

20<sup>th</sup> International Conference on

# Advanced Nanotechnology

September 11-12, 2017 | Amsterdam, Netherlands

**Allied Academies - UK**

85 Great Portland St, Marylebone, London W1W 7LT, United Kingdom

# Conference Day 1 | September 11, 2017

## Meeting 2

09:00-09:30

Registration Desk Opens

09:30-09:45

Welcome Note & Opening Ceremony

### KEYNOTE

09:45 - 10:25

**Title: Selective detection of glucose, cholesterol and urea with metal-oxide nanostructures based field-Effect transistors array biosensors**

**Yoon-Bong Hahn**, Chonbuk National University, Republic of Korea

10:25-11:05

**Title: Hybrid materials by ALD-Derived methods: Opportunities for novel material design**

**Mato Knez**, CIC nanoGUNE, Spain

Group Photo @ 11:05-11:10

NETWORK & REFRESHMENT BREAK 11:10-11:25@ Pre function

11:25-12:05

**Title: Small is big: Magic microfluidic droplets**

**Liqui Wang**, University of Hong Kong, Hong Kong

12:05-12:45

**Title: Bioinspired gradient micro and nanostructured surfaces with controlling of dynamic wettability**

**Yongmei Zheng**, Beihang University, China

12:45-13:15

**Title: Improved SWIR photo-Detection in the context of sub-Wavelength structuration**

**Jean-Luc Pelouard**, University of Paris-Saclay, France

LUNCH BREAK 13:15-14:15@ The Gallery

14:15-14:55

**Title: Acousto-Magneto-Plasmonics for future applications in nanophotonics**

**Vasily Temnov**, University of Maine, France

14:55-15:25

**Title: Light emission based on electrically-Fed nanogap optical antennas**

**Claire Deeb**, University of Paris-Saclay, France

Major Sessions: Advanced Nanomaterials | Nano Particles| Material science | Nanostructures | Nanomaterials

Session Chair: Jan Weyher, Institute of High Pressure Physics - Polish Academy of Sciences, Poland

Session Co-chair: Claire Deeb, University of Paris-Saclay, France

#### Session Introduction

15:25-15:55

Title: Deformation rate dependence of atomic force microscope based nanomechanical measurements

Samuel Lesko, Bruker Nano GmbH, France

#### NETWORK & REFRESHMENT BREAK 15:55-16:10@ Pre function

16:10-16:40

Title: Nanoelectronics based on ultra-Robust metal-Terpyridine oligomer films and chemical or optical molecular switches

Wrochem Florian, Sony Europe GmbH, Germany

16:40-17:10

Title: AFM characterization of the physicochemical properties and activity of single protein molecules CYP 102A1 (BM3)

Yuri Ivanov, Institute of biomedical chemistry, Russia

17:10-17:40

Title: Nanofiber technology for 3D nano-Biointerface fabrication and cellular engineering

Menglin Chen, Aarhus University, Denmark

#### PANEL DISCUSSIONS

## Conference Day 2 | September 12, 2017

### Meeting 2

#### KEYNOTE

09:30-10:10

Title: Targeting the reprogrammed energy generation system of cancer cells

Uri Nir, Bar-Ilan University, Israel

10:10-10:50

Title: Wetting of water on graphene

Daniel Bonn, University of Amsterdam, Netherlands

#### NETWORK & REFRESHMENT BREAK 10:50-11:05@ Pre function

11:05-11:45

Title: Technology of nano-Structuring of GaN for surface enhanced raman spectroscopy (SERS) measurements

Jan Weyher, Institute of High Pressure Physics - Polish Academy of Sciences, Poland

11:45-12:20

**Title: Nanoscale engineering of plasmonic materials for biosensing**  
**Elizabeth Fang Xie**, Imperial College London, UK

**Major Sessions: Nano photonics | Nanomedicine | Nano Science and Technology | Applications of Nanotechnology | Nano Electronics**

**Session Chair: Mato Knez**, CIC nanoGUNE, Spain

**Session CO-chair: Vasily Temnov**, University of Maine, France

**Session Introduction**

12:20-12:50

**Title: Electrical properties of single ZnO nanowires prepared by wet and dry methods**  
**Andreea Costas**, National Institute of Materials Physics, Romania

12:50-13:20

**Title: Electrical properties of single core-Shell metal oxide nanowires**  
**Camelia Florica**, National Institute of Materials Physics, Romania

**LUNCH BREAK 13:20-14:20 @ The Gallery**

**Young Researchers Forum (YRF)**

**YRF Judge: Yongmei Zheng**, Beihang University, , China

14:20-14:50

**YRF: Preparation and study on radar absorbing materials of epoxy-Fe<sub>3</sub>O<sub>4</sub> composites and the influence of PANI on microwave absorbing properties of NiFe<sub>2</sub>O<sub>4</sub>/PVB composites**  
**Yuksel Akinay**, Karabuk University, Turkey

14:50-15:20

**YRF: Maintaining biomolecules native conformation upon surface immobilization and extracting their size and shape: A study employing the QCM-D biosensor**  
**Dimitra Milioni**, Institute of Molecular Biology and Biotechnology - Foundation for Research and Technology Hellas, Greece

15:20-15:50

**YRF: Investigation of the effect of indium and arsonic on the photoluminescence properties of in GaPN and GaAsPN solar cell**  
**Hind Albalawi**, Nottingham University, UK

**NETWORK & REFRESHMENT BREAK 15:50-16:05@ Pre function**

16:05-16:35

**YRF: Multiple hot spots 3D nanostructures: Ultrasensitive substrates for surface-Enhanced raman spectroscopy**  
**Andrea Cerea**, University of Genova, Italy

**Video presentation**

16:35-16:55

**Title: Molten region growth on an array of cylinders on metal surface subject to a pulsed laser beam**  
**Peng-Sheng Wei**, National Sun Yat-Sen University, Taiwan

**Poster Presentations: 16:55-17:40@ Pre function**

**Poster Judge: Yuri Ivanov**, Institute of Biomedical Chemistry, Russia

Poster-1

**Title : Dyes degradation by using M<sup>o</sup> nano particles incorporated in SiO<sub>2</sub> matrix**  
**Liraz Kuztashi**, Ariel University, Israel

Poster-2

**Title : Identification and estimation of nonlinearity in nanometrology system resulting from target velocity**  
**Saeed Olyae**, Shahid Rajae Teacher Training University, Iran

Poster-3

**Title : Fabrication of highly selective sensor based on Mn- Doped ZnO nanostructures**  
**Azam Anaraki Firooz**, Shahid Rajae Teacher Training University, Iran

Poster-4

**Title : Electrochemical sensor based on multi-Walled carbon nanotubes – Boehmite nanoparticle composite modified electrode**  
**Masoumeh Ghalkhani**, Shahid Rajae Teacher Training University, Iran

Poster-5

**Title : Study the nickel concentration effect in electro deposition solution on performance of nano Pt-Ni/Ni electrodeposited electro catalyst for methanol oxidation reaction in alkaline media**  
**Rasol Abdullah Mirzaie**, Shahid Rajae Teacher Training University, Iran

**PANEL DISCUSSIONS**

**Thanks Giving & Closing Ceremony**