

# 3<sup>rd</sup> International Conference on Nanotechnology and Materials Science Rome-2019

*July 22-24, 2019*  
*Venue: Rome, Italy*

## Day 1 July 22, 2019

08.00-09.00 Registrations & Opening Ceremony

## Keynote Session

- 09.10-09.45 Title: CAD/CAM methodology of production the implantable prosthetic restorations from titanium and its alloys applying Selective Laser Sintering and Atomic Layers Deposition  
Leszek A. Dobrzański, President of the World Academy of Materials and Manufacturing Engineering, Poland
- 09.45-10.20 Title: Array of MOX Chemical Sensors for Agri-Food Field Improvements  
Giorgio Sberveglieri, President CEO NANO SENSOR SYSTEMS SRL - Italy
- 10:20-11:00 Title: Will new insight into nano scale phenomena change the view of life in mass-societies: Giant T-patterned strings and self-similarity from protein to human societies  
Magnus S. Magnusson, Director of Univeristy of Iceland, Iceland

## Coffee & Refreshment Break

11.00-11.10

- 11.10-11.30 Title: Effects of nano-and micro-particles on sintered Ni-Zn ferrites  
Carolina Clausell-Terol, Jaume I University of Castellón, Spain
- 11.30-11.50 Title: Single Digit Nanofabrication for Photonics at Nanoscale  
Stefano Cabrini, National Laboratory Berkeley CA, USA
- 11.50-12.10 Title: New Materials Derived from Nanoparticles at Interfaces To Ngai, The Chinese University of Hong Kong, Hong Kong
- 12.10-12.30 Title: Biocompatible and bio-inspired micro- and nano- structures for drug- delivery.  
Rosaria Rinaldi, University of Salento, Italy

**12.30-12:50** Title: **Glassy and Nanosized Layered Mixed  $\alpha$ - Zirconium-Tin Phosphates/Fibrous Cerium Phosphate -Nanocomposite Membranes Self Supported Carbazole, Aniline , Pyrrole , Indole Polymerization Agent**  
**Sadek. K. Shakshooki**, University of Tripoli, Libya

## Lunch Break

12.50-13.50

- 13.50-14.10** Title: **Management of Pharmaceutical Industry Effluent by Nanoparticles**  
**Sampath Kumar MC**, B.M.S College of Engineering, India.
- 14.10-14.30** Title: **Surface Driven Hot-Electron Photoemission for Water Splitting in Nanoporous Gold**  
**Manfred Eich**, Hamburg University of Technology, Germany  
(Invited Speaker)
- 14.30-14.50** Title: **Few-layer transition metal dichalcogenides in back-gate field effect Transistor**  
**Antonio Di Bartolomeo**, University of Salerno, Italy (Invited Speaker)
- 14.50-15.10** Title: **Nanostructured polystyrene foams for vacuum insulation panels**  
**Flávia A. Almeida**, Va-Q-tec AG, Germany
- 15.10-15.30** Title: **Harnessing nanotechnology and materials science in Precision Therapeutic Approaches for the treatment of chronic diseases**  
**Andrew David Miller**, Veterinary Research Institute, Czech Republic
- 15.30-15.50** Title: **Fusible glass-crystalline materials for functional layer of film heating elements**  
**Zoia Duriagina** Lviv, Polytechnic National University, Ukraine

## Coffee & Refreshment Break

15.50-16.05

- 16.05.-16.25** Title: **Exploiting microbial polysaccharides and polyesters as materials for Novel Polymeric Structures**  
**Filomena Freitas**, University Nova of Lisbon, Portugal
- 16:25-16:45** Title: **Nanometric characterization of conformation of single polymer chain in ultra-thin film**  
**Hiroyuki Aoki**, Japan Atomic Energy Agency, Japan

16:45-17:05 Slots Available

17:05-17:25 Title: Graphene Based Nanofiber Reinforced Cementitious Composites: Potential and Challenges  
K.M.A Hossain, Ryerson University, Canada

17:25-17:45 Slots Available

Day 1 Closed

Day 2 July 23, 2019

Keynote Session

09.00-09.35 Title: Metal-Chalcogenide Superatomic Clusters as Tunable Chemical Dopants for Two-Dimensional Semiconductors  
Shiv N Khanna, Virginia Commonwealth University, USA

09.35-10.10 Title: Study of plasma transient process in lightning using the BSM-SG models of atoms and elementary particles  
Stoyan Sarg Sargoytchev, World Institute for Scientific Exploration, USA

10:10 – 10:45 Title: Outlining the forefront research in the field of Nanotechnology and Materials Science  
Richard Mbaya, Tshwane University of Technology, South Africa

10:45 – 11:20 Title: Guiding of highly charged ions through nano-capillaries in insulating materials: milestones in experiments and simulations  
Nikolaus Stolterfoht, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany

Coffee & Refreshment Break

11.20-11.35

11.35-11.55 Title: Advanced Li-Microbatteries using 3D Nanostructured Materials  
Thierry Djenizian, Ecole des Mines de Saint-Etienne, France

11.55-12.15 Title: Study of the durability of a high-performance self-compacting concrete with nano- and micro-silica additions  
Encarnación Reyes, University of Madrid, Spain

12.15-12.35 Title: Chemical and structural effects on the friction on the wear of metal alloys : a nanotribological approach  
Arnaud Caron, Korea University of Technology and Education, Korea

12.35-12.55 Title: Structure and dielectric properties of Ni-doped bismuth magnesium niobate pyrochlores  
Libin Gao, University of Electronic Science and Technology of China, China

- 14.00-14.20      **Title: Critical behaviour in Nd<sub>2</sub>Pt<sub>2</sub>In studied using the magnetocaloric effect:comparison with the conventional method**  
Moise B. Tchoula Tchokonté,University of Western Cape, South Africa
- 14.20-14.40      **Title: Tribological Properties of Metallic Surfaces using Molecular Dynamic Simulations**  
SP Singh, Indian Institute of Technology, Delhi
- 14.40-15.00      **Title: Conductive lubricants for high electricity motors**  
Omri Yadgar, Ben-Gurion University, Israel
- 15.00-15.20      **Title: Titanium oxide nanostructures: from growth to application as Chemical sensors**  
Dario Zappa, Università degli studi di Brescia, Italy
- 15.20-15.40      **Title: Lithium Materials: New materials for electrochemical energy sources**  
Marisa Alejandra Frechero, CONICET- Universidad Nacional del Sur ( UNS), Bahía Blanca, Argentina

**Coffee & Refreshment Break**

15.40-16.00

**Poster Presentation**

16.00-17.00

- 17.00-17:20      **Title: Comparative study of bean growth using traditional and nanophosphate fertilizers**  
Tarek Abdelbaky, Cairo University, Egypt

- 17.20-17.40      **Title:Anatomical Study of fresh and aged Coconut waste**  
Priya V, T John Insitute of Technology,India

- 17.40-18.00      **Slots Available**

**Day 2 Closed**

**Day 3 July 24, 2019**

**Keynote Session**

09.00-09.35

Slots Available

09.35-10.10

Slots Available

**Coffee & Refreshment Break**

**10.10-10.30**

10.30-10.50 Title: Crystal growth and optoelectronic application of core-shell structure consisting of GaN nanowires and GaInN/GaN multi-quantum shell (MQS)  
Satoshi Kamiyama, Meijo University, Japan

10.50-11.10 Slots Available

11.10-11.30 Slots Available

11.30-11.50 Slots Available

11.50-12.10 Slots Available

12.10-12.30 Slots Available

12.30-12.50 Slots Available

**Coffee Break**

**15.50-16.10**

13.50-14.10 Slots Available

14.10-14.30 Slots Available

14.30-14.50 Slots Available

14.50-15.10 Slots Available

15.10-15.30 Slots Available

15.30-15.50 Slots Available

16.10-16.30	Slots Available
16.30-16.50	Slots Available
16.50-17.10	Slots Available
17.10-17.30	Slots Available
17.30-17.50	Slots Available

## Poster Presentation 16.00-17.00 Day 2, 23 July

- P1** Title: Targeting effect of liposome containing CPE17 for pancreatic Cancer chemotherapy  
Jong Ho Kim, Kyung Hee University, South Korea
- P2** Title: Shape Effect on the Refractive Index Sensitivity of Localized Surface Plasmon Resonance Inflection Points in Single Gold Nanocubes with Vertices  
Hui Bin Jeon, University of Ulsan, South Korea
- P3** Title: Hydrogen production from low temperature water gas shift reaction over nano-sized Cu- Ce<sub>0.8</sub>Zr<sub>0.2</sub>O<sub>2</sub> catalyst  
Hui-Ju Byeon, Changwon National University, South Korea
- P4** Title: Enhanced catalytic activity of CeO<sub>2</sub> promoted Cu/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalysts by preparation method for high temperature water gas shift reaction  
Min-Ju Park, Changwon National University, South Korea
- P5** Title: Application of Cleaner Production in Surface Coating Industries: A Comparative study.  
Priyanka Digwal, B.M.S College of Engineering, India
- P6** Title: Studies on Cleaner Technology Mechanisms in an Optical Products Manufacturing Industry  
Ravina Telang, B.M.S College of Engineering, India
- P7** Title: Application of Environmental management system in an automotive industry  
Chaithra G Walishettar, B.M.S College of Engineering, India
- P8** Title: Development On The Synthesis and Electrical Conductivity of Nanosized Layered, Pellicles and Fibrous Membranes of Tetravalent Metal Phosphates  
Fituri Ayad Farhat Alakari, University of Tripoli, Libya