

20th World Summit on

NANOTECHNOLOGY AND EXPO

October 05-06, 2018 | Los Angeles, USA

Day 1 October 05, 2018

Conference Hall: Burgundy

08:00-08:30 Registrations

08:30-08:45 Opening Ceremony

Keynote Forum

Introduction

08:45-09:45 Title: Enhanced T1 MRI contrast and fluorescence stability within a plasmonic core-shell nanoparticle

Oara Neumann, Rice University, USA

09:45-10:45 Title: Methods of controlling colloidal quantum dots for future optoelectronics

Kohki Mukai, Yokohama National University, Japan

Panel Discussion

Networking & Refreshment Break 10:45- 11:00 @ Foyer

11:00-12:00 Title: High mobility bottom-contact top-gate organic field effect transistors: Device fabrication and simulation

Davoud Dastan, Georgia Institute of Technology, USA

Sessions: Nanomaterials | Nanomedicine and Medical Nanotechnology | Nano-electronics and Photonics | Energy Systems | Materials Science and Engineering | Nanoparticles Surgery | Applications of Nanotechnology | Nano Chemistry

Session Chair: Oara Neumann, Rice University, USA

Session Co-chair: Kohki Mukai, Yokohama National University, Japan

Session Introduction

12:00-12:40 Title: Multifunctional materials for textronics: Polymeric composites as wearable Joule heaters and supercapacitors

Helinando P de Oliveira, Federal University of Sao Francisco Valley, Brazil

Panel Discussion

Lunch Break 12:40-13:40 @ Foyer

13:40-14:20 Title: Modification of cotton fibers with magnetite and magnetic core-shell mesoporous silica nanoparticles

David Patino Ruiz, Universidad de Cartagena, Colombia

14:20-15:10 Title: Effects of manganese doped CdS and ZnS QDs in bacterial growth

Atif Masood, Philipps Universität Marburg, Germany

15:10-15:50 Title: Mechanical behavior of GaAs nanowires

Yanbo Wang, The University of Sydney, Australia

Panel Discussion

Networking and Refreshment Break 15:50-16:05 @ Foyer

16:05-16:45 Title: Crystal structure changes of CoFe₂O₄ nanoparticles studied using high-pressure synchrotron x-ray diffraction

Surya Suvvari, Green Valley High School, USA

Video Presentations

16:45-17:15 Title: Three mechanisms responsible for pore formation in solids

Peng Sheng Wei, National Sun Yat-Sen University, Taiwan

17:15-17:45 Title: Synthesis of bovine serum albumin modified chlorogenic acid nanoparticles and its selective cytotoxic, apoptotic, growth inhibitory and tumor regressive efficacy in cancer cells

Sujata Maiti Choudhury, Vidyasagar University, India

17:45-18:15 Title: Bi-polar organic semiconductors for thermoelectric power generation

Jothi Narayanan, Madurai Kamaraj University, India

Panel Discussion

Day 2 October 06, 2018

Conference Hall: Burgundy

Keynote Forum

09:45-10:45 Title: Investigations on the magnetic properties of RF-based carbon aerogels loaded with nanosized magnetite

Werner Lottermoser, Salzburg University, Austria

Panel Discussion

Networking & Refreshment Break 10:45-11:00 @ Foyer

11:00-12:00 Title: Thin films to single crystals: Organometal halide perovskite materials for advanced optoelectronics

Padmaja Guggilla, University of Alabama, USA

12:00-13:00 Title: Noncontact structural damage sensing using nanocomposites and tomography

Kenneth J Loh, University of California-San Diego, USA

Panel Discussion

Lunch Break 13:00-14:00 @ Foyer

Sessions: Nanophysics | Nanotechnology in Automation | Health, Safety and Environment | Nanodevices and Nanosensors | Biomedical Engineering | Bio Mechanics | Quantum Technology

Session Chair: Werner Lottermoser, Salzburg University, Austria

Session Co-chair: Kenneth J Loh, University of California-San Diego, USA

Session Introduction

14:00-14:40 Title: Gap mode 3D nano structure supporting strong coupling regime for improving optoelectronic device performance

Sujan Kasani, West Virginia University, USA

14:40-15:20 Title: Photochemically deposited nanoparticles for plasmonic-based graphene sensors

Savan Suri, West Virginia University, USA

15:20-16:00 Title: CNT reinforced silver nanocomposite: Effect of sintering on their electrical conductivity

Sonia Nain, University of Science and Technology, India

Panel Discussion

Networking and Refreshment Break 16:00-16:20 @ Foyer

16:20-17:00 Title: Polymeric biodegradable PEGylated nanoparticles for controlled drug delivery: An effective strategy for neurodegenerative diseases

Elena Sanchez, Instituto de Salud Carlos III, Spain

Poster Presentations @ 17:00-18:00

Poster Judge: Werner Lottermoser, Salzburg University, Austria

Poster Judge: Sonia Nain, University of Science and Technology, India

Nano 01 Title: Synthesis of iron oxide nanoparticles by green chemistry using *Cymbopogon* extract for antibacterial and eco-toxicity evaluations

David Patino Ruiz, Universidad de Cartagena, Colombia

Nano 02 Title: Determination of natural radioactivity concentration in consumed nuts and seeds and their implications in the human body

Amal Alghamdi, King AbdulAziz University, Saudi Arabia

Nano 03 Title: Incorporation of layered double hydroxide nanomaterials in thin film nanocomposite nanofiltration membrane for desalination application

Norhaniza Yusof, Universiti Teknologi Malaysia, Malaysia

Nano 04 Title: Updated trends on antimicrobial action of silver nanoparticles

Hind AA Al Zahrani, University of Jeddah, Saudi Arabia

Awards and Closing Ceremony