



Theme:

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

SCIENTIFink

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Materials Science & Engineering

MAY 30-31 | **DUBAI**
2024 | **UAE**

Materials World 2024

<https://materialsscience.scientifink.com/>

SCIENTIFIC AGENDA

MAY 30-31, 2024

Name	Affiliation	Title
Introduction & Open Ceremony		
Speaker Presentations		
Seongwoo Woo	<i>Ethiopian Technical University, Ethiopia</i>	Improving the Fatigue Design of Mechanical Systems such as Refrigerator
Z Kovziridze	<i>Georgian Technical University Georgia</i>	FAILURE STRESS ENERGY FORMULA
Raul B. Rebak	<i>GE Vernova Research USA</i>	Using Advanced Fuel Materials to Retrofit Current Light Water Reactors
Raman Singh	<i>Monash University, Australia</i>	Innovative Surface Modification for Enabling CVD Graphene Coating on Steels for Remarkable Corrosion Resistance
K. U. Neumann	<i>SRH University of Applied Sciences, Germany</i>	Martensitic Domain Formation in the Ferromagnetic Shape Memory Material Ni ₂ MnGa
Osman Adiguzel	<i>Firat University, Turkey</i>	Shape Reversibility and Fundamental Characterization of Shape Memory Alloys
David Sheehan	<i>Khalifa University, Ubu Dhabi, UAE</i>	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	<i>Universidad Nacional de Colombia</i>	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	<i>National Institute of Technology, Rourkela, Odisha, INDIA</i>	Investigation of mobility of graphene based field-effect transistor using ferroelectric gate
UTHAYAKUMAR G S	<i>St. Joseph's Institute of Technology, Chennai, India</i>	Artificial intelligence, IoT, and growing semiconductor technologies
Lev Rapoport	<i>Holon Institute of Technology, Israel</i>	The effect of the microstructure on the Friction and Wear Properties of Some FCC Metals under Lubricated Conditions
Carolina Fonseca de Farias	<i>Federal University of Juiz de Fora, Brazil</i>	The high-performance mortar with incorporation of marble waste and different additives
Urvashi Gunpath	<i>University of Derby, United Kingdom</i>	Laser-based material Science behind Powder Based Additive Manufacturing for Aerospace and Healthcare Industry
Rodolfo Gabriel Figueroa Saavea	<i>Universidad de La Frontera, Chile</i>	A New Tool for Cancer Theragnosis
Karima BELAKROUM	<i>University of El Oued, Algeria</i>	Structural and magnetic properties evolution of $Cu_{2x}Cr_{2x}Zr_{2-2x}Se_4$ for $0.500 \leq x \leq 0.650$
Hansang Cho	<i>Sungkyunkwan University, Republic of Korea</i>	Astrocytic Scar Restricting Glioblastoma Spreading in Glioblastoma-Microglia Assembloid
khaled Shawakfeh	<i>Jordan University of Science and Technology, Jordan</i>	Encapsulation of Digitonin-Graphene Oxide, Digitonin-Graphene-Iron Oxide Composite into Cyclodextrins
Ilham El-Monier	<i>Cairo University, Egypt</i>	Doxorubicin and RITA loaded pH-responsive Dextran nanoparticles exhibiting inhibitory effects in synergism against cancer cells
Pier Paolo Pompa	<i>Istituto Italiano di Tecnologia, Genova, Italy</i>	Point-of-care colorimetric nanobiosensors: health, safety, food, environment
bhawana jain	<i>Siddhachalam Laboratory, Raipur (C.G.) INDIA</i>	Antibacterial and photocatalytic degradation via ZnO-β-cyclodextrin nanocomposite

Refreshment and Coffee Break

Umesh Yadava	<i>Deen Dayal Upadhyaya Gorakhpur University, India</i>	Solute Binding Proteins as Smart Biomolecules: Structural and Functional Characterizations
Abdelhak Maghchiche	<i>University Batna 2, Algeria</i>	Nano composite hydrogels for biomedical applications from palm date seeds
Khatib Zada Farhan	<i>King Abdulaziz University, Saudi Arabia</i>	Influence of steel, polypropylene and glass fiber reinforcement on the high temperature resistance of alkali activated composites
Haroldo A Ponte	<i>Federal University of Paraná, Brazil</i>	Surface application of yttrium oxide nanoparticles as a protective method against high temperature oxidation to increase material's lifespan
V A Krylov	<i>Institute of the Chemistry of High Purity Substances of the Russian Academy of Sciences, Russia</i>	Gas chromatographic and gas chromatographic-mass spectrometric analysis of high purity volatile compounds for electronics and fiber optics
George Venedictovich Filatov	<i>gvmfilatov@gmail.com</i>	Ukrainian State University of Chemical Technology, Ukraine
Ang-yang Yu	<i>Harbin Engineering University, China</i>	Numerical simulation of seismic wave field in the two-phase viscoelastic EDA media
Eugenia Pechkova	<i>University of Genova, Italy</i>	Protein Langmuir-Blodgett (LB) nanofilms: characterization and applications
Santanu Ghosh	<i>Metal-insulator nanocomposite films for Field emission, Magnetic storage and LSPR for electronics and fiber optics</i>	IIT DELHI, New Delhi-110016, India
Thomas J Webster	<i>websterthomas02@gmail. com</i>	Recent advancements and locks on the development and use of heat storage materials for high temperature applications.

Refreshment and Coffee Break

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

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

R. Sivarethinamohan	<i>Imperial College London</i>	Graphene industrial application towards decarbonization
Shaolin Hu	<i>Guangdong University of Petrochemical Technology, China</i>	Outlier-tolerant Learning for Statistical Features from Sampled Signals
Philippe Legros	<i>University of Bordeaux, France</i>	CaCO₃ from Oyster Shell for Potential Application in Bone Tissue Engineering
Fouzia Achchaq	<i>University of Bordeaux, France</i>	Carbon nanotubes implementation in lead acid batteries industrial production
Siarhei Zhdanok	<i>ART MONBAT, Bulgaria</i>	Dynamic SEM study and analysis of the paraffin RT60 phase change transitions
Yan Song	<i>Chinese Academy of Sciences, China</i>	Preparation and Application of Pitch-based Functional Carbon Materials
Hamid Mehrabi	<i>University of Sunderland, UK</i>	Comparative analysis of additively manufactured primary, recycled and toughened polylactic acid
Zhongwei Guan	<i>Technology Innovation Institute, Abu Dhabi, UAE</i>	Advanced Materials Research Centre of Technology Innovation Institute Abu Dhabi, UAE
Uzma Azeem Awan	<i>National University of Medical Sciences (NUMS), Rawalpindi, Pakistan</i>	Gold Nanoparticle Mediated Optical Control Efficient Gene Knock Down in Hepatocellular Carcinoma
Muhammad Naeem	<i>National University of Medical Sciences, Rawalpindi, Punjab, Pakistan</i>	Preparation and Physicochemical Characterization of NanoCSA for Ulcerative Colitis Therapy
Sutapa Ghosh	<i>CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India</i>	Harnessing the electro-activity of Graphene based materials for Neuritogenesis and Energy storage

Fatma SAAD SAOUD	<i>University of Mhamed El Bachir El Ibrahimi, Bordj Bou Arreridj, ALGERIA</i>	Study of structural, electronic and optical properties for carbon nanotubes using DFT theory
Carlos Alberto Rios Reyes	<i>Universidad Industrial de Santander, Colombia</i>	Discovering the Zeolitic Potential of Natural Clinker: Redefining Coal By-Product Recycling for Sustainable Innovation
Na Yan	<i>Northwestern Polytechnical University, China</i>	First-principles assisted the design of high entropy thermoelectric materials based on half-heusler alloys
Xiangyan Zhu	<i>Shanghai Jiao Tong University, China</i>	Investigating zirconium flows and stocks in China: A dynamic material flow analysis
Stefania Sabella	<i>Italian Institute of Technology, Genova, Italy</i>	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	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
"Luiza Gabunia"	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
Levan Ratiani	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
Nino Pruidze-Liparteliani	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
Gvantsa Janigashvili	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
Giorgi Varazi	<i>Tbilisi State Medical University, Tbilisi, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges

You Qiang	<i>University of Idaho, USA</i>	Nano-Watermelon: Synthesis, Nanostructures, Nanomagnetism and Applications
NINI ROSE MATHEWS	<i>Instituto de Energias Renovables -UNAM, México</i>	Cu-Sb chalcogenide thin films by electrodeposition and the photoelectrochemical hydrogen evolution
Ghulam Rasool	<i>Beijing University of Technology, China</i>	"Rheology of Phase Change Materials and their Applications in Energy Storage
MIKHAIL BELKIN	<i>Russian Technological University, Moscow</i>	Jamming unauthorized radio channels with ultrafast response time
Vladimir Levchenko	<i>International Joint Institute of Advanced, China</i>	Effect of Artificial Intelligence on Obtaining Coatings and Materials with Specified Properties
V A Krylov	<i>Institute of the Chemistry of High Purity Substances of the Russian Academy of Sciences, Russia</i>	Gas chromatographic and gas chromatographic-mass spectrometric analysis of high purity volatile compounds for electronics and fiber optics
George Venedictovich Filatov	<i>Ukrainian State University of Chemical Technology, Ukraine</i>	The problem of durability of Structures under their Hydrogenation
Ang-yang Yu	<i>Harbin Engineering University, China</i>	Harbin Engineering University, China
Eugenia Pechkova	<i>University of Genova, Italy</i>	Protein Langmuir-Blodgett (LB) nanofilms: characterization and applications
Santanu Ghosh	<i>IIT DELHI, New Delhi-110016, India</i>	CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India
Ranjit Ray	<i>Saint Louis University, Missouri</i>	Hepatitis C Virus Vaccine Candidate Using mRNA-LNP Platform
R. Sivarethinamohan	<i>Imperial College London</i>	Graphene industrial application towards decarbonization

Dr Nuzhat Ahsan	<i>Quant Lase Lab LLC, Abu Dhabi, UAE</i>	Advancements in QCM-Based Biosensors: Integrating Biomaterials and Polymeric Coatings for Enhanced Disease Biomarker Detection
Dr Reshmi Raj	<i>Quant Lase Lab LLC, Abu Dhabi, UAE</i>	Bridging Strength and Sensitivity: Biomaterial Innovation in Abdominal Hernia Repair with Extracellular Matrix Hydrogel Coated Polypropylene Mesh
Eugene Stephane Mananga	<i>The City University of New York, USA</i>	NWChemEx Science Challenge Calculations to Investigate the dehydration of 2- propanol reaction
Prof Leelakrishna Reddy	<i>University of Johannesburg, South Africa</i>	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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