

16<sup>th</sup> International Conference on

# EMERGING MATERIALS AND NANOTECHNOLOGY

March 22-23, 2018 | London, UK



UK: Conference Series Ilc LTD

47 Churchfield Road, London, W3 6AY

Toll Free: +0-800-014-8923

Hall @ Atlantis 2

conference**series.com** 09:30-09:55

# Opening Ceremony

## Keynote Forum

09:55-10:00 Introduction

**Title: Polymer-enhanced biomacromolecular systems**

10:00-10:30

Alan J. Russell, Carnegie Mellon University, USA

Networking and Refreshments Break 10:30-10:50 @ Breakout Area

10:50-11:20

**Title: Dielectrophoresis: Non-linear capacitor materials. Experiment and theory**

Pavel Lazarev, Capacitor Sciences Inc., USA

11:20-11:50

**Title: Carbon overlayer from hydrocarbon precursors: Electron-beam-induced deposition/removal**

Ludek Frank, Czech Academy of Sciences, Czech Republic

Sessions: Surface Science and Engineering | Energy Materials | Materials and Devices

Session Chair: Alberto Tagliaferro, Politecnico Torino, Italy

Session Co-Chair: Yukishige Kondo, Tokyo University of Science, Japan

Session Introduction

11:50-12:15

**Title: Active demulsification of stable emulsions using light**

Yukishige Kondo, Tokyo University of Science, Japan

12:15-12:40

**Title: Morphogenic mussel inspired self-construction of versatile enzymatic biosensors by electrochemistry**

Janwa El-Maiss, Université de Strasbourg, France

Group photo @ Atlantis 2

Lunch Break 12:40-13:25 @ RBG

13:25-13:50

**Title: Photoelectrochemical characterization of lead-based hybrid perovskite semiconductors**

Sam HY HSU, City University of Hong Kong, China

13:50-14:15

**Title: A redox active self-assembled monolayer both a sensor and actuator**

Cesar Pascual Garcia, Luxembourg Institute of Science and Technology (LIST), Luxembourg

Sessions: Advanced Materials | Next-Generation Materials | Emerging Materials for Energy Storage

Session Chair: Hemalatha Parangusan, Qatar University, Qatar

Session Introduction

14:15-14:40

**Title: Enhanced dielectric properties and energy storage performance of PVDF nanocomposites containing ferromagnetic metals doped ZnO nanoflowers**

Hemalatha Parangusan, Qatar University, Qatar

14:40-15:05

**Title: Discrete element simulation on the ordered array of carbon fiber with ultrasonic vibration assisting in SLS**

Yuanqiang Tan, Huaqiao University, China

15:05-15:30

**Title: Application of cyclohexeno-1, 2, 3-selenadiazole via extrusion of selenium in synthesis of copper indium diselenide**

Pawan K Khanna, Defence Institute of Advanced Technology, India

15:30-15:45

**YRF: Molecule doping strategy and its application for Mn doped CsPbCl<sub>x</sub>Br<sub>3-x</sub> nanocrystals**

Guangguang Huang, Southeast University, P. R. China

Networking and Refreshments Break 15:45-16:00 @ Breakout Area

Panel Discussion

**Day 2 March 23, 2018**

**Hall @ Atlantis 2**

**Keynote Forum**

- 09:00-09:30** Title: **Nonlinear polarizability in dielectrophores**  
Pavel Lazarev, Capacitor Sciences Inc., USA
- 09:30-10:00** Title: **Fluid/solid interface processes associated with emerging materials**  
Dimitris Drikakis, University of Strathclyde, UK
- 10:00-10:30** Title: **Biochar as a green filler improving polymer composite properties**  
Alberto Tagliaferro, Politecnico Torino, Italy

**Networking and Refreshments Break 10:30-10:45 @ Breakout Area**

**Sessions: Nanotechnology in Materials Science | Biomaterials and Tissue Engineering | Materials Chemistry and Physics**

**Session Chair: Frederic Dumur, Aix Marseille University, France**

**Session Introduction**

- 10:45-11:10** Title: **On-surface synthesis of aligned functional nanoribbons monitored by scanning tunnelling microscopy and vibrational spectroscopy**  
Frederic Dumur, Aix Marseille University, France
- 11:10-11:35** Title: **The Influence of tuning the particle size of titania-supported palladium nanoparticles on their catalytic activity for liquid phase transfer dehydrogenation of 1-phenylethanol**  
Reem AlBilali, Imam Abdulrahman Bin Faisal University, Saudi Arabia
- 11:35-12:00** Title: **A review on the characterization of the enthesis (osteotendon junction)- from classic histology to approaches in materials science and engineering**  
Mary E. Craig, Oakland University, USA
- 12:00-12:25** Title: **The effect of SiO<sub>2</sub> particle size on hemostatic properties of a novel hybrid as a styptic for severe bleeding**  
Maryam Chenani, Islamic Azad University, Iran
- 12:25-12:50** Title: **Antimicrobial activity of electrodeposited copper coating on double zincated aluminium plate**  
Rajendra Udupa, National Institute of Technology Karnataka, India

**Lunch Break 12:50-13:35 @ RBG**

- 13:35-14:00** Title: **Investigation of structural and electrical properties of manganese doped ZnO varistors prepared from nanopowders**  
Kamel Guergouri, University Larbi Ben M'Hidi of Oum El Bouaghi, Algeria
- 14:00-14:25** Title: **Carbon nanocoils: Synthesis, properties and applications**  
Lujun Pan, Dalian University of Technology, China

**Young Research Forum**

- 14:25-14:40** Title: **(PANI-PTSA) & CoFe<sub>2</sub>O<sub>4</sub>/Co<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> - Nanocomposite absorption materials prepared for EMI shielding in microwave X-band**  
Jameel M. A. Sulaiman, University of Mosul, Iraq
- 14:40-14:55** Title: **Size-tunable CsPbBr<sub>3</sub> perovskite ring arrange for stable and ultralow threshold laser**  
Jingkun Xu, Southeast University, China
- 14:55-15:10** Title: **Organomineral sorbents based on chitosanferrocyanide for extraction and concentration of Cs-137 from seawater**  
Tokar Eduard, Far Eastern Federal University, Russia

**Sessions: Materials Applications**

**Session Chair: Zheng Cui, Suzhou Institute of Nanotech and Nanobionics, China**

**Session Introduction**

15:10-15:35 **Title: Potential use of quarry waste as construction and building material: A review**  
Ajay Singh Jethoo, Malaviya National Institute of Technology, India

**Networking and Refreshments Break 15:35-15:50 @ Breakout Area**

15:50-16:15 **Title: Applications of inorganic nanomaterials for printed electronics**  
Zheng Cui, Suzhou Institute of Nanotech and Nanobionics, China

16:15-16:40 **Title: Processing & characterization of eco-friendly interlock construction blocks for earthquake regions**

Safeer Ahmad Arbab, Islamia College Peshawar, Pakistan

16:40-17:05 **Title: Influence of rare earths on the electromechanical coupling factor and operating temperature of strontium bismuth titanate**

P.Sarah, Vardhaman College of Engineering, India

**Poster Presentations @ Meeting Room 17:05-17:30**

EMC-01 **Title: Stress modification in praseodymium fluoride thin films through admixture with barium fluoride**

Bin Li, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China

EMC-02 **Title: Preparation of graphene oxide reinforced sol-gel polishing film with enhanced mechanical strength**

Jing Lu, Huaqiao University, China

EMC-03 **Title: Review of ultrasonic additive manufactured metal composite materials**

Changcai Cui, Huaqiao University, China

EMC-04 **Title: Nanodiamond-supported crystalline TiO<sub>2</sub> nanoparticles synthesized via one-step isothermal hydrolyzing method and its nitrite electrooxidation**

Xipeng Xu, Huaqiao University, China

EMC-05 **Title: Tensile property and deformation mechanism of novel  $\gamma'$ -Co<sub>3</sub>(Al, W) strengthened Co-Al-W-Mo-Ta-B-Ce alloys**

Jiangbo Sha, Beihang University, China

EMC-06 **Title: Microstructure and properties of aluminium elements selected for the medical cabin construction**

Agata Sotniczuk, Warsaw University of Technology, Poland

EMC-07 **Title: The effect of the microstructure and surface topography on acoustic properties of the composites for the lightweight medical cabins**

Donata Kuczynska, Warsaw University of Technology, Poland

EMC-08 **Title: Fabrication of high thermal conductive diamond/copper composites and their joining with substrates**

Cheng-Ying Lee, National Tsing Hua University, Taiwan

EMC-09 **Title: A wearable strain sensor based on carbon nanocoils**

Chenghao Deng, Dalian University of Technology, China

**Awards & Closing Ceremony**

**Bookmark your dates**

17<sup>th</sup> International Conference on

**EMERGING MATERIALS AND  
NANOTECHNOLOGY**

March 07-08, 2019 Berlin, Germany

E-mail: [emergingmaterialscongress@annualconferences.org](mailto:emergingmaterialscongress@annualconferences.org); [emergingmaterialscongress@materialsconferences.org](mailto:emergingmaterialscongress@materialsconferences.org)

Website: [emergingmaterials.materialsconferences.com](http://emergingmaterials.materialsconferences.com)