

Scientific Program



29th International Conference on
**Nanomaterials and
Nanotechnology**

&

4th Edition of International conference on
**Advanced Spectroscopy,
Crystallography and
Applications in Modern
Chemistry**

April 25-26, 2019 | Rome, Italy

UK: Conference Series LLC Ltd
47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923

DAY-1

April 25, 2019

Meeting Hall: **Olimpica 2-20 Classroom**

08:30-09:00 Registrations

Opening Ceremony **09:00-09:15**

KEYNOTE FORUM

Introduction

09:15-09:45 **Title: Extreme Irradiation Tolerant Materials for Nuclear Energy Applications via Atomic Scale Design of Interfaces in Nanostructured Materials**
Michael Nastasi, University of Nebraska, USA

09:45-10:15 **Title: Combined Analysis: XRD-XRF-Raman within the EU SOLSA project**
Daniel Chateigner, Normandie Université, France

GROUP PHOTO

Networking & Refreshments 10:15-10:35 @ Foyer

10:35-11:05 **Title: SUNc Silver (I,II,III) Ultra Nano Clusters for Biomedical applications**
Luca Scotti, University of Chieti-Pescara, Italy

11:05-11:35 **Title: Theranostic albumin nanocarrier loaded with nerve growth factor stimulates brain recovery after stroke**
Tivadar Feczko, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Hungary

11:35-12:05 **Title: A DLS study on the aggregation behavior of Pluronic F127 in presence of chitosan/ clay nanocomposites**
Caterina Branca, University of Messina, Italy

12:05-12:35 **Title: Non-Euclidean Crystallography**
Emil Molnár, Budapest University, Hungary

Sessions: Nanoparticles | Applications of Nanomaterials | Biomedical Nanomaterials | Nanomedicine | Crystallography | Chemical Crystallography | Advanced Crystallography | Nuclear Magnetic Resonance Crystallography | Crystallography of Novel Materials

Chair: Han-Yong Jeon, Inha University, Korea

Co-Chair: Zhifeng Huang, Hong Kong Baptist University, China

INTRODUCTION

12:35-13:00 **Title: Some Implications of Scale-Invariant Model of Boltzmann Statistical Mechanics from Cosmic to Photonic Scales**
Siavash Sohrab, Northwestern University , USA

Lunch Break 13:00-13:40 @ Hotel Restaurants

13:40 - 14:05 **Title: Nanomaterials for Anti-Cancer Drug Delivery**
Natalya Rapoport, University of Utah, USA

14:05- 14:30 **Title: Engineering Active Nano/Micro Platforms for Targeted and Image-Monitored Drug Delivery**
Beata Chertok, University of Michigan, USA

14:30 - 14:55 **Title: Sol-gel Silica Nanoparticles in Medicine: A Natural Choice. Design, Synthesis and Products**
M. Clara Gonçalves, IST-CQE, Portugal

14:55-15:20 **Title: X-Ray Surface Radiolysis :Formation Of Metal-Organic Interface**
Michel Goldmann, Institut des NanoSciences de Paris , France

15:20 - 15:45 **Title: Interactions mediated by charged nanoparticles**
Klemen Bohinc, University of Ljubljana, Slovenia

15:45-16:10 **Title: SM-RAM – Superconducting Magnetic Random Access Memory based on the absolute spin valve effect**
Elia Strambini, NEST Istituto Nanoscienze-CNR and Scuola Normale Superiore, Italy

Networking & Refreshments 16:10-16:30 @ Foyer

16:30-16:55 **Title: The Raman spectrum of graphene in the light of picosecond laser excitation**
Carino Ferrante, Istituto Italiano di Tecnologia , Italy

16:55-17:20 **Title: Chiral Nanoparticles with Sub-10 nm Pitch: Fabrication, Characterization and Applications**
Zhifeng Huang, Hong Kong Baptist University, China

17:20-17:45 **Title: Determining the crystal structure of active drugs by NMR at natural abundance**
Staffan Schantz, AstraZeneca R&D, Sweden

17:45-18:10 **Title: Solute Binding Proteins and their cognate ligands: Structure, Function and their role in functional annotation**
Umesh Yadava, Deen Dayal Upadhyaya Gorakhpur University, India

Panel Discussion

DAY-2

April 26, 2018

Meeting Hall: **Olimpica 2-20 Classroom**

KEYNOTE FORUM

- 09:15-09:45** **Title: 2D transition metal dichalcogenides in electronic devices**
Antonio Di Bartolomeo, University of Salerno, Italy
- 09:45-10:15** **Title: Carbon nanostructure shapes matter: effect of morphology on functional composites**
Silvia Marchesan, University of Trieste, Italy
- Networking & Refreshments 10:15-10:35 @ Foyer**
- 10:35-11:05** **Title: Anti-corrosion and Anti-bacterial Novel electroless NiP-TiNi Nanocomposite Coating**
Aboubakr M. Abdullah, Qatar University, Qatar
- 11:05-11:35** **Title: An efficient approach for metal ions removal by using magnetic nanoparticles**
Aleksandra Lobnik, University of Maribor, Slovenia
- 11:35-11:55** **Title: NFFA-Europe: enhancing European competitiveness in nanoscience research and innovation**
Flavio Carsughi, Forschungszentrum Juelich, Germany

Sessions: Nanostructure | Scope of Nanomaterials | Nanoparticle|Applications of Nanomaterials | Crystal Engineering | Crystallography Applications | Spectroscopy Applications | Application of Modern Chemistry

Chair: Staffan Schantz, AstraZeneca R&D, Sweden

Co-Chair: Zhifeng Huang, Hong Kong Baptist University, China

INTRODUCTION

- 11:55-12:20** **Title: Application and Sustainability of PLA Based Geosynthetics to Environmental Fields by Considering of Evaluation Adaptability through Biodegradability Test**
Han Yong Jeon, Inha University, Korea
- 12:20-12:45** **Title: Ferrofluid stabilization in 1,2-propanol**
Alexandra Madeira, Sorbonne Université, France
- 12:45-13:10** **Title: Uptake and Translocation of Radioactive Labeled Nanoparticles in Plants**
Stanislav Smrcek, Charles University, Czech Republic
- Lunch Break 13:10-13:50 @ hotel Restaurants**
- 13:50-14:15** **Title: Theoretical Study on the Structures, Electronic and Magnetic Behaviors of Novel Composite Nanosystems by Adsorbing Superhalogen on the Low-dimensional BN Structures**
Xuri Huang, Jilin University, China
- 14:15-14:40** **Title: Tuball™ Single wall Carbon Nanotubes: Health, Safety & Environmental issues**
Van Kerckhove Gunther, OCSiAl Europe Sarl, Luxembourg

14:40-15:05 **Title: NIR photo-driven upconversion in amino and carboxyl functionalized NaYF₄:Yb,Er particles for in vitro cancer cell imaging**
Lidija Mancic, Institute of Technical Sciences of SASA, Serbia

15:05-15:30 **Title: The crystallographic glance on the LATP stability**
Mariam Pogosova, Skolkovo Institute of Science and Technology, Russia

15:30-15:55 **Title: The crystallography and pharmacological study of a novel anticoagulant drug: donepezil and valsartan co-crystal**
Du Guanhua, Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, China

Networking & Refreshments 15:55-16:15 @ Foyer

16:15-16:40 **Title: Nanofibrillated cellulose from tropical forest species**
Latifah Jasmani, Forest Research Institute Malaysia (FRIM), Malaysia

16:40-17:05 **Title: Mapping nanofields by Electron Holography**
Etienne Snoeck, CEMES-CNRS, France

YOUNG RESEARCHERS FORUM

17:05-17:20 **Title: Synthesis of Amino-Functionalized Graphene/ Bacterial Cellulose/Polyaniline Nanocomposite Materials by in-situ Chemical Oxidative Polymerization for Gas Detection**
Hanan Abdali, Polytechnique de Montréal, Canada

17:20-17:35 **Title: The Development of Electrical Heating Mortar by Using MWCNT**
Adar Karagöz, SAR Lab, France

POSTER PRESENTATIONS 17:35 @ FOYER

Poster Judge: Stanislav Smrcek, Charles University, Czech Republic

NC-01 **Title: Utilization of copper nanoparticles on preservation of radiata pine wood: leaching analyze**
Maria Graciela Aguayo, Universidad del Bío-Bío, Chile

NC-02 **Title: Nanosuspension with improved dissolution of cilostazol and effect of solidification on stability**
Isamedin A Ali Agrhbi, Semmelweis University, Hungary

NC-03 **Title: NFFA-Europe: enhancing European competitiveness in nanoscience research and innovation**
Flavio Carsughi, Forschungszentrum Juelich, Germany

NC-04 **Title: A Novel Class Nano Carrier Containing Pogliitazone for the Management of Diabetes**
Shripathy.D, Srinivas College of Pharmacy, India

NC-05 **Title: New peroxocompounds for medicine, their crystal structure and neuroprotective capacity**
Adrianna Sławińska, Polish Academy of Sciences, Poland

NC-06

Title: Single crystal x-ray structures of coordination-driven self-assemblies

Dong Hwan Kim, University of Ulsan, Republic of Korea

NC-07

Title: Characteristics of small molecule crystals and pharmaceutical application

Song Junke Lyu Yang Zhang Li DU Guanhua, Chinese Academy of Medical Sciences and Peking Union Medical College, China

PANEL DISCUSSION

Awards & Closing Ceremony

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E: Nanomaterials@nanotechnologyexpert.org
Website: nanomaterials.insightconferences.com

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