



11th International Conference on

MATERIALS SCIENCE AND ENGINEERING

November 20-21, 2024 | Dubai, UAE



11th International Conference on

	Day-01 November 20, 2024
	Meeting Hall: La Rosa Meeting Room
08:00 - 08:45	Registrations
08:45 - 09:00	Opening Ceremony and Introduction
	Keynote Presentations
	Tribology: Conceptualization of Micro-Abrasive Wear
09:00 - 09:40	Ronaldo Câmara Cozza, CEETEPS – State Center of Technological Education "Paula Souza", Brazil
09:40 - 10:20	Integrated Microbolometer for Remote Human Vital Signs Detection
	Janez Trontelj, University of Ljubljana, Slovenia
10:20 - 11:00	Scientific Research Institute of Semiconductor Physics and Microelectronics at the Forefront of Semiconductor Research in Uzbekistan
	Utamuradova Sharifa Bekmuradovna, Director Research Institute of Semiconductor Physics and Microelectronics, Uzbekistan
	Networking & Refreshments 11:00 - 11:20 @ La Rosa Foyer
11:20 - 12:00	Structure and Properties of Transparent Conducting Layers of Metal Oxide and Sensors Based on Them
	Muzafarova Sultanpasha Anvarovna, Laboratory of the Research Institute of Semiconductor Physics and Microelectronics, Uzbekistan
	Oral Presentations
Session Chair:	Ronaldo Câmara Cozza, CEETEPS – State Center of Technological Education "Paula Souza", Brazil
Session Chair:	Vít Černý, Brno University of Technology, Czech Republic
Session Chair:	Mavlyanov Abdulaziz Shavkatovich, Laboratory Research Institute of Semiconductor Physics and Microelectronics, Uzbekistan
Sessions:	Material Science Nano Technology and Bio-Nano technology Electronic, Optical and Magnetic Materials Composite, Coating and Ceramic Materials 3D Printing and Addictive Manufacturing Tribology and Surface Engineering Engineering
12:00 - 12:25	Nanofluid-Enhanced Heat Transfer in Multi-Stage Flash Desalination using Hematite Nanoparticles
	Nasser Ibrahim Zouli, Jazan University, Saudi Arabia
12:25 - 12:50	Research on Deformation Behavior of Fresh Three-Dimensional Printing Mortar Based on FE Simulation
	Kazutaka Shirai, Hokkaido University, Japan
	Group Photo: 12:50 - 13:00
	Lunch: 13:00 - 14:00 @ La Mode Restaurant
	Editori. 19.00 @ Ed Mode Residerani
14.00 - 14.25	Why Sustainability & Circularity on Materials is Critical – Industry Perspective
14:00 - 14:25	Why Sustainability & Circularity on Materials is Critical – Industry Perspective Pallavi Iyer, Schneider Electric, India
14:00 - 14:25	Why Sustainability & Circularity on Materials is Critical – Industry Perspective

11th International Conference on

14:50 - 15:15	Nanophotonic, MoS ₂ Nanostructures Potential Applications as Light Emitting Diodes (LEDs)
	Areeba Siddiqui, United Arab Emirates University, Al Ain, UAE
15:15 - 15:40	Sulfur- Manganese-Silicon Cell and XRD Analysis of Si <mn></mn>
	Mavlyanov Abdulaziz Shavkatovich, Laboratory Research Institute of Semiconductor Physics and Microelectronics, Uzbekistan
15:40 - 16:05	A Study on Poly Styrene-Divinyl Benzene Encapsulated Cu-Ni Bimetallic Nano- Materials for Removal of Lead, Copper and Nickel from Waste Water & it's Anti- Bacterial Efficiency
	Emily Varghese, United Arab Emirates University, Al Ain, UAE
	Networking & Refreshments: 16:05 - 16:30 @ La Rosa Foyer
	Poster Presentations
Poster Judge	Ronaldo Câmara Cozza, CEETEPS – State Center of Technological Education "Paula Souza", Brazil
PPT - 001	Development of a New Energy-Intensive Composition Vanadium Electrolyte and Investigation Reversible Charge Transfer Mechanisms for use High-Efficiency Energy Storage Devices
	Elmira Aimbetova and Indira Aimbetova, Akhmet Yassawi University, Kazakhstan
PPT - 002	Study of the Influence of Hydration on the Percolation Threshold of Electrically Conductive Silicate Composites
	Vít Cerný, Brno University of Technology, Czech Republic
PPT - 003	The Impact of various Portland-Composite Cements on the Properties of Autoclaved Aerated Concrete
	Lenka Mészárosová, Brno University of Technology, Czech Republic
PPT - 004	Innovative Utilization of Unconventional Raw Materials in the Production of Autoclaved Aerated Concrete
	Jindričh Meličhar, Brno University of Technology, Czech Republic
	Property Improvements of 3D-Printed Products
PPT - 005	Aliaksandr Ilyushchanka, State Scientific Institution "O.V. Roman Powder Metallurgy Institute", Belarus
PPT - 006	Biodegradable Implant Materials Based on Zinc-Doped Magnesium Powder
	Vadzim Savich, State Scientific Institution "O.V. Roman Powder Metallurgy Institute", Belarus
	Day-1 Concludes followed by Award Certifications

11th International Conference on

	Day 2 Navember 21 2024
_	Day 2 - November 21, 2024
	Meeting Hall: La Rosa Meeting Room
	Keynote Presentations
09:40 - 10:20	Low-Resistance Membrane vs High-Resistance Membrane Performance Utilizing Electrodialysis—Evaporator Hybrid System in Treating Reject Brine from Kuwait Desalination Plants
	Bader Shafaqa Al-Anzi, Kuwait University, Kuwait
	Networking & Refreshments: 10:20 - 10:40 @ La Rosa Foyer
10:40 - 11:20	From Trash to Treasure: Banana Peel derived-Carbon Quantum Dots for Sensing of Cr (VI) and Ascorbic Acid
	Aayushi, Virginia Tech India Center for Advanced Research and Innovation, India
11:20 - 12:00	Influence of Rear-Earth Elements on Generation Characteristics of Silicon MOS - Structures
	Daliev Khozhakbar Sultanovich, Director "MPEI" National Research University, Uzbekistan
	Oral Presentations
Session Chair	Ronaldo Câmara Cozza, CEETEPS – State Center of Technological Education "Paula Souza", Brazil
Session Chair	Bader Shafaqa Al-Anzi, Kuwait University, Kuwait
Sessions:	Material Science Nano Technology and Bio-Nano technology Electronic, Optical and Magnetic Materials Composite, Coating and Ceramic Materials 3D Printing and Addictive Manufacturing Tribology and Surface Engineering Engineering
12:00 - 12:25	Photosensitive Au - nCdS - nSi - pCdTe - Au Heterostructure on Silicon Substrate
	Muzafarova Sultanpasha Anvarovna, Laboratory of the Research Institute of Semiconductor Physics and Microelectronics, Uzbekistan
12:25 - 12:50	Integrated Microbolometer for THz Sensors
	Andrej Švigelj, University of Ljubljana, Slovenia
	Lunch: 12.50 - 14:00 @ La Mode Restaurant
14:00 - 14:25	Application of Bayesian Networks for Optimization in Problems of Materials Science and Engineering
	Assel Abdildayeva, Al-Farabi Kazakh National University, Kazakhstan
14:25 - 14:50	Surface Functionalized Ceramic Membrane using Super Hydrophilic Coating to Enhance of Oil in Water Separation
14:25 - 14:50	
	Enhance of Oil in Water Separation

11th International Conference on

15:15 - 15:40	Development of a System for Monitoring the Properties of Materials using IoT Devices
	Ali Duisen, Almaty Polytechnic College, Kazakhstan
15:40 - 16:05	Application of Bayesian Networks for Optimization in Problems of Materials Science and Engineering
	Akhmetova Ardak, Al-Farabi Kazakh National University, Kazakhstan
	Networking & Refreshments: 16:05 - 16:30 @ La Rosa Foyer
	Video Presentations
VP-01	Connect to the Structural Origin of the Change in Ductility of Zr-Based Metallic Glasses Using 4-dimensional Scanning Transmission Electron Microscopy
	Soohyun Im, SUNY Buffalo, USA
VP-02	Less is More: The Impact of Minimally Invasive Posterior Restorations
	Yosra Gassara, University of Monastir, Tunisia
VP-03	Innovations in Sensors: Detecting Heavy Metal Ions in Water and the Emergence of IoT Technologies for Water Resources Management
	Monika, CSIR-Central Scientific Instruments Organisation(CSIO), India
VP-04	Pioneering Cadmium Analysis: Pt-Citrate/Au Electrodes Offer Exceptional Sensitivity
	Babankumar, CSIR-Central Scientific Instruments Organisation(CSIO), India
D	Pay-2 Concludes followed by Award Certifications and Vote of Thanks



13th International Conference on

Materials Science and Engineering

October 27-28, 2025 | Singapore City, Singapore

