Scientific Program

2nd World Congress on
Nano Science and Nano Technology
August 10-11, 2018 Osaka, Japan
Keynote Forum

09:25-09:30  Introduction

09:30-10:15  Title: Dielectric properties of the composites containing superparamagnetism particles
             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

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

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 CoSb₃ 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

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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$_2$ 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$_4$ 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$_3$O$_4$ 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