

24th World Nano Conference

May 07-08, 2018 | Rome, Italy



Conference Hall-Sirio

conference**series**.com 08:45-09:00

Opening Ceremony

Keynote Forum

- Introduction**
- 09:00-09:40 **Title: Atomic Force Microscopy AFM the ultimate toolkit for Nanoscience and technology**
Christoph Gerber, University of Basel, Switzerland
- 09:40-10:10 **Title: Nanoparticles and Dark Matter**
Thomas V Prevenslik, QED Radiations, Hong Kong
- 10:10-10:40 **Title: Iodine-doping effect of nano-particle/polymer composites**
Masaru Matsuo, Dalian University of Technology, China

Group Photo @ 10:40-10:45

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

- 11:00-11:30 **Title: High efficiency crystalline Si solar cells with simple structure fabricated with surface structure chemical transfer method**
Hikaru Kobayashi, Osaka University, Japan

Plenary Session

Sessions: Nanoscience and Technology | Nano Medicine | Nano Toxicology | Nanophotonics | Nano Composites | Nanotech for Energy and Environment | Nanoengineering | Materials Science and Engineering Physics

Session Chair: Thomas V Prevenslik, QED Radiations, Hong Kong

Session Co-Chair: Fatemeh Bahadori, Bezmialem Vakif University, Turkey

- 11:30-11:55 **Title: Ion Beam Synthesis of multifunctional Ag nanocrystals embedded in a dielectric matrix**
Caroline Bonafos, Université de Toulouse, France
- 11:55-12:20 **Title: Graphene biochip for multiplex biomarker detection**
Owen J Guy, Swansea University, UK
- 12:20-12:45 **Title: Novel 2D Materials**
María E Dávila, Instituto de Ciencia de Materiales de Madrid - CSIC, Spain

Lunch Break 12:45-13:15 @ Edon Restaurant

- 13:15-13:40 **Title: Hydrogen generation by reaction of Si nanopowder with water for medical use**
Yuki Kobayashi, Osaka University, Japan
- 13:40-14:05 **Title: Tunable optical buffer using coupled Photonic Crystal cavities**
Liam O'Faolain, Cork Institute of Technology, Ireland
- 14:05-14:30 **Title: Affordable large-area nanotechnologies for enhancement of thin-film solar cells**
Constantin R. Simovski, Aalto University, Finland
- 14:30-14:55 **Title: The study of local dipole moment and contact potential difference on TiO₂(110) surface by AFM**
YanJun Li, Osaka University, Japan
- 14:55-15:20 **Title: Terahertz light emission and lasing in graphene-based vdW 2D heterostructures**
Taiichi Otsuji, Tohoku University, Japan
- 15:20-15:45 **Title: Chemical thermodynamics for nano-systems**
George Kaptay, University of Miskolc, Hungary

Networking and Refreshment Break 15:45-16:00 @ Foyer

- 16:00-16:25** Title: **Nanostructured Surfaces of low-secondary Electron Emission to Prevent Multipactor Effect in High-Power RF Devices in Space**
Isabel Montero, Instituto de Ciencia de Materiales de Madrid - CSIC, Spain
- 16:25-16:50** Title: **Motion Control of nano/micro sized ceramics by Nano second pulse field**
Tadachika Nakayama, Nagaoka University of Technology, Japan
- 16:50-17:15** Title: **Atomic resolution imaging of topography and surface charges by Kelvin probe force microscopy**
Yasuhiro Sugawara, Osaka University, Japan

YRF Session

- 17:15-17:30** Title: **Polyomavirus based viral nanoparticles: A useful tool for targeting cancer cells affecting protein corona**
Jirina Zackova Suchanova, Charles University, Czech Republic
- 17:30-17:45** Title: **Active targeting of breast cancer using Pirarubicin-loaded biodegradable nanocarriers**
Zahra Eskandari, Yildiz Technical University, Turkey
- 17:45-18:00** Title: **In-vitro Investigation of Changes in Efficacy and Toxicity of Nano-Paclitaxel during Co-applications with Antioxidant Natural Compounds**
Fatma Kazdal, Yildiz Technical University, Turkey

Day 2 May 08, 2018

Conference Hall-Sirio

Keynote Forum

Introduction

- 09:00-09:30** Title: **Hall effect in bulk-doped organic single crystals**
Masahiro Hiramoto, Institute for Molecular Science, Japan
- 09:30-10:00** Title: **Innovative Functional Tungsten Disulfide (WS₂) Inorganic Nanotubes (f-INTs-WS₂) - Novel Non-Toxic Nanoscale Inorganic Polymer-Composite Inorganic "Nanofillers"**
Jean-Paul (Moshe) Lellouche, Bar-Ilan University, Israel
- 10:00-10:30** Title: **History of nanosciences**
Philippe Houdy, Evry Paris Saclay University, France

Networking and Refreshment Break 10:30-10:45 @ Foyer

- 10:45-11:15** Title: **Spaghetti & Lasagne - synthesis of 1D and 2D nanomaterials**
Gilbert Daniel Nessim, Bar-Ilan University, Israel

Plenary Session

Sessions: Nano Biotechnology | Nanobiomaterials | Nano Materials Synthesis and Characterisation | Pharmaceutical Nanotechnology | Graphene and its Applications | Nanoengineering | Nanocomposites

Session Chair: Jean-Paul (Moshe) Lellouche, Bar-Ilan University, Israel

Session Co-Chair: Anna L Kameneva, PNRPU, Russia

- 11:15-11:40** Title: **"Green" synergy of the nanotechnologies and heterogeneous catalysis**
Vera I. Isaeva, National University of Science and Technology "MISIS", Russia
- 11:40-12:05** Title: **Thermoacoustic sound projector: Beyond the fundamental efficiency of carbon nanotubes**
Ali E. Aliev, University of Texas at Dallas, USA
- 12:05-12:30** Title: **Ferromagnetic Single Crystalline Co nanorods integration in functional nanostructures**
Marc Respaud, Université de Toulouse, France
- 12:30-12:55** Title: **Gold nanoparticles for exogenously induced intracellular manipulation**
Marilena Carbone, University of Rome Tor Vergata, Italy

Lunch Break 12:55-13:25 @ Edon Restaurant

- 13:25-13:50** Title: **Opportunities and Challenges in Design and Applications of Nano Drug Delivery Systems**
Fatemeh Bahadori, Bezmialem Vakif University, Turkey

13:50-14:15 **Title: Nanofibers by electrospinning: intriguing nanomaterials for electrochemical conversion of environmental resources**

Marzia Quaglio, Italian Institute of Technology, Italy

Speaker Session

14:15-14:40 **Title: Wear resistance of multilayer nanostructured coatings in 3% NaCl and 5% NaOH**
Anna L Kameneva, PNRPU, Russia

14:40-15:05 **Title: Mechanical properties of polyoxymethylene/functionalized hydroxyapatite nanocomposites**

Beata Macherzyńska, AGH University of Science and Technology, Poland

15:05-15:30 **Title: Polyurethane/hydroxyapatite/magnetite composites for biomedical applications**
Katarzyna Nowicka, AGH University of Science and Technology, Poland

15:30-15:55 **Title: Ionic transport through patterned surface nano channels fabricated on self-assembled organosilane monolayers**

Bedanta Gogoi, Weizmann Institute of Science, Israel

Networking and Refreshment Break 15:55-16:10 @ Foyer

Poster Presentations 16:10-17:00 @ Foyer

Poster Judge: Vera I. Isaeva, National University of Science and Technology "MISiS", Russia

WN-01 **Title: Possibility of using hetero-derivatives of fullerene C60 as the carriers of drugs containing benzene, naphthalene or anthracene ring - endohedral complexes @C54Y6**

Monika K. Grudzień, Medical University of Warsaw, Poland

WN-02 **Title: Pre-Formulation of Solid Preparations Based on Nano-Montmorillonit**

Zeynep Küçük, Bezmialem Vakif University, Turkey

WN-03 **Title: Investigation of Pharmacokinetics of orally administered Montmorillonit Using Fluorophore Compounds**

Buse Hande Cerci, Bezmialem Vakif University, Turkey

WN-04 **Title: Optimization of a New Controlled Release Oral Dexketoprofen Formulation**

Bilgesu Beria Sevim, Bezmialem Vakif University, Turkey

WN-05 **Title: Cubosomes – liquid-crystalline nanoparticles as a potential bioimaging systems**

Jakub Jagielski, Nanobiomedical Centre, Poznan, Poland

WN-06 **Title: Fabrication and Characterization of Electrospun Silica Nanofibers through Sol-gel Method along with in situ Synthesis of silver nanoparticles**

Mahsa Kangazian Kangazi, Amirkabir University of Technology, Iran

WN-07 **Title: Green biosynthesis of Silver Nanoparticles (AgNPs) by using aqueous extracts of Hypericum perforatum L (St John's wort) for cancer targeting**

Abdallah Alahmad, Leibniz University of Hannover, Germany

WN-08 **Title: Patterned growth of graphene by using Cr seed**

Songjae Lee, Sungkyunkwan university, Republic of Korea

WN-09 **Title: Electrochemical Immunosensor based on graphene quantum dots@Carbon nanotubes composite for foodborne mycotoxin detection**

Hema Bhardwaj, CSIR-National Physical Laboratory, India

WN-10 **Title: Magnetite-filled micelles as a versatile delivery vehicle for a TLR4 mediated cancer nanovaccine**

Giordano Traini, CIC biomaGUNE, Spain

WN-11 **Title: MoS2-reduced graphene oxide composites materials for optoelectronics device**

Sweetie Sarma, UNISA, South Africa

WN-12 **Title: Production of Hydrophobic Nano-solutions for Concrete Water repellent**

Awni Al-Otoom, Jordan university of science and technology, Jordan

Panel Discussion

Award Ceremony