Theme:

Outlining the forefront research in the field of materials science and nanotechnology.

SCIENTIFInk

2nd Global Conference on

Materials Science & Engineering

MAY 30-31
2024

DUBAI
UAE

Materials World 2024

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SCIENTIFIC AGENDA

MAY 30-31, 2024

Name	Affiliation	Title
Introduction & Open Ceremony		
Speaker Presentations		
Seongwoo Woo	*Ethiopian Technical University, Ethiopia*	Improving the Fatigue Design of Mechanical Systems such as Refrigerator
Z Kovziridze	*Georgian Technical University Georgia*	FAILURE STRESS ENERGY FORMULA
Raul B. Rebak	*GE Vernova Research USA*	Using Advanced Fuel Materials to Retrofit Current Light Water Reactors
Raman Singh	*Monash University, Australia*	Innovative Surface Modification for Enabling CVD Graphene Coating on Steels for Remarkable Corrosion Resistance
K. U. Neumann	*SRH University of Applied Sciences, Germany*	Martensitic Domain Formation in the Ferromagnetic Shape Memory Material Ni2MnGa
Osman Adiguzel	*Firat University, Turkey*	Shape Reversibility and Fundamental Characterization of Shape Memory Alloys
David Sheehan	*Khalifa University, Ubu Dhabi, UAE*	Nanoparticles as novel nucleation agents in protein crystallization: Success with a panel of unrelated proteins
Refreshment and Coffee Break		
Speaker Presentations Continues...		
Carlos Guerrero-Fajardo	*Universidad Nacional de Colombia*	sdComparison of performance in obtaining graphene oxide in three particle sizes using the Liquid Phase Exfoliation (LPE) method with high-rank Colombian coal

Pitamber Mahanandia	*National Institute of Technology, Rourkela, Odisha, INDIA*	**Investigation of mobility of graphene based field-effect transistor using ferroelectric gate**
UTHAYAKUMAR G S	*St.Joseph's Institute of Technology,Chennai, India*	**Artificial intelligence, IoT, and growing semiconductor technologies**
Lev Rapoport	*Holon Institute of Technology, Israel*	**The effect of the microstructure on the Friction and Wear Properties of Some FCC Metals under Lubricated Conditions**
Carolina Fonseca de Farias	*Federal University of Juiz de Fora, Brazil*	**The high-performance mortar with incorporation of marble waste and different additives**
Urvashi Gunputh	*University of Derby, United Kingdom*	**Laser-based material Science behind Powder Based Additive Manufacturing for Aerospace and Healthcare Industry**
Rodolfo Gabriel Figueroa Saavea	*Universidad de La Frontera, Chile*	**A New Tool for Cancer Theragnosis**
Karima BELAKROUM	*University of El Oued, Algeria*	**Structural and magnetic properties evolution of Cu2xCr2xZr2-2xSe4 for 0.500≤ x≤ 0.650**
Hansang Cho	*Sungkyunkwan University, Republic of Korea*	**Astrocytic Scar Restricting Glioblastoma Spreading in Glioblastoma-Microglia Assembloid**
khaled Shawakfeh	*Jordan University of Science and Technology, Jordan*	**Encapsulation of Digitonin-Graphene Oxide, Digitonin-Graphene-Iron Oxide Composite into Cyclodextrins**
Ilham El-Monier	*Cairo University, Egypt*	**Doxorubicin and RITA loaded pH-responsive Dextran nanoparticles exhibiting inhibitory effects in synergism against cancer cells**
Pier Paolo Pompa	*Istituto Italiano di Tecnologia, Genova, Italy*	**Point-of-care colorimetric nanobiosensors: health, safety, food, environment**
Bhawana Jain	*Siddhachalam Laboratory, Raipur (C.G.) INDIA*	**Antibacterial and photocatalytic degradation via ZnO-□-cyclodextrin nanocomposite**

Refreshment and Coffee Break		
Umesh Yadava	*Deen Dayal Upadhyaya Gorakhpur University, India*	**Solute Binding Proteins as Smart Biomolecules: Structural and Functional Characterizations**
Abdelhak Maghchiche	*University Batna 2, Algeria*	**Nano composite hydrogels for biomedical applications from palm date seeds**
Khatib Zada Farhan	*King Abdulaziz University, Saudi Arabia*	**Influence of steel, polypropylene and glass fiber reinforcement on the high temperature resistance of alkali activated composites**
Haroldo A Ponte	*Federal University of Paraná, Brazil*	**Surface application of yttrium oxide nanoparticles as a protective method against high temperature oxidation to increase material's lifespan**
V A Krylov	*Institute of the Chemistry of High Purity Substances of the Russian Academy of Sciences, Russia*	**Gas chromatographic and gas chromatographic-mass spectrometric analysis of high purity volatile compounds for electronics and fiber optics**
George Venedictovich Filatov	*Ukrainian State University of Chemical Technology, Ukraine*	**The problem of durability of Structures under their Hydrogenation**
Ang-yang Yu	*Harbin Engineering University, China*	**Numerical simulation of seismic wave field in the two-phase viscoelastic EDA media**
Eugenia Pechkova	*University of Genova, Italy*	**Protein Langmuir-Blodgett (LB) nanofilms: characterization and applications**
Santanu Ghosh	*Metal-insulator nanocomposite films for Field emission, Magnetic storage and LSPR for electronics and fiber optics*	**IIT DELHI, New Delhi-110016, India**
Thomas J Webster	*Interstellar Therapeutics, USA*	**The BandAId: Human Data of Artificial Intelligence (AI) for Improved Biomaterial Design and Use**
Refreshment and Coffee Break		

Prof. Brij Bhushan Tewari	*University of Guyana, Guyana*	**An Alternate Productive Solution To The Disposal Of Carbon Dust Obtained From Industries**
Priya V	*Visvesvaraya Institute of Technology, India*	**An Alternate Productive Solution To The Disposal Of Carbon Dust Obtained From Industries**
Vladimir G Plekhanov	*Fonoriton Science Lab. Estonia*	**Isotope-based New Materials**
Dr Nuzhat Ahsan	*Quant Lase Lab LLC, Abu Dhabi, UAE*	**Advancements in QCM-Based Biosensors: Integrating Biomaterials and Polymeric Coatings for Enhanced Disease Biomarker Detection**
Dr Reshmi Raj	*Quant Lase Lab LLC, Abu Dhabi, UAE*	**Bridging Strength and Sensitivity: Biomaterial Innovation in Abdominal Hernia Repair with Extracellular Matrix Hydrogel Coated Polypropylene Mesh**
MIKHAIL BELKIN	*Russian Technological University, Moscow*	**Jamming unauthorized radio channels with ultrafast response time**
Refreshment and Coffee Break		
Eugene Stephane Mananga	*The City University of New York, USA*	**NWChemEx Science Challenge Calculations to Investigate the dehydration of 2- propanol reaction**
Harrison CorrÃªa	*Universidade Federal do Paraná, Brazil*	**Nanopolymers - the new frontier for material development**
Jun ZOU	*The Chinese University of Hong Kong, Hong Kong*	**Direct sampling methods for nonlinear ill-posed inverse problems**
WENBO PENG	*Xi'an Jiaotong University, China*	**Piezo-Phototronic Effect in Multi-Layer Structured Optoelectronic: Bilateral Piezoelectric Charge Modulation**
Emmanuel Ifeanyi Ugwu	*Nigerian Army University*	**Synthesis and the study of optical and solid state properties of nickel sulphide doped with aluminum**

Nina Ivanova	*Insitute of Dermatology and Venereology of Academy of National Medical Science of Ukraine, Ukraine*	**The Treatment Alzheimer's Disease by the Lipochrom**
Stoyan Sarg Sargoytchev	*Institute of Space, Matter, and Energy Fields, Bulgaria*	**Atlas of Atomic Nuclear Structures - a major contribution of the BSM - Supergravitation Unified Theory**
Omolola Esther Fayemi	*West University, Mafikeng, South Africa*	**Electrochemical detection of dopamine using green and chemical synthesized CuO/PANI nanocomposite-modified electrode**
Benrezkallah Djamila	*Djillali Liabes University, Algeria*	**Molecular dynamics simulations of unfolding of a thermostable protein: Aeropyrum pernix L7Ae**
Refreshment and Coffee Break		
Roman Perez	*Universitat Internacional de Catalunya, Spain*	**fabrication of functional blood vessels in vitro for tissue replacement and drug screening**
Mami Iwasaki	*University of Toyama, Japan*	**Metal Complexes in Biology and Medicine: The System Cadmium(II) / Iron(II) / Zinc(II) – α- Aminobutenoic Acid**
Sharafat Ali	*Linnaeus University, Sweden*	**The Role of Glass Materials in a Sustainable Energy Future**
Kenji Uchino	*The Penn State Univ., University Park, PA 16802, USA*	**Misconceptions in Piezoelectric Energy Harvesting System Development**
Fakhraddin Pasha Abasov	*Azerbaijan State Marine Academy, Azerbaijan*	**Effect of gamma radiation on the amount of hydrogen in thin films on silicon for solar cells**
Gregory M. Odegard	*Michigan Technological University, USA*	**Process Modelling of Composites using a Multiscale Framework**
Ranjit Ray	*Saint Louis University, Missouri*	**Hepatitis C Virus Vaccine Candidate Using mRNA-LNP Platform**
Refreshment and Coffee Break		

R. Sivarethinamohan	*Imperial College London*	**Graphene industrial application towards decarbonization**
Shaolin Hu	*Guangdong University of Petrochemical Technology, China*	**Outlier-tolerant Learning for Statistical Features from Sampled Signals**
Philippe Legros	*University of Bordeaux, France*	**CaCO3 from Oyster Shell for Potential Application in Bone Tissue Engineering**
Fouzia Achchaq	*University of Bordeaux, France*	**Carbon nanotubes implementation in lead acid batteries industrial production**
Siarhei Zhdanok	*ART MONBAT, Bulgaria*	**Carbon nanotubes implementation in lead acid batteries industrial production**
Yan Song	*Chinese Academy of Sciences, China*	**Preparation and Application of Pitch-based Functional Carbon Materials**
Hamid Mehrabi	*University of Sunderland, UK*	**Comparative analysis of additively manufactured primary, recycled and toughened polylactic acid**
Zhongwei Guan	*Technology Innovation Institute, Abu Dhabi, UAE*	**Advanced Materials Research Centre of Technology Innovation Institute Abu Dhabi, UAE**
Uzma Azeem Awan	*National University of Medical Sciences (NUMS), Rawalpindi, Pakistan*	**Gold Nanoparticle Mediated Optical Control Efficient Gene Knock Down in Hepatocellular Carcinoma**
Muhammad Naeem	*National University of Medical Sciences, Rawalpindi, Punjab, Pakistan*	**Preparation and Physicochemical Characterization of NanoCSA for Ulcerative Colitis Therapy**
Sutapa Ghosh	*CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India*	**Harnessing the electro-activity of Graphene based materials for Neuritogenesis and Energy storage**

Fatma SAAD SAOUD	*University of Mhamed El Bachir El Ibrahimi, Bordj Bou Arreridj, ALGERIA*	**Study of structural, electronic and optical properties for carbon nanotubes using DFT theory**
Carlos Alberto Rios Reyes	*Universidad Industrial de Santander, Colombia*	**Discovering the Zeolitic Potential of Natural Clinker: Redefining Coal By-Product Recycling for Sustainable Innovation**
Na Yan	*Northwestern Polytechnical University, China*	**First-principles assisted the design of high entropy thermoelectric materials based on half-heusler alloys**
Xiangyan Zhu	*Shanghai Jiao Tong University, China*	**Investigating zirconium flows and stocks in China: A dynamic material flow analysis**
Stefania Sabella	*Italian Institute of Technology, Genova, Italy*	**Human relevant cellular, analytical and decisional tools to predict the risk of novel substances (nanofoods, occupational contaminants) and their implications to streamline the regulatory classification of emerging toxicants**
Nana Gorgaslidze	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**
"Luiza Gabunia "	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**
Levan Ratiani	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**
Nino Pruidze-Lipar-teliani	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**
Gvantsa Janigashvili	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**
Giorgi Varazi	*Tbilisi State Medical University, Tbilisi, Georgia*	**Modern pharmacy, pharmacology, risks and challenges**

You Qiang	*University of Idaho, USA*	**Nano-Watermelon: Synthesis, Nanostructures, Nanomagnetism and Applications**
NINI ROSE MATHEWS	*Instituto de Energias Renovables -UNAM, México*	**Cu-Sb chalcogenide thin films by electrodeposition and the photoelectrochemical hydrogen evolution**
Ghulam Rasool	*Beijing University of Technology, China*	**"Rheology of Phase Change Materials and their Applications in Energy Storage**
MIKHAIL BELKIN	*Russian Technological University, Moscow*	**Jamming unauthorized radio channels with ultrafast response time**
Vladimir Levchenko	*International Joint Institute of Advanced, China*	**Effect of Artificial Intelligence on Obtaining Coatings and Materials with Specified Properties**
V A Krylov	*Institute of the Chemistry of High Purity Substances of the Russian Academy of Sciences, Russia*	**Gas chromatographic and gas chromatographic-mass spectrometric analysis of high purity volatile compounds for electronics and fiber optics**
George Venedic-tovich Filatov	*Ukrainian State University of Chemical Technology, Ukraine*	**The problem of durability of Structures under their Hydrogenation**
Ang-yang Yu	*Harbin Engineering University, China*	**Harbin Engineering University, China**
Eugenia Pechkova	*University of Genova, Italy*	**Protein Langmuir-Blodgett (LB) nanofilms: characterization and applications**
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Ranjit Ray	*Saint Louis University, Missouri*	**Hepatitis C Virus Vaccine Candidate Using mRNA-LNP Platform**
R. Sivarethinamohan	*Imperial College London*	**Graphene industrial application towards decarbonization**

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Dr Reshmi Raj	*Quant Lase Lab LLC, Abu Dhabi, UAE*	**Bridging Strength and Sensitivity: Biomaterial Innovation in Abdominal Hernia Repair with Extracellular Matrix Hydrogel Coated Polypropylene Mesh**
Eugene Stephane Mananga	*The City University of New York, USA*	**NWChemEx Science Challenge Calculations to Investigate the dehydration of 2- propanol reaction**
Prof Leelakrishna Reddy	*University of Johannesburg, South Africa*	**Exploring the Magnetic and Optical Properties of Dilute Magnetic Semiconductors: Doping and Synthesis Perspectives in Zinc Oxide Materials**
***** End of the Conference *****		

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