

5th International Webinar on Materials Science & Engineering

Day 1 - April 04, 2022

10:00 - 10:15

Introduction

Keynote Presentation

10:15 - 10:40

Ultrasonic Spray Deposition Of Tungsten Oxide Films For Electrochromic Windows
Chi-Ping Li, National United University, Taiwan

Oral Presentation

10:40 - 11:00

A Review On Sulphur Dioxide Reduction Via Dry-Based Catalytic Materials For Environmental Sustainability
Sin Yuan Lai, Xiamen University Malaysia, Malaysia

11:00 - 11:20

Superhydrophobic Aluminum Mesh For Highly Efficient Oil/Water Separation
Xinwen Zhang, Shanghai Jiao Tong University, China

11:20 - 11:40

Highly Selective Detection Of Hydrogen Sulfide By Simple Cu-CNTs Nanocomposite
Nahida Musayeva, Institute of Physics, ANAS, Azerbaijan

11:40 - 12:00

Microcellulose as reinforcement: Case of the PBAT biopolyester
Mélanie Dabertrand, Université Clermont Auvergne, France

12:00 - 12:20

Feasibility Study Of A Novel Multi-Cylinder System For Extruding Wide Aluminium Profiles With Low Force
Jiaxin Lv, Imperial College London, UK

12:20 - 12:40

Solid State Intercalation Of 2-(5-Bromo-2-Pyridylazo)-5-(diethylamino)Phenol (BrPADAP) Into Organosmectites: Physicochemical, Electrochemical And Optical Properties
Boubié Guel, University Joseph Ki Zerbo, Burkina Faso

12:40 - 13:00

Sustainable Eco-Design As A Tool To Transform Wood Waste Into New Material
Małgorzata Grotowska, Warsaw University of Life Sciences WULS-SGGW, Poland

Lunch (13:00 - 13:30)

13:30 - 13:50

Optimization Of Chitosan Adhesive Properties – Application To Wood Bonding
Jeanne Silvestre, Université Clermont Auvergne, France

13:50 - 14:10

Potential Use Of Meskine Ball Clays As Raw Materials For Tiles Making (Far-North Cameroon)
Fadil-Djenabou Soureiyatou, University of Maroua, Cameroon

14:10 - 14:30

Quantum-Classical Mechanics: Principles, Applications, And Prospects
Vladimir Valentinovich Egorov, Russian Academy of Sciences, Russia

14:30 - 14:50

Development And Characterization Of Activated Hydrochars From Orange Juice For Supercapacitor Applications
Francesca Alessandro, University of Calabria, Italy

14:50 - 15:10

Mechanical Properties Of Additively Manufactured Hybrid Layered Continuous Carbon Fiber Reinforced Composite
Altuğ Uşun, Karadeniz Technical University, Turkey

15:10 - 15:30

Effect Of Structure Defects On Spectrum Of Electromagnetic Excitations In Coupled Microcavities Array Containing Quantum Dots
Vladimir V. Romyantsev, A.A.Galkin Institute for Physics & Engineering, Ukraine

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Keynote Presentation

15:30 - 15:55 *Multicomponent High-Entropy Cantor Alloys*
Brian Cantor, University of Oxford, Brunel University, UK

Poster Presentation

15:55 - 16:10 *Bayesian Calibration of Confined Concrete Material Model*
Jan Sýkora, Czech Technical University in Prague, Czech Republic

Day 1 Concludes

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DAY 2 - April 05, 2022

Keynote Presentations

10:00 - 10:25 Drug Screening Model Utilizing 3D Cell Culture And Drug Delivery System
Teruki Nii, Kyushu University, Japan

10:25 - 10:50 4th Generation Glucose Sensors Composed Of Trimetallic Nanoporous Composite Materials For Diabetes Management
Gowhar A. Naikoo, Dhofar University, Oman

Poster Presentation

10:50 - 11:05 Silver Black Coatings For Broadband Absorbers And The Aging Behaviors
Yan Hao, Beijing Institute of Technology, China

Oral Presentations

11:05 - 11:25 Hydration Effects And Emerging Materials For Multivalent Batteries
Kwan Woo Nam, Ewha Womans University, Republic of Korea

11:25 - 11:45 Reforming Full Range Commercial Naphtha Over Modified Hierarchical Zeolites
Aniz C Ummer, KFUPM, Saudi Arabia

11:45 - 12:05 Revival Of Smooth Mgo Surface For Fabrication And Characterization Of Ybco Step-Edge-Based Josephson Junctions
Satyendra Prakash Pal, Banaras Hindu University, India

12:05 - 12:25 MWCNTs/Epoxy y Nanocomposite With Magnetic Properties
Nahida Musayeva, Institute of Physics, ANAS, Azerbaijan

12:25 - 12:45 Synthesis And Structural Studies Of CNT/Cu Composites: Future Lightweight Wires
Shivani Dhall, DAV College, India

12:45 - 13:05 Structural And In Situ X-Ray Diffraction Study Of Hydrogenation Of $\text{Ca}_x\text{Mg}_{1-x}\text{Ni}_2$ ($0 \leq x \leq 1$)
Zia Ur Rehman, Hazara University, Pakistan

13:05 - 13:25 Novel Bacteria-Immobilized Cellulose Acetate/Poly(Ethylene Oxide) Nanofibrous Membrane For Wastewater Treatment
Doaa Zamel, Helwan University, Egypt

Lunch (13:25 - 13:55)

13:55 - 14:15 Controlled Release Of Paroxetine From Chitosan/Montmorillonite Composite Films
Funda Altunkaynak, Gazi University, Turkey

14:15 - 14:35 Investigation The Photocatalytic Effect Of Green Synthesized Magnetic Nanocomposite Based On MnFe_2O_4 On Tetracycline Antibiotic Degradation From Aqueous Solutions
Ftemeh Sadat Arghavan, Mashhad University of Medical Sciences, Iran

Poster Presentations

14:35 - 14:50 The methodology of studying the gas-thermal method of coating from UHMWPE in the course of physics specialties of the University
M.M. Nurizinova, East Kazakhstan University, Kazakhstan

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14:50 - 15:05	Simulation of the operation of a propane–air gas-thermal burner for spraying protective coatings based on ultra-high molecular weight polyethylene Moldir Bayandinov , Sarsen Amanzholov East Kazakhstan University, Kazakhstan
15:05 - 15:20	Magnetic Nb-Nanoferrites for Recovery of Pb ⁺² , Fe ⁺³ , Al ⁺³ and Mn ⁺² from Superficial Waters: Preparation, Physicochemical Characterization, metal adsorption proof and Technological Prospection Lida Liliana Arias Parra , Federal University of Minas Gerais, Brazil

Day 2 Concludes