Haifeng Ding, Nanjing University, P.R. China, hfding@nju.edu.cn
WSS-2: WUN Spintronic Symposium

Time: Tuesday, 28/Aug/2018: 2:00pm - 6:00pm · Location: Ballroom 3
Session Chair: Changgan Zeng

2:00pm - 2:25pm
Robust manipulation of magnetic property in ferromagnetic semiconductor (Ga,Mn)As
Jianhua Zhao, Institute of Semiconductors, CAS, P.R. China, jzhao@red.semi.ac.cn

2:25pm - 2:50pm
Modulation of magnetization dynamics in dual-free-layer system by inserting ultra-thin rare-earth layers
Ya Zhai, Southeast University, P.R. China, yazhai.2009@qq.com

2:50pm-3:15pm
Computational design of two-dimensional ferromagnetic materials
Jinlan Wang, Southeast University, P.R. China, jlwang@seu.edu.cn

3:15pm-3:40pm
Towards ideal topological materials: Comprehensive database searches using symmetry indicators
Xiangan Wan, Nanjing University, P.R. China, xgwan@nju.edu.cn

3:40pm-4:05pm
Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms
Minghu Pan, Huazhong University of Science & Technology, P.R. China, minghupan@hust.edu.cn

4:05pm-4:25pm coffee break

4:25pm-5:30pm
Introduction to time and spin resolved ARPES system
Yongbing Xu, Nanjing University, P.R. China,
ATF: Advances in Thin Films

**Time:** Tuesday, 28/Aug/2018: 2:00pm - 6:30pm · **Location:** Ballroom 1

**Session Chair:** Gotan Jain

1. **Influence of the Source/Drain Material on Oxide Semiconductor Thin Film Transistors**
   Yi Liang, Wen Yu, Junchen Dong
   Peking University, China, People's Republic of; eliangyi@pku.edu.cn

2. **Effect of N2-purging and N2-annealing on chemical bath deposited CdS thin films**
   Buddhika Senarath Dassanayake¹, K.L.G. Sankaipa², R.K.K.G.R.G. Kumarasinghe³, W.G.C. Kumarage⁴agina
   ¹University of Peradeniya, Sri Lanka, Sri Lanka; ²Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka; buddhid@gmail.com

3. **Potentiostatically Electrodeposited Lead Telluride films and their Characterizations**
   Anil Bhanudas Gite¹, Vishwas B Gaikwad², Sandesh R Jadkar¹, Gotan Hiralal Jain³, Habbib M Pathan⁴
   ¹SNJB's KKHA Arts SMGL Comm and SPHJ Sci College Chandwad Nashik Maharashtra India, India; ²Principal, KTHM College Nashik, Maharashtra, India; ³Advance Physics Laboratory, Department of Physics, Savitsribai Phule Pune University, Pune 411 007 India; gite.anil@gmail.com

4. **Opto-electric properties of chemical bath deposited CdS films fabricated under variable and steady bath conditions**
   Rajapaksha Karunadhipathi Katagaha Rasika Gayan Kumarasinghe¹, W.G.C. Kumarage¹, E. P. Wijesundera¹, N. Kaur⁴, E. Comini⁴
   ¹Postgraduate Institute of Science, University of Peradeniya, Sri Lanka, Sri Lanka; ²Department of Physics, University of Peradeniya, Peradeniya, Sri Lanka; ³Department of Physics, Faculty of Science, University of Kelaniya, Kelaniya, Sri Lanka; ⁴Department of Information Engineering, Universita Degli Studi Di Brescia, Brescia, Italy; gayanb1988@gmail.com

5. **Smart Regulation of Interface Adhesion for Multifunctional Applications**
   Liping Heng
   Beihang University, China, People's Republic of; henglp@iccas.ac.cn

6. **Acetylene thin film materials for magneto-optics**
   Gunther Hennrich
   Universidad Autónoma de Madrid, Spain.; gunther.hennrich@uam.es

7. **Ultra-low Write Current Density and Mult-iresistive State in Fully-patterned All-perovskite Ferroelectric Tunnel Junctions**
   Weichuan Huang¹, Zhen Luo¹, Yuewei Yin¹, Xiaoguang Li¹,²
   ¹Hefei National Laboratory for Physical Sciences at the Microscale, Department of Physics, and CAS Key Laboratory of Strongly-coupled Quantum Matter Physics, University of Science and Technology of China, Hefei 230026, China; ²Collaborative Innovation Center of Advanced Microstructures, Nanjing, 210093, China; yyw@ustc.edu.cn

8. **Effect of temperature on the characteristics of narrow bandgap Bi2Te3/Sb2Te3 p-n junction**
   Xiaojian Li, Chaogang Lou
   School of Electronic Science and Engineering, Southeast University, China, People's Republic of; xilec@seu.edu.cn

**4:00pm-4:25pm coffee break**
4:25pm - 4:40pm
A Sandwich-like, Breathable and Unperceivable Epidermal Electrode
Yanqiu Li, Bin Hu
Huazhong University of Science and Technology, China, People's Republic of; irjames@hust.edu.cn

4:40pm - 4:55pm
Synthesis of ZnO nanorods by spray pyrolysis for gas sensing application
Ganesh Patil, G. H. Jain
SPHJ Science College, Chandwad, India; ganeshpatil_phy@rediffmail.com

4:55pm - 5:10pm
Effect of precursor concentration on structural, optical, electrical and gas sensing properties of nanostructured tin oxide thin films
Ganesh Eknath Patil
SNJB’s KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, India; ganeshpatil_phy@rediffmail.com

5:10pm - 5:25pm
Synthesis of ZnO nanorods and tripods by hydrothermal route and their gas sensing properties
Sarika Digambar Shinde
SNJB’s KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, India; sarikagotan@rediffmail.com

5:25pm - 5:40pm
Adaptive Crystallite Kinetics in Homogenous Bilayer Oxide Memristor for Neuromorphic Computing
Yin, Jun; Zeng, Fei; Wan, Qin; Sun, Yiming; Dong, Yuan; Liu, Jialu; Li, Guoqi
Tsinghua University, Beijing, China; yinj16@mails.tsinghua.edu.cn

5:40pm - 5:55pm
Shape-programmed actuation of stimuli-responsive polymer composites
Zhang Lidong
East China Normal University, China; ldzhang@chem.ecnu.edu.cn

5:55pm - 6:10pm
Effect of Metallic buffer layer to modulate Optical and Electrical properties of ZnO: Ga heterostructures
Hassan, Ali; Jin, Yuhua; Chao, Feng; Irfan, M; Jiang, Y
Beijing university of Technology, China; 15alirao@gmail.com

6:10pm - 6:25pm
The effects of different electrodes on the ferroelectric hysteresis loop of single-crystal LiNbO3 thin film
Bai, Xiaoyuan; Shuai, Yao; Gong, Chaoguan; Wu, Chuangui; Luo, Wenbo; Böttger, Roman; Zhou, Shengqiang; Zhang, Wanli
University of Electronic Science and Technology, China; 1913492407@qq.com
Microwave-Assisted Molten-Salt Approach: Simple but Robust Platform to Achieve Rapid and Macroscopic Synthesis of High-Performance Graphitic Carbon Nitride Photocatalysts
Huijuan Jing, Huanhuan Liu, Deliang Chen
Zhengzhou University, China, People's Republic of; dlchennano@qq.com

Concerted ionic diffusion mechanism in K-Birnessite electrode and its excellent K storage performance
Ang Gao, Nannan Guo, Daping Qiu, Senhao Wang, Xia Lu, Feng Wang, Ru Yang
Beijing University of Chemical Technology, China, People's Republic of; anggaobuct@163.com

Conformal and continuous deposition of bifunctional cobalt phosphide layers on p-silicon nanowire arrays for improved solar hydrogen evolution
Sitaramanjaneva Mouli Thalluri, Lifeng Liu
International Iberian Nanotechnology Laboratory (INL), Braga, Portugal, Portugal; lifeng.liu@inl.int

Electrochemical properties of Si-polyacrylonitrile composite anode for flexible batteries
Hae-bin Park
Gyounsgang National University, Korea, Republic of (South Korea); phb0121@naver.com

Ag nanoparticles and Graphitic Carbon Nitrides co-decorated TiO2 nanocomposites for enhanced photocatalytic activity under visible light
Hongwei Tian, Bo Zhou, Xinyue Cao, Yaxin Li
Jilin University, China, People's Republic of; tianhw@jlu.edu.cn

4:00pm - 4:20pm coffee break
**Poster: Poster Presentation**

*Time:* Tuesday, 28/Aug/2018: 2:00pm - 6:00pm  
*Location:* Hotel Lobby

**Poster: 1** Formation and Characteristic of Germanium Epitaxial Films through Two Step Processes  
**Juhyun Bae, Nakjun Choi, Ilsub Chung**  
School of Electronics and Electrical Engineering, Sungkyunkwan University, Suwon, 16419, Republic of Korea; impressi@skku.edu

**Poster: 2** Modelling of graphene thermionic energy devices beyond Dirac approximation: a full-band tight-binding approach  
**Yueyi Chen**<sup>1,2</sup>, Yee Sin Ang<sup>1,2</sup>, L. K. Ang<sup>1,2</sup>  
<sup>1</sup>Engineering product Development, Singapore University of Technology and Design, Singapore;  
<sup>2</sup>SUTD-MIT International Design Center, Singapore University of Technology and Design, Singapore; yueyi.chen@mymail.sutd.edu.sg

**Poster: 3** Forced Electrical Stress based Direct Current Generator Via Triboelectric Effect  
**Minki Kang, Hong-Joon Yoon, Wanchul Seung, Sang-Woo Kim**  
School of Advanced Materials Science and Engineering, Sungkyunkwan University; kang0824@skku.edu

**Poster: 4** Site-Specific Delivery of Hybrid Upconversion Nanoparticles for Photo-Activated Multimodal Therapies of Glioblastoma  
**Hsin-Cheng Chiu**  
National Tsing Hua University, Taiwan; hscchiu@mx.nthu.edu.tw

**Poster: 5** Antiferromagnetic ordering of lithium deintercalated Fe<sub>1-x</sub>ZnxPO<sub>4</sub>F cathode material  
**Jae Yeon Seo, Mun Hwan Kim, Hyunkyung Choi, Chul Sung Kim**  
Kookmin university, Korea, Republic of (South Korea); libattery@kookmin.ac.kr

**Poster: 6** Tunable Arsenene bandgap in Arsenene-Graphene heterostructures  
**Zhen Luo**<sup>1</sup>, Dedong Han<sup>1</sup>, Junchen Dong<sup>1</sup>, Hujin Li<sup>1</sup>, Wen Yu<sup>1</sup>, Yi Liang<sup>1</sup>, Shengdong Zhang<sup>1</sup>, Xing Zhang<sup>1</sup>, Yi Wang<sup>1</sup>  
<sup>1</sup>Institute of Microelectronics, Peking University, China, People's Republic of;  
<sup>2</sup>Shenzhen Graduate School, Peking University, Shenzhen 518055, China; zhen@pku.edu.cn

**Poster: 7** Crystal structure and magnetic properties of fluorophosphates Na<sub>2</sub>Fe<sub>0.9</sub>Mn<sub>0.1</sub>PO<sub>4</sub>F cathode material  
**Jae Yoon Seo, Mun Hwan Kim, Hyunkyung Choi, Chul Sung Kim**  
Kookmin university, Korea, Republic of (South Korea); libattery@kookmin.ac.kr

**Poster: 8** High-Performance Planar Crosslinked Polyaniline Based Microsupercapacitors  
**Wen He, Dae Joon Kang**  
SKKU, Korea, Republic of (South Korea); djkang@skku.edu

**Poster: 9** Structural color filters with improved color purity by suppressing higher-order resonances  
**Sung Yong Han**<sup>1</sup>, Kyu-Tae Lee<sup>1</sup>, Hui Joon Park<sup>1</sup>  
<sup>1</sup>Department of Energy System Research, Ajou university, Korea, Republic of (South Korea);  
<sup>2</sup>Department of Physics, Inha University, Republic of (South Korea); sincert057@naver.com

**Poster: 10** Fabrication of Superhydrophobic Surfaces Using Electrohydrodynamic Lithography  
**Hyeon je Park, Jaeseok Hwang, Jaejong Lee, Dae Joon Kang**  
SKKU, Korea, Republic of (South Korea); djkang@skku.edu
Poster: 13 Silk Film supported reduced Graphene Oxide Field Effect Transistor
Shihui Hu, Zhongrong Wang, Yunfang Jia
Nankai University, China, People's Republic of; 1120170101@mail.nankai.edu.cn

Poster: 14 The Effect of Talc Concentration on the Peeling Characteristics of UV-curable Acrylic Coating Agent
Chul Woo Lee, Joo Il Park, Seung Han Woo
Hanbat National University, Korea, Republic of (South Korea); cwlee@hanbat.ac.kr

Poster: 15 Growth of nb dopped MoS2 using RF sputtering and its physical properties
Jae-Hwan Jung, Ahrun Sohn, Minki Kang, Sang-Woo Kim
Sungkyunkwan Univ., Korea, Republic of (South Korea); jaymilk1@gmail.com

Poster: 16 Supercapacitor performance of carbon nanofiber electrodes derived from 6FDA-based polyimides
Kyung-Hye Jung, So Jeong Kim, Ye Ji Son, Byeongil Jeon
Daegu Catholic University, Korea, Republic of (South Korea); khjung@cu.ac.kr

Poster: 17 High sensitive piezoelectric acoustic sensor based on two dimensional MoS2
Hyoung Taek Kim, Sang-Woo Kim
Sungkyunkwan Univ., Korea, Republic of (South Korea); gudxor@skku.edu

Poster: 18 Growth of Large-Area AB-Stacked Bilayer Graphene on h-BN/Pt Foils by Chemical Vapor Deposition
Jae Eun Kim, Young Jin Kim
Korea Institute of Science and Technology, Korea, Republic of (South Korea); jenjen@kist.re.kr

Poster: 19 Three-dimensional perovskite-type oxide nano-fiber webs for soot oxidation
Jae Eun Kim1,2, Jae Woo Kim1, Hak Yong Kim1
1Hanbat National University, Korea, Republic of (South Korea); 2Yonsei University, Korea, Republic of (South Korea); jipark94@hanbat.ac.kr

Poster: 20 High photoluminescence properties of transparent nanofiber using C-dots
Dawon Kang1, Chohye Lee1, Hak Yong Kim1
1Department of BIN Convergence Technology, Chonbuk National University, Republic of Korea (South Korea); 2Department of Organic Materials & Fiber Engineering, Chonbuk National University, Republic of Korea (South Korea); dw_k1119@naver.com

Poster: 21 Study on the force transfer by external force to a molecular level using spiropyran molecular sensor covalently linked polyurethane
Sang Jin Park1, Seol hee Jeon1, Taehak Kim1, Bong Gi Kim2, Hui Joon Park1
1 Ajou university, Korea, Republic of (South Korea); 2 Konkuk university, Korea. Republic of (South Korea); goodgo01@naver.com

Poster: 22 Dopant-free hole transport materials for p-i-n planar perovskite solar cells paasivating defect site at the interface
Ye-Ji Kim, Young-Jin Kim
Daegu Catholic University, Korea, Republic of (South Korea); yjkim@cu.ac.kr

Poster: 23 3p18-4-Conjugated Polymeric Nanohybrids for Enhanced Breast Cancer Targeting in Photodynamic Therapy
Bo Min Kwon, Younghwan Kwon
Daegu University, Korea, Republic of (South Korea); y_kwon@daegu.ac.kr

Poster: 24 Thermal and Mechanical Properties of Porous Polymeric Composites Prepared by UV-Curing Process
Seung Han Woo, Divine Damertey Sewu, Joo Il Park, Chul Woo Lee
Hanbat National University, Korea, Republic of (South Korea); shwoo@hanbat.ac.kr
Poster: 26 Electrospun PAN/PAA nanocomposite with high transparency and superfine fibrils
MINJU LEE1, Yanan Liu1, Hak yong Kim1,2
1Department of BIN Convergence Technology, Chonbuk National University, Republic of Korea; 2Department of Organic Materials & Fiber Engineering, Chonbuk National University, Republic of Korea; minju_4@naver.com

Poster: 27 Microcavity-integrated wire-grid polarizers with low reflections
Seung Hu Lee1, Hui Joon Park1, Kyu-Tae Lee2
1Ajou University, Korea, Republic of (South Korea); 2Inha University, Korea, Republic of (South Korea); ws9288@ajou.ac.kr

Poster: 28 One-step Sonophotochemical Synthesis of Highly Dispersed AgNPs Anchoring RGO-based Nanocomposite for Plasmonic Enhanced Photocatalytic Performance
Fei Li
Jiangxi University of Technology, Nanchang, China, People's Republic of; tianxianghunter@126.com

Poster: 29 Oxygen Pressure Control of IGZO Thin Film Transistors with Al2O3 Dielectric Layers by Atomic Layer Deposition
Huijin Li, Dedong Han, Yi Liang, Zhen Luo, Yi Wang
Peking University, China, People's Republic of; lihuijin@pku.edu.cn

Poster: 30 The correlations between particulate matter (PM2.5) and depression: a study of interactive machine learning and tracking for zebrafish behavior
Tai-Yue Li, Ming-Kung Ho, Ashish C. Gandhi, Sheng Yun Wu
National Dong Hwa University, Taiwan; tim312508@gmail.com

Poster: 31 Controllable and Reversible Doping in Layered MoTe2 Transistors through Electrothermal Process
Yen-Fu Lin
National Chung Hsing University, Taiwan; yenfulin@nchu.edu.tw

Poster: 32 Highly sensitive Piezoelectric Nanogenerators based on micropatterend of P(VDF-TrFE) film for self-powered pressure sensors
Ali Nawaz, Hong-Joon Yoon, Sang-Woo Kim
Sungkyunkwan University, Korea, Republic of (South Korea); alinawaz1009@gmail.com

Poster: 33 Semitransparent colorful perovskite solar cell integrated with multilayer dielectric mirror
Song Ah Ok1, Ji-Yun Jang1, Sang Jin Park1, Kyu-Tae Lee2, Hui Joon Park1
1Department of Energy System Research, Ajou University, Republic of (South Korea); 2Department of Physics, Inha University, Republic of (South Korea); oksa4885@gmail.com

Poster: 34 Nanowires of KP15 produced by liquid exfoliation
Nan Tian, Dammin Liu, Bo Zhou, Yanhan Yang, Guoqing Zhang, Dundan Zhang, Yongzhe Zhang
Beijing University of Technology, China, People's Republic of; 837549356@qq.com

Poster: 35 Effective polysulfides trapping by ferroelectric coupled C/S composite cathode for Lithium–Sulfur Battery
Sumair Imtiaz, Sana Ullah, Guang-Ping Zheng
The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); sana.ullah@connect.polyu.hk

Poster: 36 Robust preparation of quantum dots on few-layer MoS2 by soft hydrogen plasma and post annealing
Di Cai, Shaoping Xiao, Xiuimei Zhang, Haiyan Nan, Xiaofeng Gu, Zhenhua Ni, Kostya {Ken} Ostrikov
Jiangnan University, China, People's Republic of; caidijndx@163.com

Poster: 37 Layer-controllable graphene by plasma thinning and post-annealing
Lufang Zhang, Shaoeng Feng, Shaoping Xiao, Gang Shen, Xiuimei Zhang Zhang, Haiyan Nan, Xiaofeng Gu, Kostya {Ken} Ostrikov
Jiangnan University, China, People's Republic of; 2932467794@qq.com

Poster: 38 Shape-uniform, High-quality Monolayered MoS2 Crystals for Gate-tuneable Photoluminescence
Xiumei Zhang
Jiangnan University, China, People's Republic of; zxm_010103@163.com
Poster: 39 ACH11 peptides modified vascular biomaterials for improvement of the blood and tissue compatibility
Jing Zhao, Lingchuang Bai, Qian Li, Yakai Feng
University-Helmholtz-Zentrum Geesthacht, China, People's Republic of; 2834734420@qq.com

Poster: 40 Biofunctionalization of Electrospun PCL-PIBMD/SF Vascular Grafts with PEG and Cell-Adhesive Peptides for Endothelialization
Lingchuang Bai, Jing Zhao, Bin Gao, Yakai Feng
University-Helmholtz-Zentrum Geesthacht, China, People's Republic of; lingchuangbai@tju.edu.cn

Poster: 41 Multi-targeting gene delivery system based on POSS and peptides with charge-reversal function for enhanced angiogenesis of HUVECs
Bin Gao, Lingchuang Bai, Jing Zhao, Yakai Feng
University-Helmholtz-Zentrum Geesthacht, China, People's Republic of; gaobin11@tju.edu.cn

Poster: 42 Preparation of iridium and the study of electrolysis water anode catalysis
Wenwen Zou, Wenjuan Cao, Junping Dong, Jiujun Zhang, Hongbin Zhao Zhao
Shanghai University, China, People's Republic of; zouwenwen95@shu.edu.cn

Poster: 43 Effect of N-doping on AZO Transparent Conducting Films
Junchen Dong, Dedong Han, Huijin Li, Xiaobin Zhou, Xing Zhang, Yi Wang
Feking University, China; junchendong@126.com

Poster: 44 MOF derived porous carbon for high-performance symmetrical supercapacitor
Xuecheng Chen, Shuai Zhang, Ewa Mijowska
Nanomaterials Physicochemistry Department, West Pomeranian University of Technology; xchen@zut.edu.pl

Poster: 45 Double Perovskite-Type Li(Y,Gd,La)MgWO6 Host Emission Materials: A Structure–Property Relationship
Weiguang Ran, Junpeng Xue, Byung Chun Choi, Jung Hyun Jeong
Pukyong National University, Korea, Republic of (South Korea); weiguangran@gmail.com

Poster: 46 Effect of La3+ ion doping on the performance and characteristics of Eu2+ ions in novel Sr3CeNa(PO4)2SiO4 phosphors
Yue Guo, Sung Heum Park, Byung Chun Choi, Byung Kee Moon, Jung Hyun Jeong
Pukyong National University, Korea, Republic of (South Korea); 1216069619@qq.com

Poster: 47 Green Synthesis of Boron Nitride nanorods with amino acid and boric acid
Haixu Wang, Guang Yang, Ning Wang, Rong Sun
Shenzhen Institutes of Advanced Technology, CAS, China, People's Republic of; ning.wang@siat.ac.cn

Poster: 48 Mössbauer studies of Ga-doped Ba2Co1.5Mg0.5(Fe0.99Ga0.01)12O22 hexaferrite
Lim, Jung Tae; Kim, Chul Sung
Kookmin University, Korea, Republic of South Korea; hisashi@kookmin.ac.kr

Poster: 49 A Single-crystal Thin Film Infrared Detector with Pillar-array Air Gap Based on Crystal Ion Slicing Technology
Luo, Jiarui; Luo, Wenbo; Shuai, Yao; Wu, Chuangui; Zhang, Wanli
University of Electronic Science and Technology; luojiaru12@163.com

Poster: 50 Compostie thin films based on the 2D FRET process: assembly, luminescence properties and its VOC sensing performance
Y.-M. Qine, Z. Lie, Jun Lue
Beijing University of Chemical Technology, China; lujun@mail.buct.edu.cn
AC: Advances in Catalysis, Functional Thin Films, Polymers and Ceramics

Time: Wednesday, 29/Aug/2018: 8:30am - 12:15am · Location: Ballroom 2

Session Chair: Mengning Ding

8:30am - 8:45am
Solution Combustion Synthesized-Porous Co3O4 Nanoparticles as Oxygen Evolution Reaction Catalysts in Alkaline Medium
Rose Anne E. Acedera, Mary Donnabelle L. Balela
Sustainable Electronic Materials Group, Philippines; roseenancedera@gmail.com

8:45am - 9:00am
Nanostructured MTMO as Electrocatalysts for Water Oxidation in Low Alkaline Medium
Charles Lois Ildeza Flores, Mary Donnabelle Lirio Balela
University of the Philippines Diliman, Philippines; ciflores@up.edu.ph

9:00am - 9:15am
Solution Growth of Nanoparticle Decorated ZnO Nanorods and Applications in Organic Dye Photodegradation and Antibacterial Activity
Heh-Nan Lin, Shang-Ming Yeh, Yu-Ren Chen, Cheng-En Tsai
National Tsing Hua University, Taiwan; hnlm@mx.nthu.edu.tw

9:15am - 9:30am
Boosting the Hydrogen Evolution Performance of Ruthenium Clusters Through Synergistic Coupling with Cobalt Phosphide
Junyuan Xu, Tianfu Liu, Junjie Li, Yuefeng Liu, Bingsen Zhang, Lifeng Liu
International Iberian Nanotechnology Laboratory (INL), Braga, Portugal, Portugal; lifeng.liu@inl.int

9:30am - 9:45am
Investigation of Redox Properties of Manganese Oxide Sorbents Based on Birnessite Using Temperature-Programmed Reduction
Arseniy Portnyagin1,2, Andrey Egorin1,2, Alexey Golikov1, Eduard Tokar1,2, Nina Didenko1, Dmitry Mashtalyar1, Valentin Avramenko1,2
1Institute of Chemistry, Far Eastern branch of Russian Academy of Sciences, Russian Federation; 2Far Eastern Federal University, Vladivostok, Russian Federation; arsuha@gmail.com

9:45am - 10:00am
Metal-supported Magnetic Nanoparticles as Heterogeneous Catalysts for Quinoline Hydrogenation in Water
M. Nasiruzzaman Shaikh, Abdul Nasar Kalanthoden
King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia; mshaikh@kfupm.edu.sa

10:00am - 10:15am
Microstructural Characterizations and Physical Properties of Ferroelectric Nanostructured Thin Films
Weiren Xia, Heng Wu, Yao Lu, Zhipeng Pei, Xinhua Zhu
Nanjing University, China, People's Republic of; xhzhu@nju.edu.cn

10:15am—10:30am coffee break

10:30am - 10:45am
High-entropy films with gradient compositions for combinatorial high-throughput Screening
Yong Zhang, Quo Wei Xing, Xue Hui Yan, Rui Xuan Li
USTB, China, People's Republic of; drzhangy@ustb.edu.cn

10:45am - 11:00am
Research on Corrosion Resistance of AZ31B Magnesium Alloy Micro-arc Oxidation Film
zhuhui zhang, guoying wei
China Jiliang University, China, People's Republic of; 1161308253@qq.com

11:00am - 11:15am

Resistive switching mechanism of RRAM based on BaxSr1-xTiO3 thin film grown by a hydrothermal method
Jie Zhu, Jing He, Jingjing Lu, Changcheng Ma, Zuqi Hu
Huazhong University of Science and Technology.; M201672049@mail.hust.edu.cn

11:15am - 11:30am

Novel fluorescent hyperbranched aliphatic polyestertetrazole as efficient probe for detecting Hg2+ in water
Hui-Juan Li1, Sheng-Qi Chen2, Peng-Yun Li1, Abdul Haleem1, Chuan-Shan Hu1, Xi-Chuan Li1, Wei-Xiang Xie1, Wei-Dong He1
1University of Science and Technology of China, China, People's Republic of; 2Anhui University of Chinese Medicine, China, People's Republic of; lhi2015@mail.ustc.edu.cn

11:30am - 11:45am

Mechanical and Microscopic Analysis of a Structural Concrete Having High Contents of Recycled Aggregate
Zapata-Orduz, Luis E; Camacho, Silvia N ; Suarez, Edwar M ; Sierra, Oscar M
Universidad Industrial de santander, Colombia; luisezap@uis.edu.co

11:45am - 12:00am

Regulation of Coordination Number over Single Co Sites Triggers the Efficient Electroreduction of CO2
Wang, Xiaoqian; Wu, Yuen
University of Science and Technology of China, ustcw@outlook.com

12:00pm - 12:15pm

Ionic Kinetics through Polymer Semiconductor/Electrolyte Interface and Realization of Diverse Synaptic Plasticity
Zeng Fei, Hu Yuandong, Chiang Jiating, Dong Wenshuai, Liu Jialu
Tsinghua University, Beijing, China, zengfei@mail.tsinghua.edu.cn

12:15pm - 12:30pm

A novel PAN-GO-SiO2 hybrid membrane for separating oil in water emulsion
N. Naseeb, M. Abdul Azeem, Z. Khan, Tahar Laoui
King Fahd University, Saudi Arabia; tlaoui@kfupm.edu.sa
WSS-3: WUN Spintronic Symposium

Time: Wednesday, 29/Aug/2018: 8:30am - 12:00am · Location: Ballroom 1

Session Chair: Weisheng Zhao

8:30am-8:55am
TRMOKE study of magnetic thin films
Qingyuan Jin, East China Normal University, P.R. China, qyjin@phy.ecnu.edu.cn

8:55am-9:20am
Synchronized spin-photon coupling in a microwave cavity
Ke Xia, Beijing Normal University, P.R. China, kexia@bnu.edu.cn

9:20am-9:45am
Growth and Characterization of single-layer 1T'-WTe2
Shaochun Li, Nanjing University, P.R. China, scli@nju.edu.cn

9:45am-10:10am
2D spintronic materials and devices
Liang He, Nanjing University, P.R. China, heliang@nju.edu.cn

10:10am—10:30am coffee break

Session Chair: Shaochun Li

10:30am-10:55am
Nano-spintronic devices for temporal information processing
Ronghua Liu, Nanjing University, P.R. China, rhliu@nju.edu.cn

10:55am-11:20am
Pure spin current generation, detection, manipulation and transport
Yong Pu, Nanjing University of posts and telecommunications, P.R. China, yongpu@foxmail.com

11:20am-11:45am
Anomalous in-plane anisotropic negative magnetoresistance in the topological phase transition system
Xuefeng Wang, Nanjing University, P.R. China, xtwang@nju.edu.cn

11:45am-12:00am
Positive and negative magnetoresistances in Co/Cu/Ni spin valves
Wenbo Zhao1, Yuewei Yin1, Xiaoguang Li1,2
1University of Science and Technology of China, Hefei, China, People's Republic of; 2Collaborative Innovation Center of Advanced Microstructures, Nanjing, China, People's Republic of; wbzhao@mail.ustc.edu.cn
**Keynote: keynote session**

*Time:* Wednesday, 29/Aug/2018: 2:45pm - 6:00pm  ·  *Location:* Ballroom 1

**Session Chair:** Dae Joon Kang.

**2:45pm - 3:15pm**

**Exploration of Inorganic and Organic Electronic Materials in the Flatland**  
Jian-Bin Xu¹²³, Xinran Wang², Yi Shi²  
¹Chinese University of Hong Kong, Hong Kong S.A.R. (China); ²Nanjing University, Nanjing, China; ³Shenzhen Institutes of Advanced Technology, CAS, China; jbxu@ee.cuhk.edu.hk

**3:15pm – 3:45pm**  
**Nanostructured Electrocatalysts for Energy Conversion Processes**  
Shizhang Qiao  
University of Adelaide, Australia; s.qiao@adelaide.edu.au

**3:45pm - 4:15pm**  
**Non-Planar Mixed-Dimensional Heterostructures for Conventional and Unconventional Computing**  
Lauhon, Lincoln  
Northwestern University, United States of America; lauhon@northwestern.edu

**4:15pm - 4:30pm**  
Coffee break

**4:30pm - 5:00pm**  
**Advances in Biosensors - New Sensing and Imaging Platforms for in vivo Application.**  
Bradley, Mark  
University of Edinburgh, United Kingdom; Mark.Bradley@ed.ac.uk

**5:00pm - 5:30pm**  
**Triboelectric Nanogenerators for Powering Portable, Wearable and Body-Implantable Devices**  
Sang-Woo Kim  
Sungkyunkwan University (SKKU), Korea, Republic of (South Korea); kimsw1@skku.edu

**5:30pm - 6:00pm**  
**Tailoring the optical properties of low-dimensional materials for novel photonics applications**  
Fengqiu Wang  
Nanjing University, Nanjing, China; fwang@nju.edu.cn
AMCM-2: Advances in Multifunctional Composite materials

*Time*: Thursday, 30/Aug/2018: 8:30am - 11:00am  ·  *Location*: Ballroom 1

**Session Chair**: Kirsten Severing.

8:30am - 8:45am

*Multifunctional Hemostatic Microspheres Crosslinked by a Ubiquitous Compound in Plants for the Application of Rapid Wound Healing*

Changcan Shi
Wenzhou Institute of Biomaterials and Engineering, China, People's Republic of; shicc@wibe.ac.cn

8:45am - 9:00am

*Organomineral sorbents based on ferrocyanide of transition metals for extraction and concentration of Cs-137 from seawater.*

Eduard Tokar1,2, Andrey Egorin1,2, Larisa Zemskova1, Valentin Avramenko1,2, Artur Dran'kov1,2
1Far Eastern Federal University; 2Institute of Chemistry FEB RAS; d.edd@mail.ru

9:00am - 9:15am

*Thermal analyses on the effects of additions of two-dimensional graphitic-C3N4 on phase transitions in ferroelectric copolymers*

Sana Ullah, Sumair Imtiaz, Guang-Ping Zheng
The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); sana.ullah@connect.polyu.hk

9:15am - 9:30am

*Synergistically plasmon-coupling for WGM lasing and SERS sensing of graphene/metal/ZnO microcavities*

Chunxiang Xu, Qiuxiang Zhu, Feifei Qin, Yanjun Liu, Daotong You, Zengliang Shi
Southeast University, China, People's Republic of; xcxseu@seu.edu.cn

9:30am - 9:45am

*Monitoring System Based on Permanent-Magnet Self-Power Wireless Sensor Technology*

Yihe Zhang, Chul-Hee Lee
Inha University, Korea, Republic of (South Korea); zhangyihe.chn@outlook.com

9:45am - 10:00am

*Mesoporous silica nanoparticles as carriers for enhancing spirotetramat dose transfer in cucumber plant*

Pengyue Zhao, Lidong Cao, Qiliang Huang
Chinese Academy of Agricultural Science, China, People's Republic of; pengyue_8825@163.com

10:00am - 10:15am  coffee break

10:15am - 10:30am

*Carbonization of Capping Agent for Stability Improvement of Metal Nanowires Using Electron Beam Irradiation*

Beibei Luo, Bin Hu
Huazhong University of Science and Technology, China, People's Republic of; m201672631@hust.edu.cn

10:45am - 11:00am

*Modulating the optical and electronic properties of TMDs materials by mild plasma treatment*

Haivan Nan, Liu yulu, Xiao shaoqing, Ni zhenhua
Jiangnan University, China, People's Republic of; dongnainihaiyan@163.com

11:00am - 11:15am

*Phase, microstructure and millimeter wave dielectric properties of Co doped MgSiO3 ceramics*

Atta Ullah
Islamia College Peshawar, Pakistan; attaullah541@yahoo.com

11:15am - 11:30am

**DAST-Based Functional Materials**

Yu Gu, Xiangdong Xu*, Fu Wang, Xinrong Li, Xiaomeng Cheng, Yuxiang Lian, Huaxin Zhou, Yadong Jiang
University of Electronic Science and Technology of China (UESTC), China; xdxa@uestc.edu.cn
LDNM: Low dimensional, nano and 2D materials for optical devices, Flexible Electronics, Sensors & Composites

Time: Thursday, 30/Aug/2018: 8:30am - 11:00am · Location: Ballroom 2

Session Chair: Danielle S. Rhen

8:30am - 9:00am

Probing and Modulating Interface Interactions in 2-Dimensional Materials and Their Heterostructures

Kai Liu
Tsinghua University, China, People's Republic of; liuk@tsinghua.edu.cn

9:00am - 9:15am

Microstructural Characterization and Magnetic Properties of (La1-xPrx)0.67Ca0.33MnO3 Nanoparticles Synthesized by Sol - Gel Process

Weiren Xia, Heng Wu, Piaojie Xue, Xinhua Zhu
Nanjing University, China, People's Republic of; xhzhu@nju.edu.cn

9:15am - 9:30am

Universal scaling laws in the electronic transport of 2D-material-based Schottky heterostructure

Yee Sin Ang, Hui Ying Yang, L. K. Ang
Singapore University of Technology and Design, Singapore; yeesin_ang@sutd.edu.sg

9:30am - 9:45am

Pd-based bimetallic/multimetallic nanosheets

Cheng Xu, Wenya Lu, Si Cheng
Soochow University, China, People's Republic of; chengsi@suda.edu.cn

9:45am - 10:00am

Towards 2D material valleytronic-based reversible computing

Yee Sin Ang, L. K. Ang
SUTD-MIT International Design Center, Singapore University of Technology and Design, Singapore; yeesin_ang@sutd.edu.sg

10:00am - 10:15am

Resistive switching characteristics of polycrystalline Ba0.5Sr0.5TiO3 films

Jing He
Huazhong University of Science and Technology, China, People's Republic of; D201577534@hust.edu.cn

10:15am—10:30am coffee break

10:30 am - 10:45 am

Broadband anti-reflection in silicon substrate via Ag nanospheres on silicon nanopillar arrays

Xiaodan Huang, Chaogang Lou, Hao Zhang
Southeast University, China, People's Republic of; hxd@seu.edu.cn

10:45am - 11:00am

Alpha fetoprotein as marker in protective effect of silver nanoparticles against hepatotoxicity by CCL4

Sddiq Ghani Al-Muhanna1, Murtadha M.Jawad Kadhim2
1Al-Kafeel University College; 2AL-Furat AL-Awsat Technical University, Iraq; murtadham.alkhafaji@student.uokufa.edu.iq

11:00am - 11:15am

Large area graphene/PMN-PT field effect transistor with interdigitated electrode

Gwanmu Lee1,2, Dongseok Suh1,2
1Department of Energy Science, Sungkyunkwan University, Suwon 16419, Republic of Korea; 2IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Suwon 16419, Republic of Korea; gwanmulee@gmail.com
11:30am - 11:45am
Enhancement of Hybrid Perovskite on Stability and Photocatalysis with Aniline
YIDI WANG, BIN FEI
The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); 16903650r@connect.polyu.hk

11:45am - 12:00am
Atomic-layer soft plasma etching of graphene-like 2D materials
Shaoqing Xiao, Haiyan Nan, Xiumei Zhang, Xiaofeng Gu, Kostya Ostrikov
Jiangnan University, China, People's Republic of; Larring0078@hotmail.com

12:00pm - 12:15pm
Amorphous Magnetic Photonic Crystals Based on Fe3O4@SiO2 Nanospheres with Non-iridescent Structural Colors
Ang Zheng, Wei Wang, Jie Zhong, Lin Zhuang
University, Guangzhou, China, People's Republic of; stszhl@mail.sysu.edu.cn