

3rd Global Conference on

MATERIALS SCIENCE & ENGINEERING



April 24, 25 & 26, 2025

Venue:
**Double Tree By Hilton Al Jadaf,
Dubai, UAE**

Theme:
Outlining The Forefront
Research In The Field of
Materials Science and
Nanotechnology

Introduction & Opening Ceremony

Name	Affiliation	Title
MICHELINE BEJJANI	<i>American University in Dubai, UAE</i>	Sustainable bioplastics and nanogenerators
Jun Ding	<i>National University of Singapore</i>	LiCl@HPEA for Water Harvesting from Atmospheric Humidity
Yuanbin Zhang	<i>Shandong Jianzhu University, China</i>	The neural network model of weld bead dimensions for arc additive manufacturing
Tongguang Zhai	<i>Shandong Jianzhu University, China</i>	Life Prediction of Fatigue Crack Initiation at Pre-fractured Particles in AA2024-T351 Al alloys using a quantitative 3D Microstructure-based Model
Mostafa Mehrabi	<i>University of Detroit Mercy, USA</i>	A Systematic Approach to Parametric Study of Powder Metallurgy By Design of Experiment
Prof. Thomas J. Webster	<i>Hebei University of Technology, China</i>	Eliminating Infection in 30,000 Humans to Date: The Impact of Nanomedicine
Prof. Laure Le Corroller	<i>Dr. & Master Sha Tao Academy, Canada</i>	Tao Calligraphy Field as a Powerful Integrative Medicine Technology

Refreshment & Coffee Break

Slot Available

Meltem Yanilmaz	<i>Istanbul Technical University, Turkiye</i>	Synthesis of nanostructured carbons for rechargeable batteries
Prof. Masato SONE	<i>Institute of Science Tokyo, Japan</i>	Material Control & Evaluation Methods of Multi-layered Ti/Au Micro-sized Components by Electroplating Toward Ultra High-Sensitive MEMS Accelerometer
Dr. Abdullah Riaz	<i>University of Rostock, Germany</i>	Fabrication of smart biomaterials for bone tissue engineering
Win Long Chia	<i>Fu Jen Catholic University, Taiwan</i>	A lifetime on synthesis of nitrogen-containing liquid crystals in Taiwan
Meltem Yanilmaz	<i>Istanbul Technical University, Turkiye</i>	Synthesis of solid electrolytes for rechargeable batteries

Dr. Arnaud Caron	<i>Herbert Gleiter International Institute ,China</i>	On the Shear-induced Flow and Transfer of Silicon Oxide at the Interface Between Silicon Crystals
Dr. Marco Anni	<i>University of Salento, Italy</i>	Environmental Effects on the Amplified Spontaneous Emission of Lead Halide Perovskites Nanocrystals Films and Possible Applications to Optical Gas Sensors
Prof. MARIA VITTORIA DIAMANTI	<i>Department of Chemistry, Materials and Chemical Engineering,Italy</i>	Anodic TiO₂ membranes for Water Purification in Solar Evaporators

Refreshment & Coffee Break

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Dr. Maryam Sadat Kiai	<i>Istanbul Technical University, Turkey</i>	Mos₂@cos₂@gc as a Novel Separator with Stable Cyclability for Practical Li-s Batteries
Dr. OMOLOLA ESTHER FAYEMI	<i>North-West University, South Africa</i>	Impedimetric Pyrene Determination at Fmwcnts/Cuo-Zno Modified Glassy Carbon Electrode
Dr. Seongwoo Woo	<i>Ethiopian Technical University, Ethiopia</i>	Improving the Fatigue Design of Mechanical Systems Such as Refrigerator
Ashanendu Mandal	<i>University of Calcutta, India</i>	Potential Application of Innovative Solid Waste Materials or Adsorptive Removal of Toxic Phenol from Wastewater and Generating Circular Economy
Dr. Vladimír Zelenák	<i>P.J. Safarik University, Košice, Slovakia</i>	Advanced Nanoporous Silica Platforms for Drug Delivery

Refreshment & Coffee Break

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Benigno Rodriguez Diaz	<i>Universidad de la República, Uruguay</i>	A New Generation of Antennas for Climate Change Mitigation
Dr. Asma Obaid	<i>Jazan University, Kingdom of Saudi Arabia</i>	Colorimetric Sensors for Recognition of Chiral Drugs Using Gold Nanoparticles
Prof. Mohammad Owais	<i>Aligarh Muslim University, India</i>	Selective Delivery Employing Targeted Multifunctional Nanoparticles: Potential as a Possible Prophylactic Tool in Management Of Tumors and Infectious Diseases
Dr. Julietta V. Rau	<i>Institute of the Structure of Matter, Italy</i>	Advanced Functional Materials for Antimicrobial Biomedical Implants

Dr. Maqsuma Banoo	<i>Kyoto University, Japan</i>	Bi₄TaO₈Cl as a New Class of Layered Perovskite Oxyhalide Materials for Piezopotential Driven Efficient Seawater Splitting
Dr. Mohammad Sohedul Islam	<i>Hajee Mohammad Danesh Science and Technology University (Hstu), Bangladesh</i>	Selenium Nanoparticles (Senps) Enhance Salt Tolerance, and Improve Yield and Quality in Salt-stressed Wheat (Triticum Aestivum L.) By Modulating Plant Growth, Physiological Functions, Ionic Balance, and Yield Traits
Prof. Mahdi Hosseini	<i>Nanjing Forestry University, China</i>	A Review of the Impact Performance of Carbon Fibre-reinforced Composites with Carbon Nanotubes
Dr. Navid ASIfattahi	<i>Czech Technical University in Prague, Czech Republic</i>	Improvement of the Performance of Sodium-ion Battery Utilizing a MoS₂@CoS₂@GC Anode Through DFT Calculations
Prof. Kokila A Parmar	<i>Hemchandracharya North Gujarat University, India</i>	Eco-friendly Green Synthesis of Gold Nanoparticles via Bauhinia Variegata Bark Extract: PVP Encapsulation and Their Enhanced Antibacterial and Anticancer Properties

Refreshment & Coffee Break

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Jamshid Hussain	<i>Yuan Ze University, Taiwan</i>	Catalytic and Adsorptive Properties of Ceria-BTC Microrods for Methanol Transformation
Dr B V Rajendra	<i>Manipal Institute of Technology, India</i>	Effect of Irradiation on the Structural, Optical and Electrical Properties Spray Coated Zn_{0.97}Fe_{0.30} Films
Sivasambu Bohm	<i>Zhejiang Materials Hanano R&D, China</i>	Graphene industrial application towards decarbonization
Carlos Alberto Guerrero Fajardo	<i>Universidad Nacional de Colombia, Colombia</i>	Graphene Oxide from metcoke dust using modified Hummer's oxidation and LPE Techniques
Ang-yang Yu	<i>East China Jiaotong University, China</i>	Alloying effects on segregation and mechanical properties of Ti/TiO₂ interface
L. Chernyak	<i>University of Central Florida, USA</i>	Impact of radiation and electron injection on minority carrier transport in n- and p-type Gallium Oxide

Luiza Gabunia	<i>Tbilisi State Medical University, Georgia</i>	Polypharmacy, rational antibiotic therapy, ways for prevention complications of antibiotic-therapy and resistance to antibiotics
Prof. Xuanhui Qu	<i>University of Science and Technology Beijing, China</i>	High-performance Friction Materials for Brake of High-speed Railway Trains
Prof. Peng Zhang	<i>University of Science and Technology Beijing, China</i>	High-performance Friction Materials for Brake of High-speed Railway Trains
Mingli Qin	<i>University of Science and Technology Beijing, China.</i>	The quantitative investigation of the lattice oxygen and grain edge oxygen on the thermal conductivity of aluminum nitride ceramics

Refreshment & Coffee Break

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Lin Zhang	<i>University of Science and Technology Beijing, China.</i>	Ultrafine-grained refractory metal produced via pressureless two-step sintering
Lin Zhang	<i>University of Science and Technology Beijing, China.</i>	HfN doped W-Re alloys fabricated by an in-situ doping strategy
Peng Zhang	<i>University of Science and Technology Beijing, China.</i>	The structure control of precipitates in heat-resistance steel and its mechanical properties
Raman Singh	<i>Monash University (Melbourne), Australia</i>	Success in Developing CVD Graphene Coating on Mild Steel: A Disruptive Approach to Remarkable/Durable Corrosion Resistance.
Osman Adiguzel	<i>Firat University, Turkey</i>	Shape Memory Phenomena and Crystallographic Aspects of Reversibility in Shape Memory Alloys
Paulo Cesar Morais	<i>Catholic University of Brasilia, Brazil</i>	Modulating Portland-based cement with nanosilica
Prof. Brij Bhushan Tewari	<i>University of Guyana, Guyana</i>	Implication of Metal Complexes in Biology and Medicine: The System Aluminum (III) / Chromium (III) / Iron (III) – Homoserine
Vladislav Bogdanov	<i>National Transport University, Ukraine</i>	About plane problem of non-stationary interaction of hard body in bases with welded joint in elastic-plastic formulation

Nana Gorgaslidze

*Tbilisi State Medical
University, Georgia*

**Polypharmacy, rational antibiotic therapy,
ways for prevention complications of
antibiotic-therapy and resistance to
antibiotics**

Levan Ratiani

*Tbilisi State Medical
University, Georgia*

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ways for prevention complications of
antibiotic-therapy and resistance to
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Giorgi Varazi

*Tbilisi State Medical
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*****Slot Available*****

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