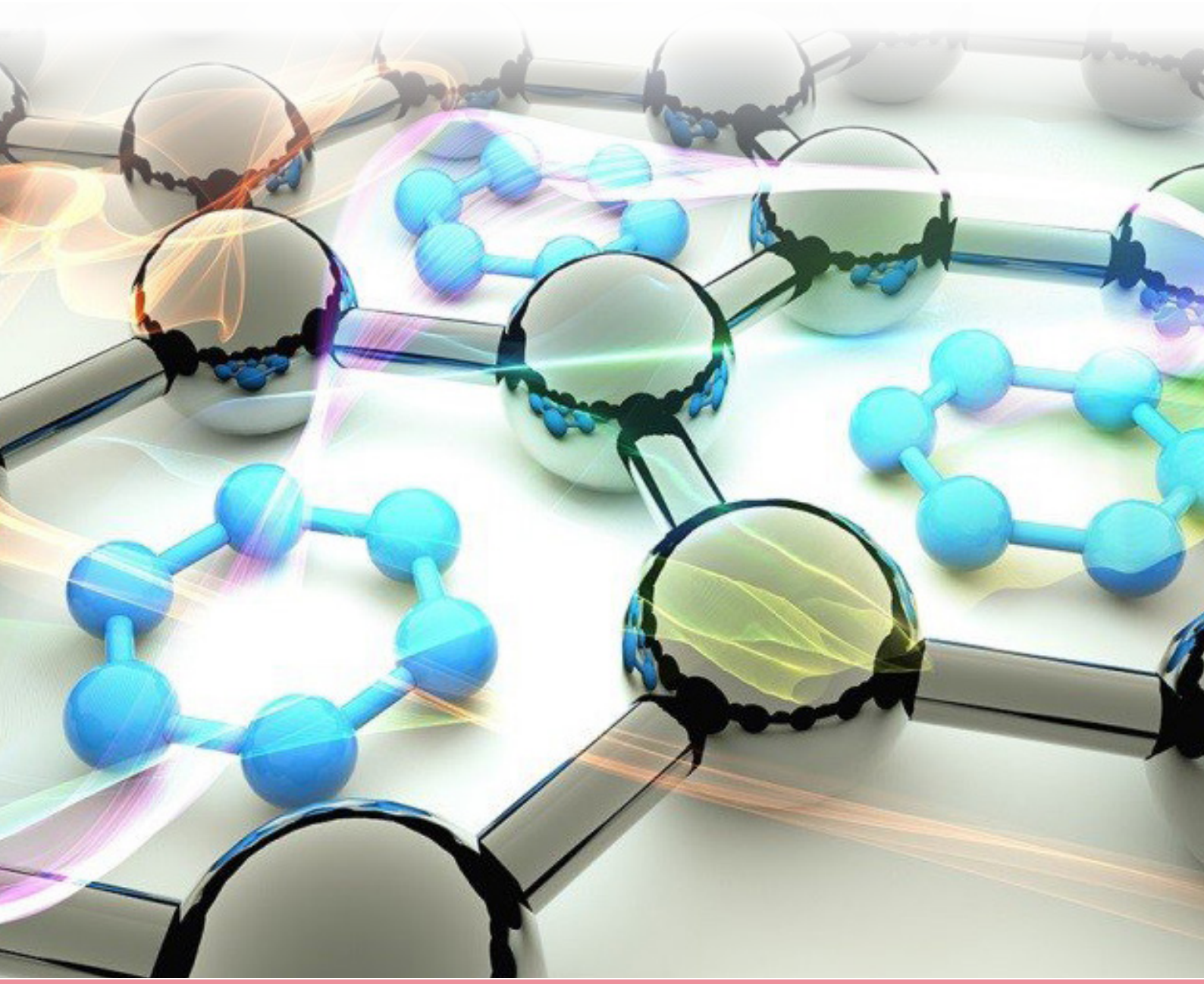
22nd International Conference on

ADVANCED MATERIALS AND SIMULATION

&

22nd Edition of International Conference on

NANO ENGINEERING & TECHNOLOGY



December 10-12, 2018

Rome, Italy

EuroSciCon

https://advancedmaterials.euroscicon.com/
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Advanced Materials 2018 & Nano Engineering 2018

Agenda Day 1: December 10, 2018

Olimpica 1

08:00-09:00	**Registration**
09:00-09:30	Opening Ceremony

Keynote Forum

Introduction

09:30-10:10	**Title: 1-D ZnO/PANI and ZnO/PPy composites based photoluminescence sensor for detection of acetic acid involved in cultural heritage deterioration** Mehmet Turemis, Biosensor Srl, Italy
10:10-10:50	**Title: Integration of III-V nanowires on Si ant their transistor applications** Katsuhiro Tomioka, Hokkaido University, Japan

Group Photo & Networking & Refreshment Break: 10:50 - 11:10 @ Foyer

11:10-11:50	**Title: Metal nanoparticle electroless deposition and nanostructure production on silicon** Shinji Yae, University of Hyogo, Japan

Sessions: Nano devices and structured materials | Polymer Science and Engineering | Nano Sensors and Biosensors | Advancement in Nanomaterials and Nanotechnology | Nano engineering and Nano Technologies | Biomaterials | Nano Biotechnology | Simulation of Materials Processing and Technology | Carbon based Nanomaterials Devices and Technologies | Failure Analysis and Preventions | Adhesives and Joining Technologies

Session Introduction

Session Chair: Imran Rizvi, University of North Carolina, USA

Session Co-Chair: Woojin Lee, Nazarbayev University, Kazakhstan

11:50-12:20	**Title: Electrochromic and electrochemical sensors based on conjugated polymers doped Prussian blue** Arunas Ramanavicius, Vilnius University, Lithuania
12:20-12:50	**Title: Physicochemical properties and antineoplastic effect of omega-3 PUFA loaded in resveratrol-based solid lipid nanoparticles in human colorectal cancer cells *in vitro*** Simona Serini, Universita Cattolica del S. Cuore, Italy
12:50-13:20	**Title: Vacuum insulation glass finite element analysis of temperature induced stresses and displacements: the Eensulate case study** Andrea Trevisi, RINA Consulting S P A , Italy

Lunch Break: 13:20-14:05 @ Hotel Restaurant

14:05-14:35	**Title: The characteristics of Ni-Cr-Mn-Y-Cu thin film resistors** Ying Chieh Lee, National Pingtung University of Science & Technology, Taiwan
14:35-15:05	**Title: Fluidic stress modulates biomarker expression and therapy response in 3d ovarian cancer nodules** Imran Rizvi, University of North Carolina, USA
15:05-15:35	**Title: Silver Nanoparticles in water treatment: The heavy metals capture** Venditti I, University of Roma TRE, Italy
15:35-16:05	**Title: Nondestructive and stealth performance evaluations of composites** Jung-Ryul Lee, Korea Advanced Institute of Science and Technology, South Korea

Networking & Refreshment Break: 16:05-16:25 @ Foyer

16:25-16:55 **Title: Application of quantum dots in solar cells and biomedical applications**
Mannix P Balanay, Nazarbayev University, Kazakhstan

16:55-17:25 **Title: Multi-scale modeling and performance driven virtual design of advanced steels and coatings for industrial use**
Lindroos M, VTT Research Center of Finland, Finland

17:25-17:55 **Title: Research on post-Si devices based on Ge and 2D channel materials and TCAD simulation**
Kazuhiko Endo, National Institute of Advanced Industrial Science and Technology, Japan

Networking & Panel Discussion

Advanced Materials 2018 & Nano Engineering 2018

Agenda Day 2 December 11, 2018

Olimpica 1

Keynote Forum

09:00-09:40 **Title: Controlled self-assembly of GeSi nanostructures and its perspective in Si mcirocavities**
Zhenyang Zhong, Fudan University, People's Republic of China

09:40-10:20 **Title: BNT based ceramics with polar nano regions for high power energy storage**
Yan H, Queen Mary University of London, UK

Sessions: Surface Coatings and Tribology | Nano Biotechnology | Electrical, Optical and Magnetic Materials | Nano engineering and Nano Technologies | Additive Manufacturing | Polymer Science and Engineering | Construction Materials

Session Chair: Lev Rapoport, Holon Institute of Technology, Israel

Session Co-Chair: Ying Chieh Lee, National Pingtung University of Science & Technology, Taiwan

10:20-10:40 **Title: Development of nanocellulose for studies of iron speciation in aquatic systems**
Danielle Goveia, Sao Paulo State University, Brazil

Networking & Refreshment Break: 10:40 - 11:00 @ Foyer

11:00-11:30 **Title: Microstructure, nanohardness and chemical composition of thin layers after friction of four FCC metals in lubricated conditions**
Lev Rapoport, Holon Institute of Technology, Israel

11:30-12:00 **Title: Electronic state of sulfide-based solid-state electrolytes applied to all-solid-state lithium ion secondary batteries**
Yoshiyuki Kowada, Hyogo University of Teacher Education, Japan

12:00-12:30 **Title: Piezoelectric MEMS devices: From material aspects to low-power applications**
Michael Schneider, Institute of Sensor and Actuator Systems, Austria

12:30-13:00 **Title: Additive manufactured lightweight porous materials**
Che-Nan Kuo, Asia University, Republic of China

Lunch Break: 13:00-13:45 @ Hotel Restaurant

Poster Presentation @ Foyer 13:45-14:45

Poster Judge: Hauixue Yan, Queen Mary University of London, UK

PP01 **Title: Carbon nanotube growth on TiSiN supports by solid-state dewetting of ultra-thin cobalt films**
Ahmed Andalouci, Université Paris 13, France

PP02 **Title: Enhanced reduction of methylmercury by zero-valent iron particles**
Woojin Lee, Nazarbayev University, Kazakhstan

PP03 **Title: Functionalization of betulinic acid by nanotechnology improved its *in vitro* antiproliferative activity**
Elena-Dorina CORICOVAC, UMFVBT ("Victor Babes" University of Medicine and Pharmacy Timisoara), Romania

PP04 **Title: Mechanical response of 3D printed composite materials**
Kuan-Yu Huang, Asia University, Republic of China

PP05 **Title: Change the surface tension of the electrolyte to evaluate the effect of electropolishing on porous materials with different pore sizes**
Yu-Ping Wang, Asia University, Republic of China

PP06 **Title: Sensing properties of electrochemically deposited polyaniline film doped with poly (3,4-ethylenedioxythiophene)**
Almira Ramanaviciene, Vilnius University, Lithuania

PP07 **Title: Preparation of gold nanostructures/conducting polymers composites for electrochemical and optical sensors**
Benediktas Brasiunas, Vilnius University, Lithuania

PP08 **Title: Application of conducting polymer polypyrrole as electrochromic sensor of pH and CO_2**
Vilma Ratautaite, Vilnius University, Lithuania

PP09 **Title: Electrochemical capacitive behaviour of carbon based and/or NT-$CoFe_2O_4$ nanocomposites**
Aicha Harat, University of Annaba, Algeria

Speaker Session

14:45-15:15 **Title: Energy input effects on microstructure evolution of Ti- 6Al-4V fabricated by electron beam additive manufacturing**
Min-Tsang Tsai, Asia University, Republic of China

15:15-15:45 **Title: Potential for using natural pozzolana for concrete in Kuwait**
Saud Al-Otaibi, Kuwait Institute for Scientific Research, Kuwait

15:45-16:15 **Title: Nanochip-induced epithelial to mesenchymal transition: Impact pf physical microenvironment on cancer metastasis**
Udesh Dhawan, National Chiao Tung University, Taiwan

Networking and Refreshments Break: 16:15-16:35 @ Foyer

Young Research Forum Session

YRF Judge: Haixue Yan, Queen Mary University of London, UK

16:35-16:55 **Title: Growth of graphene by plasma-assisted chemical vapor deposition synthesis, modeling and diagnostics**
Katya Milcheva Pashova, Université Paris 13, France

16:55-17:15 **Title: Developing "SMART" nano by nano system for efficient liposome delivery in vitro**
Bhaskarchand Gautam, Academia Sinica, Taiwan

17:15-17:35 **Title: Design and fabrication of functionalized, chiral poly (3,4-ethylenedioxythiophene) (PEDOT) nanostructures for bio-sensing applications**
Jayakrishnan Aerathupalathu Janardhanan, Academia Sinica, Taiwan

17:35-17:55 **Title: 2D materials assisted membrane crystallization:A new combined theoretical and experimental approach**
Maria Luisa Perrotta, Institute of Membrane Technology, Italy

E-Posters

EPP01 **Title: Biodegradable polymer and nanotechnology in protein delivery**
Vaishnavi Parikh, University of the Sciences, USA

Panel Discussion

Awards and Closing Ceremony

Agenda Day 3 December 12, 2018

Olimpica 1

Networking Meeting & Lunch