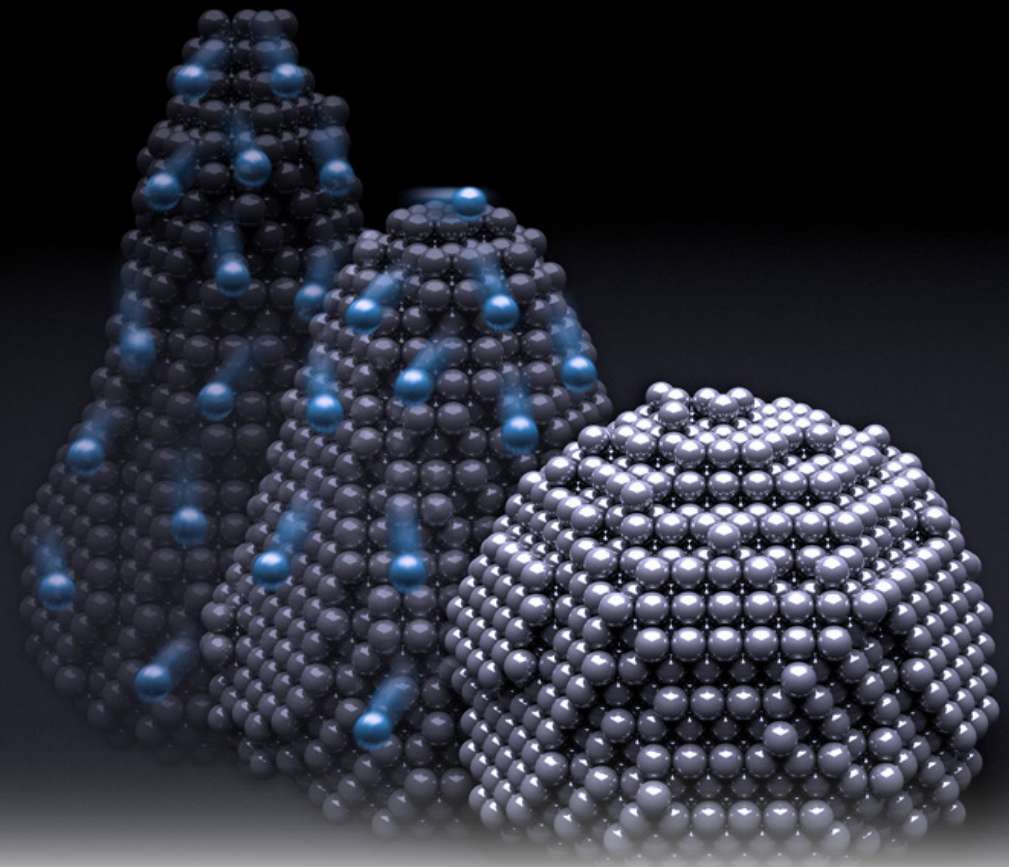


Scientific Program



28th International conference and Expo on
**Nanoscience and
Nanotechnology**

&

3rd World congress and Expo on
**Graphene &
2D Materials**

November 26-27, 2018 | Barcelona, Spain

UK: Conference Series LLC Ltd
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DAY-1

November 26, 2018

Meeting Hall: **Silverstone**

08:30-09:00 Registrations

Opening Ceremony 09:00-09:20

KEYNOTE FORUM

09:20-09:30 Introduction

09:30-10:15 **Title: Micro/Nanoscale Research: A Control Systems Viewpoint**
Srinivasa M. Salapaka, University of Illinois at Urbana-Champaign, USA

10:15-11:00 **Title: Quasi insitu advanced characterizations for materials upfront studies and process development in microelectronic - The IMPACT 300mm project and platform: merging academic research and industrial applications**
Bernard Pelissier, CNRS, LTM, MINATEC Campus, Grenoble, France

Group Photo & Networking & Refreshments 11:00-11:15 @ Bar Terraza

11:15-12:00 **Title: Next generation metallic implant materials: Contribution of nanoscience and nanotechnology**
Takao Hanawa, Tokyo Medical and Dental University, Japan

Sessions: Nanomedicine & Nanobiotechnology, Nanoparticles | Nanomaterials- production, synthesis and processing Nanoengineering | Micro/ Nano-fabrication, Nano patterning, Nano Lithography & Nano Imprinting | Graphene and Applications | Computation, Simulation & Modeling of Nanostructures, Nano systems & devices

Chair: Joseph C. Glorioso, University of Pittsburgh, School of Medicine, USA

Chair: Srinivasa M. Salapaka, University of Illinois at Urbana-Champaign, USA

Co-Chair: Takao Hanawa, Tokyo Medical and Dental University, Japan

PLENARY TALK

12:00-12:30 **Title: New method for intercalation and ion exchange utilizing solid state electrochemical reaction.**
Masaya Fujioka, RIES Hokkaido University, JAPAN

12:30-13:00 **Title: Chinese Taiji and Nanascience & Quantum Mechanics**
ALEX KUNG-HSIUNG CHANG, National Pingtung University of Sci. & Tech, Taiwan

Lunch Break 13:00-13:45 @ Bar Terraza

13:45-14:15 **Title: Synthesis and screen-printing of SnO₂ nanoparticles on flexible PET substrate for cost-efficient ethanol sensors**
Marko Radovic, Biosense Institute, University of Novi Sad, Serbia

14:15-14:45 **Title: Biomedical applications of magnetically controlled magnetoplasmonic nanodomains**
Borja Sepulveda, Catalan Institute of Nanoscience and Nanotechnology (ICN2) of Barcelona, Spain

14:45-15:15 **Title: Iron oxide and carbon-based nanomaterials for biomedical application**
Katerina Polakova, RCPTM, Palacky University, Czech Republic

15:15-15:45 **Title: Mechanical, Electronic, Magnetic and Thermal Transport Properties in Two Dimensional materials**
Yang HAN, Harbin Engineering University, China

15:45-16:15 **Title: Quantization of plasmon-polaritons with localized nanostructures**
Hans-Rudolf Jauslin, Université Bourgogne Franche-Comté, France

Networking & Refreshments 16:15-16:30 @ Bar Terraza

16:30-17:00 **Title: Construction of Heterojunction of Electronic Structure-Modified Graphitic Carbon Nitride-Decorated Ceria Quantum Dots for Interfacial Applications**
G.R. Dillip, Yeungnam University, South Korea

17:00-17:30 **Title: Photocatalytic activity of the N-rich graphitic carbon nitride**
T. V. M. Sreekanth, Yeungnam University, South Korea

Panel Discussion

DAY-2

November 27, 2018

Meeting Hall: **Silverstone**

KEYNOTE FORUM

09:20-09:30 Introduction

09:30-10:15 **Title: Review of Nanofiber Fibrillation of LCP/PET Blend by Spinning Factors and Droplet Distribution by Repetitive**
Han-Yong Jeon, Inha University, South Korea

10:15-11:00 **Title: Composite glasses and perovskites for advanced photonic applications**
Ioannis Konidakis, Heraklion-Crete, Greece

Networking & Refreshments 11:00-11:15 @ Bar Terraza

11:15-12:00 **Title: Exploring Novel Quantum States and Quantum Degrees of Freedom in Two-Dimensional van der Waals Materials**
Nai-Chang Yeh, California Institute of Technology, USA

12:00-12:45

Title: Multicomponent Ti-Ta/Nb-Ni based surface alloys with an amorphous-nanocomposite structure on TiNi substrates: thermodynamic modeling, thin-film electron-beam synthesis, atomic structure, physical and mechanical properties

Ludmila Meisner, Institute of Strength Physics and Materials Science SB RAS, Tomsk, Russia

PLENARY FORUM

12:45-13:25

Title: Nanomaterial Reinforced Polymers and Composites: From Design and Manufacturing to High-end Applications

Kyriaki Kalaitzidou, Stanford University School of Medicine, USA

Lunch Break 13:25-14:10 @ Bar Terraza

14:10-14:50

Title: Fluorographene chemistry: broadening the family and scope of graphene derivatives

Aristides Bakandritsos, Palacky University in Olomouc, Czech Republic

14:50-15:30

Title: Multiphasic nanostructured materials based on block copolymers

Agnieszka Tercjak, University of the Basque Country, Spain

Sessions: Bio-Nanomaterials and biomedical devices, applications | Nanotechnology & Energy | Nanoelectronics and nanometrology | Nano photonics, Nano Imaging, Spectroscopy & Plasmonic devices | Nanotechnology: Environmental effects and Industrial safety | Nano Chemistry | Nanophysics | Future prospects of Nanotechnologies and commercial viability | Molecular Nanotechnology | Other Related research

Chair: Kyriaki Kalaitzidou, Stanford University School of Medicine, USA

Co-Chair: Han-Yong Jeon, Inha University, Incheon, Korea

15:30-16:00

Title: Sol-Gel based surface patterning

David RIASSETTO, Grenoble-INP/LMGP, FRANCE

16:00-16:30

Title: Phytosynthesis of Ag, Au and Ag-Au bimetallic nanoparticles using golden rod (*Solidago canadensis*) plant and their cytotoxicity

Elias Emeka Elemike, North West University, South Africa

16:30-17:00

Title: Green chemical route: Enhanced Photocatalytic degradation of malachite green under UV irradiation using Ag/g-C₃N₄ composite

NAGAJYOTHI P.C, Yeungnam University, South Korea

17:00-17:30

Title: Formulation parameters determining the characteristics of PLGA based nanoparticles loaded with antibacterial agent for ocular application

Güsel Yurtdas Kirimlioglu, Anadolu University, Turkey

POSTER PRESENTATIONS 17:30-18:30 @ FOYER

Poster Judge: Srinivasa M. Salapaka, University of Illinois at Urbana-Champaign, USA

NSG-01

Title: Influence of milling time on magnetic properties of Fe-Si nanomaterials alloy synthesized by planetary ball mill method

Ji Eun Lee, Changwon National University, South Korea

NSG-02

Title: Pr modified structural, magnetic and magnetocaloric properties of Nd_{1.4-x}Pr_xSr_{1.6}Mn₂O₇

LEE Hyung Uk, Changwon National University, South Korea

- NSG-03** **Title: Development of Novel Fluorescence Nanoprobes for Early Cancer Diagnosis**
Intisar Albandar, University of Strathclyde, United Kingdom
- NSG-04** **Title: Effect of coating time on the pores of the coating layer by immersing the coated specimen in solution containing Ce-nanopowder**
Min soo Kim, Changwon National University, South Korea
- NSG-05** **Title: Type conversion of carbon nanotube thin-film transistors using PVA/SU-8 polymer layer**
Geon Woong Lim, Incheon national University, South Korea
- NSG-06** **Title: Development of Eudragit RSP0 nanoparticle and preliminary in-vitro release studies of suppositories with lopinavir loaded nanoparticles**
Babatunde Ojo, North-West University, South Africa.
- NSG-07** **Title: ENG-LPHNp - Engineering of lipid-polymer nanoparticles loaded with cardiovascular drugs for biomedical applications**
Ramona-Daniela PAVALOIU, Politehnica of Bucharest, Romania
- NSG-08** **Title: Effect of gold nanoparticles on biofilm formation and destruction in Salmonella spp., Escherichia coli, Staphylococcus aureus and Listeria monocytogenes**
Sabina Purkrtová, University of Chemistry and Technology Prague, Czech Republic
- NSG-09** **Title: Mechanical durability enhanced self-cleaning composite material with superhydrophobic and photocatalytic ability**
Xiaotian Zhang, University of Zurich, Switzerland

Networking & Refreshments 18:30-18:45 @ Bar Terraza

POSTER PRESENTATIONS 18:45–19:45 @ FOYER

- NSG-10** **Title: Light controlled dynamics of charge carriers**
István Magashegyi, University of Szeged, Hungary
- NSG-11** **Title: Novel TiO₂/g-C₃N₄ photocatalysts for photocatalytic reduction of CO₂ and for photocatalytic decomposition of N₂O**
Petr Prais, University of Pardubice, Czech Republic
- NSG-12** **Title: Tuning of the graphitic carbon nitride synthesis using the design of experiment method**
Vlastimil Matejka, VŠB-Technical University of Ostrava
- NSG-13** **Title: Using a Combined Atomic Force and Confocal Microscope for Nanoscale Magnetic Sensing with Nanodiamonds**
Richard Escalante, Universidad Mayor, Chile
- NSG-14** **Title: Polyoxometalate decorated Pt-Nanoparticles and their Hydrogen Spillover Studies**
Aswin Kottapurath Vijay, Ariel University, Israel.
- NSG-15** **Title: Synthesizing Silica Supported Silver Nanoparticles at Different pHs: Tools for Catalytic Reactions Investigation**
Gifty Sara Rolly, Ariel University, Israel.
- NSG-16** **Title: The role of alcohol sacrificial agents on M/TiO₂ photocatalysts towards H₂ production reaction: A mechanistic study**
Sathiyam Krishnamoorthy, Ariel University, Ariel, Israel.

NSG-17

Title: Microfluidic Trapping of Single Bacterial Cells and Their Progeny to Study the Emergence of Phenotypic Heterogeneity and Bacterial Aging

Ágnes Ábrahám, Biophysics Institute of the Biological Research Centre, Hungary

NSG-18

Title: Ordered polyaniline nanotubes modified by carbon nano-onions - a conductive and capacitive nanocomposite as a biocompatible support for horseradish peroxidase in hydrogen peroxide detection

Piotr Olejnik, University of Bialystok, Poland

NSG-19

Title: Bio-prospecting of natural resources in Saudi Arabia for new potential bioactivity

Dina Hajjar, University of Jeddah, Saudi Arabia

NSG-20

Title: Use of nanoengineered surfaces for intracellular drug delivery via simultaneous engagement of inhibitory and stimulating receptor on mast cells and basophils

Waalla Alelwani, University of Nottingham, UK

PANEL DISCUSSION

Awards & Closing Ceremony

Bookmark your Dates

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