

2<sup>nd</sup> International Conference on

# **MATERIALS SCIENCE & ENGINEERING**

November 08-09, 2023

Dubai, UAE

**Scisynopsis LLC**  
Atlanta, GA 30326  
USA

**Contact us:**

Contact: +1-770-832-7291

Whatsapp: +1-770-762-9823

# Conference Programme

November 08-09, 2023, Mena Plaza Hotel Albarsha, Dubai, UAE

**Day 1, November 08, 2023**

**Meeting Hall: La Rosa Meeting Room**

8.15 - 9.00

**Registrations**

9.00 - 9.30

**Introduction**

## Oral Presentations

Session Chair:

**Jae Young Joo**, Korea Photonics Technology Institute, South Korea

Session Chair:

**Cahit Perkgöz**, Eskisehir Technical University, Turkey

Session Chair:

**Vladimir Mitin**, University at Buffalo, SUNY, USA

**Sessions:** Materials Science and Engineering | Functional Materials | Environmental and Green Materials | Polymer Technology and Plastics | Materials Chemistry | Structural Materials | Composite, Coating and Ceramic Materials | Electronic, Optical and Magnetic Materials | Computational Material Science | Metallurgy | Chemical Engineering | Nanomaterials and Nanotechnology | Advanced Energy Materials | Semiconductors | Polymers & Biopolymers | Nature and Properties of Materials

9.30 - 9.55

**Jose A. Ortiz-Lozano**, Autonomous University of Aguascalientes, Mexico

**Title:** Structural Use of Fiber-Reinforced Self-Compacting Concrete with Recycled Aggregates

9.55 - 10.20

**Jae Young Joo**, Korea Photonics Technology Institute, South Korea

**Title:** Compact Measurement of the Optical Power in High-Power LED Using a Light-Absorbent Thermal Sensor and Optical Filter Application

10.20 - 10.45

**Seyed Hamid Tabatabaei**, Foam Ecosolution Innovation Ltd., Canada

**Title:** Chemical Recycling of Waste Polyurethane Foam Inclusive of Foam Mattress to Recovered (Recycled) Polyol Which We Branded it as Polygreen Polyol for Rigid Foam Production

**Group Photo: 10.45 - 10.55**

**Networking and Refreshments @Beside Meeting Room: 10.55 - 11.30**

11.30 - 11.55

**Sanat Tolendiuly**, Institute of Combustion Problems,  
Kazakhstan

**Title:** Synthesis of YBaCuO Superconducting Composites by Combustion Method

11.55 - 12.20

**Vladimir Mitin**, University at Buffalo, SUNY, USA

**Title:** Infrared Detector for Tunable IR Focal Plane Arrays Controlled by AI

12.20 - 12.45

**Tlek Ketegenov**, Institute of Combustion Problems,  
Kazakhstan

**Title:** Theoretical and Applied Aspects of Mechanochemistry

12.45 - 13.10

**Shaimaa Mohammed Moustafa Rohym**, Ahram Canadian  
University, Egypt

**Title:** Effect of Coffee on Color Stability and Surface Roughness of Newly Introduced  
Single Shade Resin Composite Materials

### **Lunch @ La Mode Restaurant: 13.10 - 14.00**

14.00 - 14.25

**Leonid Chernyak**, University of Central Florida, USA

**Title:** Impact of Radiation and Electron Injection on Minority Carrier Transport in n-  
and p-Type Gallium Oxide

14.25 - 14.50

**Felix Sadyrbaev**, Daugavpils University, Latvia

**Title:** Heat Transfer Regimes in Nonlinear Media

14.50 - 15.15

**Kamunur Kaster**, Institute of Combustion Problems,  
Kazakhstan

**Title:** The Effect of CuO on the Thermal Properties and Burning Characteristics of  
Pyrotechnic Mixtures Containing the AN/MgAl

### **Keynote Presentations**

15.15 - 15.55

**S. Shankar**, National Institute of Technology, India

**Title:** Performance Evaluation of Emulsified Asphalt Treated Reclaimed Asphalt  
Pavement Material in Bases

15.55 - 16.35

**T.D.Gunneswara Rao**, National Institute of Technology, India

**Title:** Mix Design Aspects of Alkali Activated Concrete Using Fly Ash and GGBS as Binders

**Networking and Refreshments @Beside Meeting Room: 16.35 - 17.00**

### Oral Presentations

17.00 - 17.25

**Ruslan Safaev**, Almeteyevsk State Oil Institute, Russia

**Title:** Data-Driven Approach to Predict Methods for the Synthesis of MOFs on the Basis of Sorption Properties

17.25 - 17.50

**Refilwe Jenifer Motsoeri**, University of Johannesburg, South Africa

**Title:** Process Simulation of Carbonitrothermic Synthesis of Titanium Nitride from Ilmenite

17.50 - 18.15

**Cahit Perkgöz**, Eskisehir Technical University, Turkey

**Title:** Exploring the Impact of AI in Nanomaterial Analysis and Optical Waveguide Design

**Day 1 Concludes followed by Awards Ceremony**

**Day 2, November 09, 2023**

**Meeting Hall: La Rosa Meeting Room**

### **Keynote Presentation**

**10.00 - 10.40**

**P. Venkateswara Rao**, National Institute of Technology, India

**Title:** Extraction of Extracellular Polymeric Substance (EPS) from Sludge and Applications

**10.40 - 11.20**

**R. Satish Babu**, National Institute of Technology, India

**Title:** Treatment of Dairy Wastewater with Extracellular Polymeric Substances

### **Networking and Refreshments @ Beside Meeting Room: 11.20 - 11.45**

**11.45 - 12.25**

**Rajaram S. Mane**, Swami Ramanand Teerth Marathwada University, India

**Title:** Self-grown Nanostructures for Energy Storage Applications

### **Oral Presentations**

**Session Chair:**

**Micheline Bejjani**, American University, UAE

**Session Chair:**

**Guang-Ling Song**, Southern University of Science and Technology, China

**Session Chair:**

**Jacob Kleiman**, Integrity Testing Laboratory Inc., Canada

**Sessions:** Materials Science and Engineering | 3D Printing & Additive Manufacturing | Polymer Technology and Plastics | Metals and Mining Materials | Composite, Coating and Ceramic Materials | Metallurgy | Nanomaterials and Nanotechnology | Polymers & Biopolymers | Advanced Energy Materials

**12.25 - 12.50**

**Micheline Bejjani**, American University, UAE

**Title:** From Food Waste to Biodegradable Useful Products

**12.50-13.15**

**Jacob Kleiman**, Integrity Testing Laboratory Inc., Canada

**Title:** Evaluation of New Material's Surface Modification Processes for Lunar Dust Mitigation in Lunar Environment Conditions

### **Lunch @ La Mode Restaurant: 13.15-14.00**

**14.00-14.25**

**Nihan Kosku Perkgöz**, Eskişehir Technical University, Turkey

**Title:** 2D Materials Growth via CVD: Advancing Optoelectronics and Energy Storage with TMDs, Graphene, and MXene



14.25 - 14.50

**Guang-Ling Song**, Southern University of Science and Technology, China

**Title:** Protection of Reinforcing Steel by “Intelligent” Mg in Concrete

### Poster Presentations

14.50-15.05

**Agnieszka Chmielewska**, MaterialsCare LLC, Poland

**Title:** Hybrid Solid-Porous Dental Implant for Enhanced Drug Delivery Fabricated Using Laser Powder Bed Fusion

15.05-15.20

**Sergey Fomenkoa**, Institute of Combustion Problems, Kazakhstan

**Title:** Effect of Mechanical Activation on The Yield of Superconducting Phase of YBaCuO Superconductor Obtained by Combustion Method

15.20 - 15.35

**Bartlomiej Wysocki**, MaterialsCare LLC, Poland

**Title:** Post-Processing of Titanium Dental Implant Fabricated Using Laser Beam Powder Bed Fusion (PBF-LB)

15.35 - 15.50

**Miguel Minhalma**, Instituto Superior de Engenharia de Lisboa, Portugal

**Title:** Synthesis of MOF/Silica Cellulose Acetate Membranes and Characterization: Removal of Uremic Toxins – Urea and p-Cresil

15.50 - 16.05

**Abdullah Saad Alsubaie**, Taif University, Saudi Arabia

**Title:** Characterization and Optical Studies of Hydroxyethyl Cellulose-Copper Oxide Nanocomposites

16.05 - 16.20

**Marina Knyazeva**, IPCE RAS - Institute of Physical Chemistry and Electrochemistry Russian Academy of Sciences, Russia

**Title:** MOF-Based Adsorption Systems for Greenhouse Gas Capture: CO<sub>2</sub> and CH<sub>4</sub>

16.20 - 16.35

**Abuhelo Fadi**, University of Science and Technology Houari Boumedienne, Algeria

**Title:** Characterization of Mechanical Anisotropy of Aluminum Alloy by Measurement of The Coefficient of Lankford

**Networking and Refreshments @Beside Meeting Room: 16.35 - 17.00**

**Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony**

2<sup>nd</sup> International Conference on

# Materials Science & Engineering

November 08-09, 2023 | Dubai, UAE



Note:

*Bookmark The Date*

3<sup>rd</sup> International Conference on  
**Materials Science &  
Engineering**

September 26-27, 2024 | Amsterdam, Netherlands



Contact us:

Program Manager: Elena Gilbert

Email: [materialsscience@synopsism meetings.org](mailto:materialsscience@synopsism meetings.org)

WhatsApp: +1-770-762-9823

Phone: +1-770-832-7291