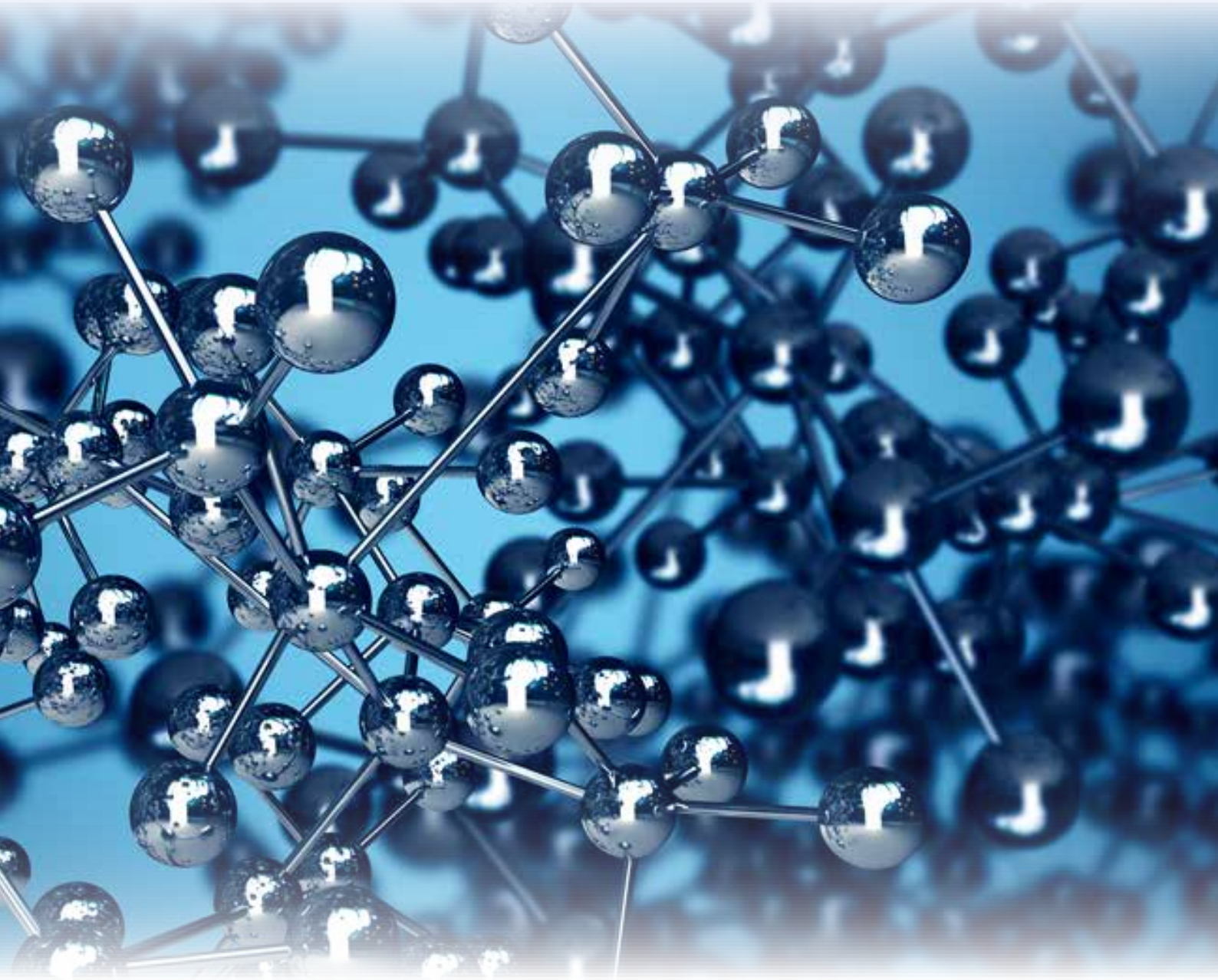
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1309 Conference

Scientific Program

World Congress on

Nanoscience & Nanotechnology

October 16-17, 2017 Dubai, UAE



Hosting Organization: Conference Series
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Day 1 October 16, 2017

08:45-09:15 **Registrations**

Salon VII

conferenceseries.com **09:15-09:25** **Opening Ceremony**

Keynote Forum

09:25-09:30 **Introduction**

09:30-10:15
Title: Understanding the structure of human dental tissues and their carious decay using advanced correlative microscopy
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

Day 2 October 17, 2017

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

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 Scurrell, University of South Africa, South Africa

13:45-14:15	**Title: Nanomaterials for 3rd generation sensitized solar cells** **Basma EL Zein,** University of Business and Technology, Saudi Arabia
14:15-14:45	**Title: Competition for Grb2 recruitment between EphA2 and EGFR during ligand activation** **Dongmyung Oh,** National University of Singapore, Singapore
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: Unusual ferromagnetism at nanoscale due to surface-spin-reorientation** **Bhaskar Das,** University of Nebraska, USA
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 Cermony & Closing Session

Next in Series

2nd World Congress on

Nanoscience and Nanotechnology

August 22-23, 2018 Tokyo, Japan