

Scientific Program

4th International Webinar on Materials Science & Engineering

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(ϵ -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 Kunar , 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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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