

Scientific Program

International Webinar on

Functional Materials and Chemical Engineering

Thursday
November 11, 2021

Day 1 - November 11, 2021

10:00 - 10:10 Introduction

Plenary Talk

10:10 - 10:50 True Design and Characterization of Functional Solid Materials through Electron Trapdistribution Analyses
Bunsho Ohtani, Hokkaido University, Japan

Oral Presentations

10:50 - 11:20 The graphene aerogel supported form stable phase change materials (PCMs) for renewable thermo electric energy harvesting
Chengbin Yu, Seoul National University, Korea

11:20 - 11:50 Organocatalytic transformation of carbon dioxide into heterocycles
Hui Zhou, Dalian University of Technology , China

Lunch (11:50 -12:20)

12:20 - 12:50 Enhancing the Triboelectric Performance by Facile Surface Modification of Silicon Film for Smart Energy Harvesting Applications
Gajula Prasad, Kyung Hee University, Korea

12:50 - 13:20 Towards a sustainable production of polymeric membranes
Teresa Poerio, Institute on Membrane Technology, Italy

13:20 - 13:50 CH₄ and CO₂ conversion by coupling non-thermal plasma and catalysis
Catherine Batiot-Dupeyrat, Université de Poitiers, France

13:50 - 14:20 Metallated bioconjugates as new catalysts and new materials
Srećko I. Kirin, Ruđer Bošković Institute, Croatia

14:20 - 14:50 Development of Liposomal Spherical Nucleic Acid Nanoparticles for Efficient Drug Delivery, Therapeutic Applications and Gene Delivery
Natalia Toncheva-Moncheva, Institute of Polymers, Bulgaria

14:50 - 15:20 Reversible disulfide shell-crosslinked multifunctional micelles as a controlled drug delivery system
Katya Kamenova, Institute of Polymers, Bulgaria

Poster Presentations

15:20 -15 :35 Chlorophyllin preparation sensitizer for photodynamic therapy of tumors
Natalia Plekhova, State Medical University, Russia

15:35 - 15:50 Manufacturing of biologically responsive materials from cellulose fibers
Levente Csóka, ELTE University, Hungary

15:50 - 16:05 New SILP materials based on TiO₂-SiO₂ and MgO-SiO₂ supports as catalysts for hydrosilylation reaction – synthesis, physicochemical characterization and catalysis
Olga Bartlewicz, Adam Mickiewicz University Foundation, Poland

Offline Recorded Video Presentation

16:05 - 16:30 Protection of mono and polyunsaturated fatty acids from grapeseed oil by spray drying and green biopolymers as all material
Diego Mauricio Sánchez Osorno, Universidad de Antioquia - Pascual Bravo, Colombia

End of Day 1

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Friday
November 12, 2021

Day 2 - November 12, 2021

Keynote Presentation

10:30 - 11:10 Introduce Aromatic plants, Essential oil Distillation, and Green compounds for pest control
Mohammadbagher Rezaee, Research Institute of Forest and Rangelands, Iran

Oral Presentations

11:10 - 11:40 Simultaneous oblique deposition of nanocolumnar tungsten thin films with two sources
Valérie Potin, University of Burgundy, France

11:40 - 12:10 A theoretical investigation of the behavior of water on titanium dioxide surface.
Bouzidi Fatima, Hassiba Ben Bouali University of Chlef, Algeria

12:10 - 12:40 Why is a particle's size important in the tuning catalytic performance of the Zeolitic Imidazolate Frameworks?
Maria N. Timofeeva, Novosibirsk State Technical University, Russia

12:40 - 13:10 New Findings for the Zero Waste Technologies; Demodex Folliculorum
Cemil Koyunoğlu, Yalova University, Turkey

Lunch (13:10 -13:30)

13:30 - 14:00 Efficient utilization of biodiesel waste in ready to use green tablet bait formulation as an integrated strategy of safe domiciliary pest control and sustainable waste management
Nusrat Iqbal, Institute of Pesticide and Formulation Technology, India

14:00 - 14:30 Photoredox Catalysis at Copper(II) on Chitosan:Application to Photolent CuAAC
Oumayma Jennah, Cadi Ayyad University, Morocco

14:30 - 15:00 Characterization analysis of natural based bark fibres
Sivasubramanian Palanisamy, Kalasalingam Academy of Research and Education, India

15:00-15:30 A preliminary theoretical investigation of oxidized Rhenium(VII) c complexes
Angyang Yu, Heilongjiang Vocational College of Biology Science and Technology, China

Poster Presentations

15:30 - 15:45 Titanium dioxide nanoparticles fabrication from biowaste lichens (*parmotrema austrosinense*) and exploited its antimicrobial efficacy
Hamad Al-Lohedan, King Saud University, Saudi Arabia

15:45 - 16:00 Catalytic depolymerization of poplar sawdust and isolation of lignin to low molecular weight aromatics using β - Mo_2C
Maitane Maisterra, Universidad Pública de Navarra, Spain

16:00 - 16:15 Reversible disulfide shell-crosslinked multifunctional micelles as a controlled drug delivery system
Katya Kamenova, Institute of Polymers, Bulgaria

16:15 - 16:30 Molecular conjugate based on chlorine e6 with europium as a prospective candidate for radio-/ photodynamic therapy of tumors
Olga Shevchenko, State Medical University, Russia

16:30 - 16:45 Optimization of the perovskite structure for materials based on PZT prepared by sol-gel process
Nadia Senouci Bereksi, Tlemcen University, Algeria

End of Day 2