

# Scientific Program

## 5<sup>th</sup> International Webinar on Nanotechnology & Nanomaterials

Monday  
November 08, 2021

### Day 1 - November 08, 2021

10:00 - 10:15 Introduction

#### Keynote Presentations

10:15 - 10:45 Multicomponent High-Entropy Cantor alloys  
**Brian Cantor**, University of Oxford, UK

10:45 - 11:15 Tungsten Oxide Films for Electrochromic Windows  
**Chi-Ping Li**, National United University, Taiwan

#### Oral Presentations

11:15 - 11:40 Human stratum corneum lipid-based mimetic model: a tool to study drugs Permeability  
**Tânia Moniz**, Universidade do Porto, Portugal

11:40 - 12:05 Theoretical and experimental study of adsorption properties of tetraalkylphosphonium organobidellites  
**P. Škorna**, Institute of Inorganic chemistry, Slovak Academy of Science, Slovakia

12:05 - 12:30 Spray-flame synthesized  $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$  electrolyte for solid state batteries  
**Md Yusuf Ali**, University of Duisburg-Essen, Germany

12:30 - 12:55 Synthesis of silver nanoparticles using *Asphodelus aestivus* Brot. water extract and biological activities  
**Burcu Sümer Tüzün**, Ege University, Turkey

#### Lunch (12:55 - 13:30)

13:30 - 13:55 Wire-and-arc additive manufacturing of austenitic stainless steels plates and rods: a comparative microstructural and mechanical characterization  
**Lavinia Tonelli**, University of Bologna, Italy

13:55 - 14:25 New Nanoparticle Formulation for Cyclosporin A: *In Vitro* Assessment  
**Mariana Varna**, Université Paris-Saclay, France

14:25 - 14:50 Reliability Design of Mechanical Systems Subjected to Repetitive Stresses  
**Seongwoo Woo**, Ethiopian Technical University, Ethiopia

14:50 - 15:15 In vitro toxicological assessment and hemocompatibility of Squalene based nanoparticles  
**Laloy Julie**, Namur Research Institute for Life Sciences, Belgium

15:15 - 15:40 SERS-encoded Ag nanoparticles derived from diazonium chemistry for Raman imaging  
**Da Li**, Université de Paris, France

15:40 - 16:05 Synthesis and characterization of polylactic acid films doped with magnesium particles and CTAB for biomedical purposes  
**Verónica Luque-Agudo**, University of Extremadura, Spain

#### Keynote Presentations

16:05 - 16:35 Moisture induced electricity generation and applications from nanomaterials  
**Daozhi Shen**, University of Waterloo, Canada

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### Poster Presentations

- 16:35 - 16:50 Membranes from post-consumer poly(ethylene terephthalate)/silk fibroin mixture for filtration  
**Alena Opálková Šišková**, Polymer Institute of Slovak Academy of Sciences, Slovakia
- 16:50 - 17:05 Diclofenac Loaded Electrospun Poly( $\epsilon$ -caprolactone) Mats for Therapeutic Application  
**Anita Eckstein Andicsová**, Polymer Institute of Slovak Academy of Sciences, Slovakia
- 17:05 - 17:20 Preparation of SERS-active functional surfaces based on polydopamine  
**Francesco Galeotti**, Consiglio Nazionale delle Ricerche, Italy
- 17:20 - 17:35 Low-Cost Synthesis of Alumina Nanoparticles and Their Usage for Bisphenol-A Removal from Aqueous Solutions  
**Boubié GUEL**, University Joseph Ki Zerbo, Burkina Faso

End of Day 1

**Tuesday**  
**November 09, 2021**

Day 2 - November 09, 2021

### Keynote Presentation

- 10:10 - 10:40 RGB Multiplexer Channel Using Polycarbonate Polymer Optical Fibers  
**Dror Malka**, Holon Institute of Technology (HIT), Israel
- 10:40 - 11:10 Nano imprinting of 3D cell culture scaffolds for tissue engineering applications  
**Laila M. Montaser**, Menoufia University, Egypt

### Oral Presentations

- 11:10 - 11:35 Electrochemical microtexturing on advanced materials  
**Sandip Kumar**, Aditya Engineering College, India
- 11:35 - 12:00 Determination of sarcosine with a potentiometric all solid-state miniaturized electrode  
**S Fernández-Puig**, Centro de Investigación y Desarrollo Tecnológico en Electroquímica S. C, Mexico
- 12:00 - 12:25 A DNA Nanodevice Simultaneously Activating the EGFR and Integrin for Enhancing Cytoskeletal Activity and Cancer Cell Treatment  
**Mirza Muhammad Faran Ashraf**, The University of Hong Kong, Hong Kong
- 12:25 - 12:50 A Co-Polymerizable Linker for the Covalent Attachment of Fibronectin Makes pHEMA Hydrogels Cell-adhesive  
**Clement Appiah**, University of Bremen, Germany
- 12:50 - 13:15 Polymer-Liposome Hybrid Nanocarriers For Oral Delivery Of Bioactive Molecules  
**Lucia Catucci**, University of Bari, Italy

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Nanomaterials**

**Tuesday**  
**November 09, 2021**

Lunch (13:15 - 13:45)

13:45 - 14:05 Conjugated Porous Polymers: Potential Testbed for Platinum Free Electrocatalysis for Oxygen Reduction Reaction  
**Sujoy Bandyopadhyay**, Indrashil University, India

14:05 - 14:30 Controlling Domain Wall Thermal Stability Switching In Magnetic Nanowires For Storage Memory Nanodevices  
**Mohammed Al Bahri**, A'Sharqiyah University, Oman

14:30 - 14:55 Towards the green synthesis of nano metal oxides  
**Njiomou Djangang C**, University of Yaoundé I, Cameroon

End of Day 2