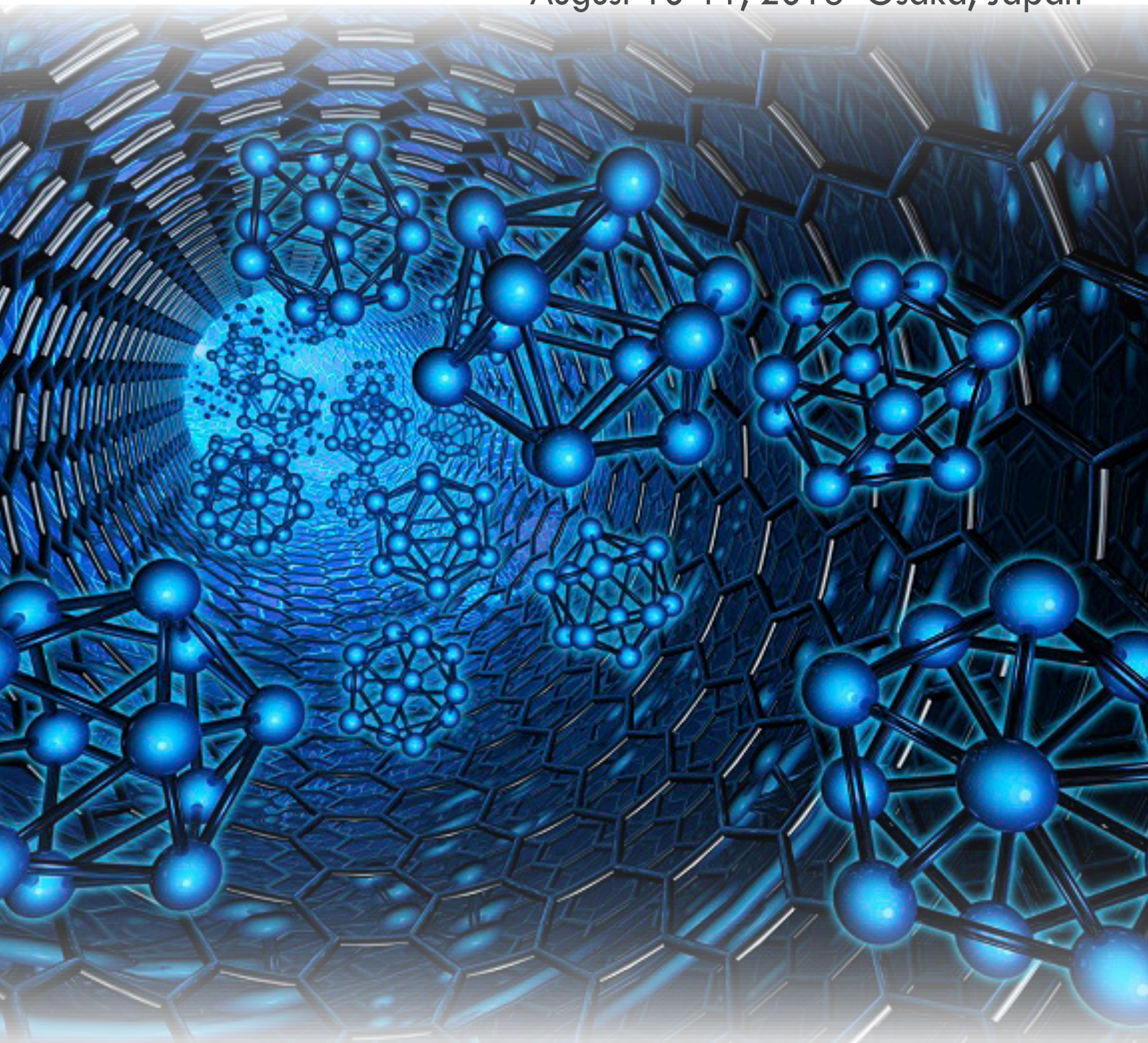


2<sup>nd</sup> World Congress on

# Nano Science and Nano Technology

August 10-11, 2018 Osaka, Japan



**Hosting Organization: Conference Series LLC LTD**

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Mai

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09:15-09:25

# Opening Ceremony

## Keynote Forum

09:25-09:30 Introduction

**Title: Dielectric properties of the composites containing superparamagnetism particles**

09:30-10:15

**Masaru Matsuo**, Dalian University of Technology, China

10:15-11:00

**Title: How to enhance the electrochemical performance of supercapacitors and photocatalysts?**

**Jae-Jin Shim**, Yeungnam University, Republic of Korea

## Group Photo

Networking & Refreshments Break 11:00-11:15 @ 2F Foyer

11:15-12:00

**Title: Photo-design of metal/polymer nanomaterial and nanostructured materials**

**Lavinia Balan**, CNRS, Institute of Materials Science of Mulhouse, France

12:00-12:45

**Title: Applications of four-dimensional electron microscopy in studies of dynamics and structures of nanomaterials**

**Jau Tang**, Wuhan University, China

Lunch Break: 12:45-13:45 @ 2F Foyer

**Session: Advance Nanomaterials and Nanoparticles | Materials science and Nanotechnology | Nanotechnology in Energy and Environment | Molecular Nanotechnology | Nanodevices and Nanosensors | Nano Electronics and Microsystems | Nano Physics**

**Session Chair: Masaru Matsuo**, Dalian University of Technology, China

**Session Co-Chair: Lavinia Balan**, Institute of Materials Science of Mulhouse-CNRS, France

Session Introduction

13:45-14:15

**Title: Dynamic magnetization of single domain nanomagnet**

**Hao Yu**, Xi'an Jiaotong-Liverpool University, China

14:15-14:45

**Title: Engineering carbon-based nanostructures for DNA sensor**

**Jin Zhang**, Western University, Canada

14:45-15:15

**Title: Self-assembly of porphyrin and heteroacene organic nanostructures**

**Jonathan P Hill**, National Institute for Materials Science, Japan

15:15-15:45

**Title: Innovative fast supercritical fluids synthesis of thermoelectric CoSb<sub>3</sub> nanoparticles**

**Angeline Poulon Quintin**, University of Bordeaux, France

Networking & Refreshments Break @ 15:45-16:00 @ 2F Foyer

16:00-16:30

**Title: Magneto-plasmonics on perpendicular magnetic nanostructures consisting of CoPt nano-layer and noble-metal nanoparticles**

**Haruki Yamane**, Akita Industrial Technology Center, Japan

16:30-17:00

**Title: Skin-Inspired Electronic Skins for Wearable Healthcare Devices**

**Hyunhyub Ko**, Ulsan National Institute of Science and Technology, Republic of Korea

17:00-17:30

**Title: Upconversion nanoparticles and organic dyes for the conversion of NIR radiations to visible light for solar cell applications**

**Abhijit P Jadhav**, Ewha Womans University, South Korea

## Video Presentation

17:30-18:15

**Title: Impacts of nanoscale events on the neural functions of lives**

**Shengyong Xu**, Peking University, China

## Panel Discussions

Day 2 August 11, 2018

### Mai

#### Keynote Forum

09:30-10:15 **Title: Building and engineering highly organized single-walled carbon nanotube network architectures for various sensor applications**

**Yung Joon Jung**, Northeastern University, USA

10:15-11:00 **Title: Revisiting SWIR photo-detectors: Improvements on both light-matter interaction and electron transport**  
**Jean-Luc Pelouard**, University of Paris-Saclay, France

Networking & Refreshments Break 11:00-11:15 @ 2F Foyer

11:15-12:00 **Title: Green fabrication of micro/nano materials by migration phenomena**  
**Yasuhiro KIMURA**, Tohoku University, Japan

#### Panel Discussions

**Session: Materials science and Nanotechnology | Advance Nanomaterials and Nanoparticles | Applications of Nanotechnology | Nanotechnology in Waste water treatment | Nanotechnology in Agriculture and Food Industry | Regenerative Nanomedicine and Drug Delivery**

**Session Chair: Jae-Jin Shim**, Yeungnam University, Republic of Korea

**Session Co-Chair: Jean-Luc Pelouard**, University of Paris-Saclay, France

Session Introduction

12:00-12:30 **Title: Flexible sensors and actuators by metal nanowire percolation networks**  
**Seung Hwan Ko**, Seoul National University, Republic of Korea

Lunch Break 12:30-13:30 @ 2F Foyer

#### YRF Session

13:30-14:00 **Title: Enhanced catalytic activity of MoS<sub>2</sub> nanoclusters for the hydrogen evolution reaction by Ni-doping and sulfur enrichment**

**Yubiao Niu**, Swansea University Bay Campus, UK

14:00-14:30 **Title: ZnMoS<sub>4</sub> nanorods grown on Ni foam for high performance hybrid-supercapacitors**  
**Awais Ali**, Yeungnam University, Republic of Korea

14:30-15:00 **Title: Enhancement of electrochemical performance of Co<sub>3</sub>O<sub>4</sub> at Ni foam electrode using redox-additive electrolyte**

**Ganesh Dhakal**, Yeungnam University, Republic of Korea

15:00-15:30 **Title: Preliminary discussion and verification for far infrared radiation energy**  
**Chun-Chi Chung**, National Taiwan Normal University, Taiwan

15:30-16:00 **Title: Novel magnetically chitosan based N-heterocyclic carbene as recyclable nano-catalyst and highly efficient for cross-coupling reaction**

**Pourya Zarshenas**, Shahid Beheshti University, Iran

16:00-16:30 **Title: Strain engineered phonon and band gap modification in 2D materials**  
**Yanlong Wang**, Dalian Institute of Chemical Physics, China

#### Poster Presentation

16:30-17:00 **Title: Analysis of MRSA combining aptamer-modified magnetic nanoparticles and mass spectrometry**  
**Yu-Tsen Liu**, National Dong Hwa University, Taiwan

Networking & Refreshment Break 17:00-17:15 @ 2F Foyer

Panel Discussion

Awards & Closing Ceremony