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1441st Conference

Scientific Program

22nd International Conference and Expo on

NANOSCIENCE AND MOLECULAR NANOTECHNOLOGY

November 06-08, 2017 | Frankfurt, Germany

Nanoscience 2017

Meeting Room @ Schwarzwald

conference**series**.com 09:15-09:30

Opening Ceremony

Keynote Forum

Introduction

09:30-10:10 **Title: Small is Big: Bio-inspired and microfluidics-enabled structures for manipulating liquids**

L Q "Rick" Wang, The University of Hong Kong, Hongkong

10:10-10:50 **Title: Nanotechnology in liver cancer**

Manfred George Krukemeyer, Paracelsus-Hospitals, Germany

Group Photo @ 10:50-10:55

Networking and Refreshments Break 10:55-11:10 @ Foyer

11:10-11:50 **Title: Achieving dual phobic surfaces using nanostructured composite coatings**

Sushanta K Mitra, Waterloo Institute for Nanotechnology, Canada

11:50-12:30 **Title: Reactive force field simulation for design of energy-related materials**

Sang Soo Han, Korea Institute of Science and Technology, South Korea

Sessions: Bio-Nanomaterials and Biomedical Devices, Applications | Nanomaterials- Production, Synthesis and Processing | Nanoelectronics and Nanometrology | Nanotechnology & Energy | Computation, Simulation & Modeling of Nanostructures, Nano Systems & Devices | Nanomedicine & Nanobiotechnology, Nanoparticles

Session Chair: Liqiu "Rick" Wang, The University of Hong Kong, Hongkong

Session Introduction

12:30-13:00 **Title: Biomimetic ion conducting nanopores in polymeric foils as bio-molecular chemical sensors: The inapo project**

Wolfgang Ensinger, Technische Universitaet Darmstadt, Germany

13:00-13:30 **Title: Hybrid nanoparticles as theranostic tool: photo-thermal treatment and MRI imaging**

Nina Kostevšek, Jozef Stefan Institute, Slovenia

Lunch Break 13:30-14:10 @ Restaurant Gaumenfreund

14:10-14:40 **Title: Charge transport through supramolecular junctions via quadruple hydrogen bonds**

WANG Lin, China University of Geosciences, China

14:40-15:10 **Title: Beyond nanoparticles: Active interfaces for safe-by-design nanotechnology**

Jose F Fernandez, Instituto de Ceramica y Vidrio, CSIC, Spain

15:10-15:40 **Title: Thermoelectric efficiency of molecular junctions**

Carmine Antonio Perroni, University Federico II, Italy

15:40-16:10 **Title: The role of tannic acid and sodium citrate in the synthesis of silver nanoparticles for biomedical applications**

Grzegorz Celichowski, University of Lodz, Poland

Panel Discussion

Networking and Refreshments Break 16:10-16:30 @ Foyer

Young Researchers Forum

Young Researchers Forum Judge: Liqiu "Rick" Wang, The University of Hong Kong, Hongkong

16:30-16:50 **Title: Functionalization of mesoporous zirconia nanoparticles with bis-phosphonic acids for successful tailoring of the surface properties: In depth investigation of the process**

Khohinur Hossain, Università Ca Foscari Venezia, Italy

- 16:50-17:10** **Title: Thin shell hollow mesoporous silica nanoparticles as adjuvants for improvement of anti-cancer immunity *in vivo***
Yajie Zhou, Huazhong University of Science and Technology (HUST), China
- 17:10-17:30** **Title: Synthesis of thin shell hollow mesoporous silica nanoparticles through PEI-Etching strategy for vaccine adjuvants**
Qianqian Liu, Huazhong University of Science and Technology (HUST), China
- 17:30-17:50** **Title: Luminescent organic nanoparticles doped with europium β -Diketonate complexes**
Olga Loginova, Moscow Region State University, Russia

Panel Discussion

Day 2 November 07, 2017

Meeting Room @ Schwarzwald

Keynote Forum

- 09:30-10:10** **Introduction**
Title: Development of microfluidic and low energy emulsification methods for the production of monodisperse morphologically-Complex nanocarriers
Christophe A serra, CNRS Institut Charles Sadron, France
- 10:10-10:50** **Title: Kelvin probe force microscopy with atomic resolution**
Yasuhiro Sugawara, Osaka University, Japan

Networking and Refreshments Break 10:50-11:10 @ Foyer

- 11:10-11:50** **Title: Towards the implementation of cobalt nanocrystals in real systems**
Katerina Soulantica, LPCNO-INSA, France
- 11:50-12:30** **Title: Novel 3D heterostructured catalysts for highly efficient oxygen reduction in solid oxide fuel cells**
John Zhu, The University of Queensland, Australia

Sessions: Nanotechnology: Environmental effects and Industrial safety | Nanotechnology & Energy | Nanomedicine & Nanobiotechnology, Nanoparticles | Nanomaterials- production, synthesis and processing

Session Chair: Christophe A serra, University of Strasbourg, France

Session Introduction

- 12:30-13:00** **Title: Removal of fluoride from water using composite of GO: Optimization of process variables through RSM**
Syed Hadi Hasan, Indian Institute of Technology (BHU), India
- 13:00-13:30** **Title: Iron based nanoparticles for the magnetically induced hydrogenation of carbon dioxide to methane**
Alexis Bordet, RWTH University, Germany

Lunch Break 13:30-14:10 @ Restaurant Gaumenfreund

- 14:10-14:40** **Title: Green synthesis of metal nanocatalysts for green catalysis**
Riny Yolanda Parapat, Iteas Bandung-TU, Berlin
- 14:40-15:10** **Title: Synthesis and characterization of two types of recyclable magnetic nano ferrite catalysts**
Seham S Alterary, King Saud University, Saudi Arabia
- 15:10-15:40** **Title: Nanogaguges for integration of strain sensors integrated into matter**
Thomas Maurer, University of Technology of Troyes, France
- 15:40-16:10** **Title: Cobalt hydroxide nanorings: From synthesis, characterization toward electrochemical energy storage**
Masih Darbandi, University of Tabriz, Iran

Networking and Refreshments Break 16:10-16:30 @ Foyer

Poster Presentations : 16:30-17:00 @ Meeting rooms

Poster Judge: Christophe A serra, University of Strasbourg, France

Panel Discussion

Day 3 November 08, 2017

Meeting Room @ Schwarzwald

Keynote Forum

Introduction

09:30-10:10 **Title: Multifunctional magneto-Plasmonic nanostructures for nanotherapies and imaging**
Borja Sepulveda, ICN2, Spain

10:10-10:50 **Title: Free-Standing nanostructures at atomic scale: From growth mechanisms to local properties at the nanoscale**
Jordi Arbiol, ICREA & Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC & BIST, Spain

10:50-11:30 **Title: Localized Programmable Gas Phase Electrodeposition; A new Transport Process with Applications Ranging from the Deposition of Functional Nanostructures to the Collection and Identification of Airborne Species for Sensing Applications**
Heiko O Jacobs, Nanotechnology Group TU Ilmenau, Germany

Networking and Refreshments Break 11:30-11:50 @ Foyer

Plenary Session

11:50-12:30 **Title: Effect of biocatalytic reactions on growth of semiconductor nanoparticles: Application to biosensing**
Valery Pavlov, CIC BiomaGUNE, Spain

Sessions: Nanomaterials- production, synthesis and processing | Bio-Nanomaterials and biomedical devices, applications | Nano photonics, Nano Imaging, Spectroscopy & Plasmonic devices | Micro/ Nano-fabrication, Nano patterning, Nano Lithography & Nano Imprinting | Nanotechnology & Energy
Session Chair: Borja Sepulveda, ICN2, Spain

Session Introduction

12:30-13:00 **Title: Photosensitization of zinc oxide: Novel visible-light-driven nanocomposites for photocatalytic removal of organic pollutants**
Aziz Habibi-Yangjeh, University of Mohaghegh Ardabili, Iran

13:00-13:30 **Title: Piezophototronic Based Sensors and Applications**
Junyi Zhai, Chinese Academy of Science, China

Lunch Break 13:30-14:10 @ Restaurant Gaumenfreund

Young Researchers Forum

Young Researchers Forum Judge: Borja Sepulveda, ICN2, Spain

14:10-14:30 **Title: Preparation of ultrasmall monodisperse upconversion nanocrystals and their size control using an intensified heat treatment process**
Alireza Kavand, Université de Strasbourg, CNRS, France

14:30-14:50 **Title: Antibacterial surface modification of Ti based material for implants**
Jie Sun, Centre of Electrochemical Surface Technology GmbH (CEST), Austria

14:50-15:10 **Title: Electroless deposition of Pt nanotube arrays: A template-based approach towards highly stable fuel cell catalysts**
Torsten Walbert, TU Darmstadt, Germany

15:10-15:30 **Title: A smart cell carrier nanosystem made from thiolated polysaccharides**
Pegah Esmaeilzadeh, Martin Luther University Halle Wittenberg, Germany

15:30-15:50 **Title: Electrochemical synthesis of ZnTe and Cu-ZnTe thin films for low resistive ohmic back contact for CdS/CdTe solar cells.**
Shivaji M Sonawane, Savitribai Phule Pune University, India

15:50-16:10 **Title: Investigation of doping of CdSe QDs in organic semiconductor for solar cell application**
Ganesh R Bhand, Savitribai Phule Pune University, India

16:10-16:30 **Title: Control of Mesoporous Silica Nanoparticles physicochemical properties through control of synthetic parameter using Box-Behnken design**
Mpho P Ngoepe, Rhodes University, South Africa

Plenary Session

16:30-17:10 **Title: Elucidating the role of Sn-substitution and Pb-(vac) in regulating stability and carrier concentration in CH₃NH₃Pb₁-X-YSnX(vac)YI₃**
Saswata Bhattacharya, Department of Physics, Indian Institute of Technology Delhi, New Delhi, India

Panel Discussion

Award & Closing Ceremony

Poster Presentations : 16:30-17:00 @ Meeting rooms @ Day-2, November 07

Poster Judge: Christophe A serra, University of Strasbourg, France

- NS-01** **Title: Electrohydraulic synthesis of magnetite nanoparticles for biological application**
Vladimer T Mikelashvili, Vladimir Chavchanidze Institute of Cybernetics of the Georgian Technical University, Georgia
- NS-02** **Title: Nano-Engineered titanium modulates macrophage polarization towards enhancing osteogenesis**
Ho-Jin Moon, Griffith University, Australia
- NS-03** **Title: Electrothermal control of upconversion emissions in rare-earth doped NaY(Gd)F₄ nanoparticles by coupling with silver nanowires networks: A versatile platform for in situ thermal experiments**
Eduardo D Martínez, Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas (UNICAMP), Brazil
- NS-04** **Title: Catalysis under cover: Enhanced reactivity at the interface between (doped) graphene and anataseTiO₂**
Martina Datteo, Dipartimento di Scienza dei Materiali, Università di Milano-Bicocca, via Cozzi 55, 20125 Milano, Italy
- NS-05** **Title: Tailoring of band-gap and optical properties of ZnO nanoparticles by doping with Fe**
Thaiskang Jamatia, Tomas Bata University in Zlin, Czech Republic
- NS-06** **Title: Preparation and characterization of MWNT-grafting-polyisoprene nanocomposites via ARGETATRP process**
Hyunseung Lee, Inje University, South Korea
- NS-07** **Title: Bacterial nanocellulose hemocompatibility assesment: Effect of drying and biomaterial microporosities on blood response**
Estefanía Martínez C, Universidad Pontificia Bolivariana, Colombia
- NS-08** **Title: Synthesizing spherical silver nanoparticles of uniform size using azadirachta indica leaf extract**
Ashu Jain, IIT Delhi, India
- NS-09** **Title: Investigation of 12-tungestophosphoric acid immobilized on zirconium modified SBA as catalyst for esterification of glycerol**
Ali Reza Mahjoub, Tarbiat Modares University, Iran
- NS-10** **Title: Structural and molecular characterization of biochemical interactions thorough microscopic examinations**
Maryam Kamalipourazad, Tarbiat Modares University, Tehran, Iran

Award & Closing Ceremony

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