

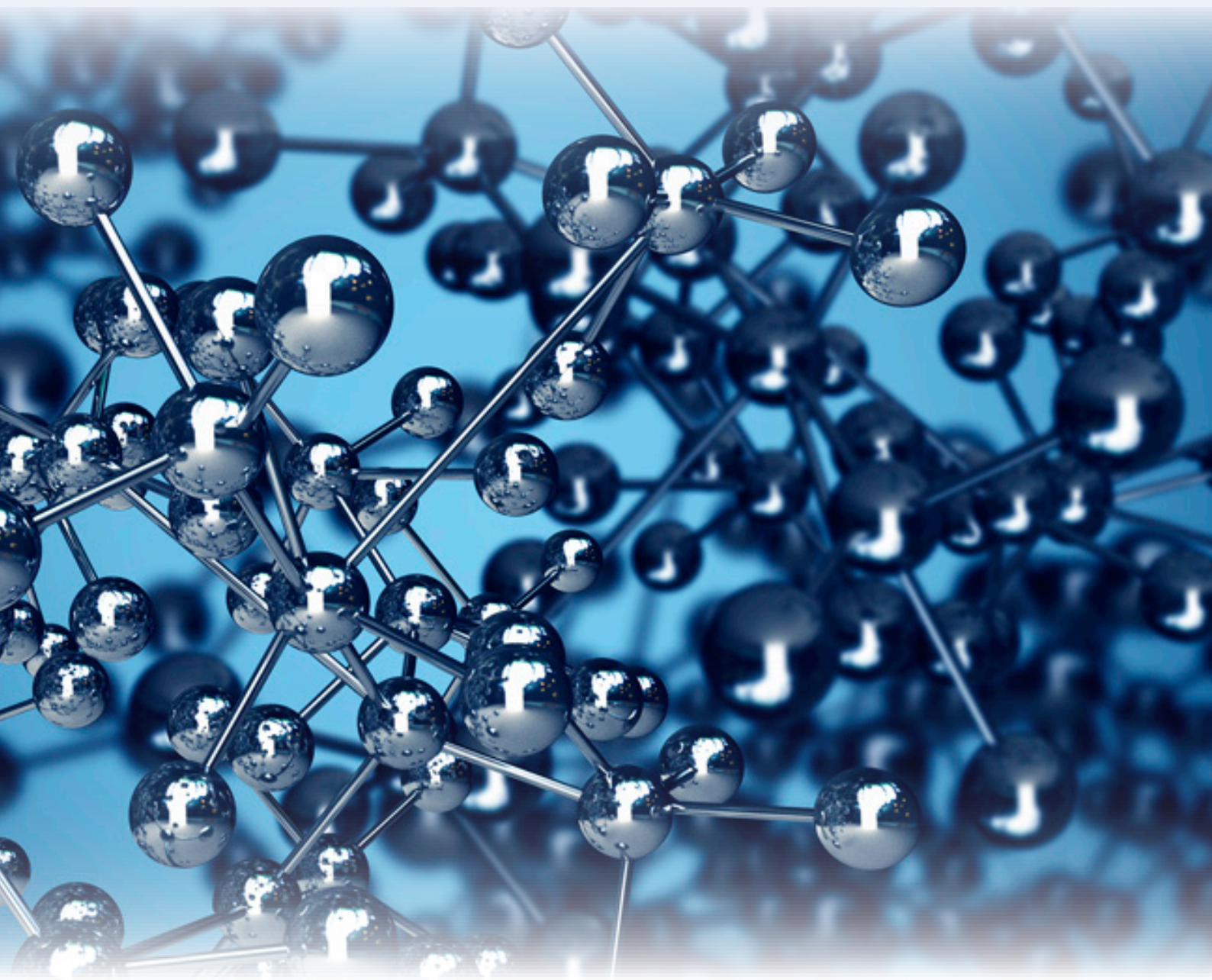
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1309 Conference

*Scientific Program*

World Congress on

# **Nanoscience & Nanotechnology**

October 16-17, 2017 Dubai, UAE



**Hosting Organization: Conference Series**

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08:45-09:15 Registrations

Salon VII

conferenceseries.com

09:15-09:25

## Opening Ceremony

### Keynote Forum

09:25-09:30 Introduction

**Title: Understanding the structure of human dental tissues and their carious decay using advanced correlative microscopy**

09:30-10:15

Alexander M Korsunsky, University of Oxford, UK

10:15-11:00

**Title: Structuring of chalcogenide glasses spin coated thin layers**

M Vlcek, University of Pardubice, Czech Republic

Group Photo & Refreshments and Networking Break 11:00-11:15 @ Pre-Conference Area

11:15-12:00

**Title: Nanoporous materials in wastewater treatment: How to improve their retention performance towards ionic pollutants in multi-component aqueous streams?**

Jerzy Zajac, University of Montpellier, France

12:00-12:45

**Title: Challenges to nanoscience and nanotechnology: Intriguing nanosize effect and nanotime effect**

Xianfang Zhu, Xiamen University, China

Lunch Break 12:45-13:45 @ Pre-Conference Area

#### Sessions:

Advance Nanomaterials and Nanoparticles | Nanotechnology in Energy and Environment | Materials Science and Nanotechnology | Nano Electronics and Microsystems | Nanotechnology in Waste Water Treatment

Session Introduction

Session Chair: Nikolaus Stolterfoht, Helmholtz-Zentrum Berlin, Germany

Session Co-Chair: Jerzy Zajac, University of Montpellier, France

13:45-14:15

**Title: The importance of nanoarchitecture in advanced high performance heterogeneous catalysts**

Mike S Scurrell, University of South Africa, South Africa

14:15-14:45

**Title: Robust resistive memory devices based on solution processable metal co-ordinated azo-aromatics**

Jens Martin, National University of Singapore, Singapore

14:45-15:15

**Title: Development of organic and inorganic nanoparticles and their subsequent application in nanocomposites for food and non-food packaging systems**

D C Saxena, Sant Longowal Institute of Engineering & Technology, India

15:15-15:45

**Title: THz modulators based 2D nanosheet materials**

Zhaoxin Geng & Hongda Chen, Chinese Academy of Sciences, China

15:45-16:15

**Title: Transition metal oxide nanostructures and their novel properties**

Kalyan Mandal, S N Bose National Centre for Basic Sciences, India

Refreshments and Networking Break 16:15-16:30 @ Pre-Conference Area

### Young Research Forum

16:30-16:50

**Title: Action roadmaps paving the way towards electric mobility and circular economy**

Mika Naumanen, VTT Technical Research Centre of Finland, Finland

16:50-17:10

**Title: Synthesis and characterization of TiN NWs towards neural electrode application**

Roaa Sait, Emerging Technologies Research Centre, UK

17:10-17:30

**Title: Biocompatible multifunctional magnetic nanoparticles for possible applications in nanomedicine**

Silvia Villa, University of Genoa, Italy

Panel Discussion

## Salon VII

### Keynote Forum

**09:30-10:15** Title: **Guiding of highly charged ions through nanocapillaries in insulating materials: Milestones in experiments and simulations**

**Nikolaus Stolterfoht**, Helmholtz-Zentrum Berlin, Germany

**10:15-11:00** Title: **Quantum technology based on superconductivity in boron-doped nanocrystalline diamond films**

**Somnath Bhattacharyya**, University of the Witwatersrand, South Africa

Networking Break 11:00-11:15 @ Pre-Conference Area

**11:15-12:00** Title: **Developing a sustainable circular economy strategy for electric mobility: Assessing the role of Li-ion battery technology**

**Rafael Popper**, VTT Technical Research Centre of Finland, Finland

**12:00-12:45** Title: **Stem Cells: The new frontier of drugs**

**Giuseppe Mucci**, Bioscience Clinic and Bioscience Institute, UAE

Lunch Break 12:45-13:45 @ Pre-Conference Area

**13:45-14:45** Title: **Nanomaterials for 3<sup>rd</sup> generation sensitized solar cells**

**Basma EL Zein**, University of Business and Technology, Saudi Arabia

#### Sessions:

**Materials Science and Nanotechnology | Applications of Nanotechnology | Nanomedicine | Molecular Nanotechnology | Nano Chemistry | Nano Bio Materials**

Session Introduction

**Session Chair:** M Vlcek, University of Pardubice, Czech Republic

**Session Co-chair:** Mike S Scurrall, University of South Africa, South Africa

**14:45-15:15** Title: **Calix[n]arene based multi-functional porous materials for environmental applications**

**Ali Trabolsi**, New York University Abu Dhabi, UAE

**15:15-15:45** Title: **ZnO synthesis using wet chemical growth with various nanostructures**

**Haythem Suliman Basheer**, University of Bahri, Sudan

Networking Break 15:45-16:00 @ Pre-Conference Area

**16:00-16:30** Title: **Competition for Grb2 recruitment between EphA2 and EGFR during ligand activation**

**Dongmyung Oh**, National University of Singapore, Singapore

**16:30-16:50** Title: **The effects of wave characteristics on energy generation during additive manufacturing**

**Peng-Sheng Wei**, National Sun Yat-Sen University, Taiwan

**16:50-17:10** Title: **Single-molecule fluorescence enhancement by gold nanorods: An application to electrochemistry**

**Martin Caldarola**, Leiden University, Netherlands

#### Poster Presentations @ 17:10-17:50

**APNC-01** Title: **PGM nanoparticles and hybrid nanocomposites by gamma radiolysis/EISA**

**T Cele**, University of South Africa, South Africa

**APNC-01** Title: **Synthesis of starch nanoparticles by acid hydrolysis alone and coupled with other technique and their subsequent characterization and utilization**

**Mamta Bhardwaj**, Sant Longowal Institute of Engineering & Technology, India

#### Award Ceremony & Closing Session

## Next in Series

2<sup>nd</sup> World Congress on

# Nanoscience and Nanotechnology

August 22-23, 2018 Tokyo, Japan