

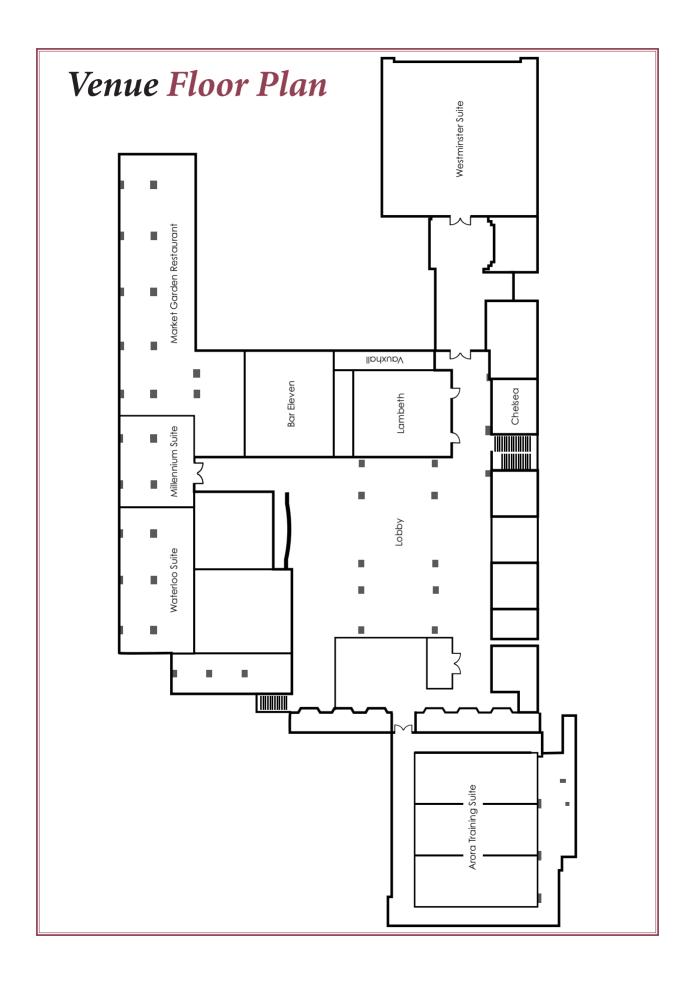


#### **TENTATIVE PROGRAM**

## 10<sup>th</sup> Nanotech & Nanomaterials Research Conference

- **November 06-08, 2024 | London**
- Renaissance London Heathrow Hotel, Bath Road, Hounslow, Middlesex TW6 2AQ, London





# **Meeting Agenda Overview**

November 06, 2024	Day-1
08:00-08:20	Registration and Conference Material Collection
08:20-08:30	Introduction
08:30-10:30	Session: Nano in Life Sciences, Medicine, and Healthcare
10:30-10:50	Coffee Break
10:50-12:40	Session: Nano in Life Sciences, Medicine, and Healthcare
12:40-13:40	Lunch Break
13:40-16:30	Session: Nano in Life Sciences, Medicine, and Healthcare
16:30-16:50	Coffee Break
16:50-18:00	Poster presentations
19:30-21:30	Social & Networking Events
November 07, 2024	Day-2
08:30-10:30	Session: Nano in Food & Agriculture
10:30-10:50	Coffee Break
10:50-12:40	Session: Nanomaterials Characterization
12:40-13:40	Lunch Break
13:40-16:10	Session: Nanotechnology in Energy
16:10-16:30	Coffee Break
16:30-18:00	Session: Nanotechnology in Energy
November 00, 2024	D 2
November 08, 2024	Day-3
08:30-09:30	Session: Nanotechnology in Manufacturing and Construction
09:30-10:50	Session: Nano Electronics
10:50-11:10	Coffee Break
11:10-12:30	Session: Nanocomposites, Nanostructured and Nanoporous Materials
12:30-13:30	Session: Nanoelectronics: Fabrication, Processing & Characterization Techniques

13:30 Lunch and Departure

08:00-08:20 Registration and Conference Material Collection

08:20-08:30 Introduction

#### **Plenary Speaker**

The Impact of Nanomedicine: 30,000 Orthopedic Nano Implants with No Failures and Still Counting Thomas J. Webster, Mansfield Bioincubator, USA

#### Nano in Life Sciences, Medicine, and Healthcare

Surface Enhanced Raman Scattering (SERS) for Low Concentration Molecular Detection Applications Arthur McClelland, Center for Nanoscale Systems Harvard University, United States

Silicon Nanoneedles for Sustained Treatment of Ocular Angiogenesis

Yannis M. Paulus, University of Michigan, US

Targeting Nanomedicine in the Vascular System

Vladimir Muzykantov, University of Pennsylvania, United States

Chemically Modified Liposomal siRNA Formulation Targeting SOD1 for Chemosensitization of Platinum-Resistant Ovarian Cancer

Attila Szenasi, University of North Carolina at Chapel Hill, US

Liposomal Drug Delivery to Target Hypoxic Tumor Environment

Adam WG Alani, Oregon State University, United States

Exploring Hollow Gold Nanoparticles as Multifunctional Therapeutic Platforms for the Treatment of Breast Cancer

Zeljka Krpetic, University of Salford, UK

Preserving and Capturing Projectiles Shot at Supersonic Speeds using SynBio Materials Jennifer Ruth Hiscock, University of Kent, UK

Nanobubbles for Enhanced Delivery of Chemotherapeutic and Anti-Microbial Agents Damien V. B. Batchelor, University of Leeds, UK

The Multiscale Architecture of Biomembranes and Vesicles

Reinhard Lipowsky, Kanazawa University, Germany

Structural Dynamics Analysis of E3 Ubiquitin Ligase, E6AP HECT Domain, Revealed by High-Speed Atomic Force Microscopy

Hiroki Konno, Kanazawa University, Japan

Particle Formation Mechanism of TiCl4 Hydrolysis to Prepare NanoTiO2

Qianjun Le, Ziyang College of Dental Technology, China

Predictive Protein Module based on PPI Network and Double Clustering Algorithm

Tao Lu, Nanning University, China

Coffee Break

ThermomiR-377-3p-Induced Suppression of Cirbp Expression is Required for Effective Elimination of Cancer Cells and Cancer Stem-like Cells by Hyperthermia

Yan Sun, Guangdong Provincial People's Hospital, China

Cuprous Oxide Nanocomposites with Photothermal (PTT) and Chemical Dynamics (CDT) Effects Induce Cuproptosis in Breast Cancer using the Strategy of Increasing Inflow and Reducing Outflow Wei Li, The Second Affiliated Hospital, Hengyang Medical School, University of South China, China

Glycyrrhizic Acid/Carbon Nanozyme Injectable Hydrogel Promotes Wound Healing of Multiple Bacterial Infections

Chen Xu, Jilin Agricultural University, China

Serum Albumin-templated Nanoparticles with Chondroitin Sulfate and Methotrexate for Synergistic Cancer Therapy and Lungs Metastasis Inhibition via Lymph Node Targeting Haroon Igbal, Wenzhou Medical University, China

Improved CaP Nanoparticles for Nucleic Acid and Protein Delivery to Neural Primary Cultures and Stem Cells Hsu-Wen Chao, Taipei Medical University, Taiwan

Au Nanodyes as Enhanced Contrast Agents in Wide Field Near Infrared Fluorescence Lifetime Imaging Neelima Chacko, Ariel University, Israel

Altering the Mechanical Properties of Self-Assembled Bacterial Filaments Through Protein Engineering Neta Sal-Man, Ben-Gurion University of the Negev, Israel

**Biomedical Polymeric Nanoparticles** 

Avi Domb, The Hebrew University of Jerusalam, Israel

Quantum Dots-Hydrogel Composite for Drug Delivery and Cell Imaging Approaches Nurten Asina, Cyprus International University, Cyprus

Condensation-Assisted Hazardous Vapor Detection on 3D Gold Nanoparticle SERS Pratiksha Prabhakar Mandrekar, Kongju National University, South Korea

Hyaluronic Acid: Development and Application in Drug Delivery Systems Carla Serri, University of Sassari, Italy

Improved pDNA-Loading in Lipid NPs through Microfluidics: Optimization and in Vitro Trials Jason T. Duskey, University of Modena and Reggio Emilia, Italy

Harnessing Protein Corona to Enable MRI-Based Microthrombi Detection in Stroke with Polydopamine Iron Oxide

Thomas Bonnard, Inserm, PhIND Laboratory (U-1237), France

Phytochemical Constituents of Inula Confertiflora Leaf

Minbale Gashu, Debre Berhan University, Ethiopia

Enhancing Charge Transfer on Graphene Surface-Enhanced Raman Spectroscopy by Adjusting Graphene's Fermi Energy

Samar Ghopry, Jazan University, Saudi Arabia

Bioinspired Synthesis of Magnetic Nanoparticles Based on Iron Oxides Using Orange Waste and Their Application as Photo-Activated Antibacterial Agents

Maria Paulina Romero, Escuela Politecnica Nacional, Ecuador

Lunch

Broad-Spectrum Antimicrobial ZnMintPc Encapsulated in Magnetic-Nanocomposites with Graphene Oxide/MWCNTs Based on Bimodal Action of Photodynamic and Photothermal Effects

Maria Paulina Romero, Escuela Politecnica Nacional, Ecuador

Rosemary Essential Oils Nano Formulation and Its Antimicrobial Activitie

Mouzaki Mustapha, Agadir Faculty of Medicine and Pharmacy, Morocco

Targeted Cancer Therapy using Hyaluronated Nanoparticles: Modulation of MicroRNA EpigeneticsAhmed A. Abd-Rabou, National Research Centre, Egypt

Heavy Metals and Ecological Alterations Resulting from Wastewater Discharge in Inner Puno Bay, Lake Titicaca

Ingrid Maldonado Jimenez, Universidad Nacional de Moquegua, Peru

Improving Cancer Diagnosis via Nanofabricated Colorimetric Histology Platforms Brian Abbey, La Trobe University, Australia

Innovating Extracellular Vesicles for Cardiac Repair

David W. Greening, Baker Heart and Diabetes Institute, Australia

From Breast Implants to Space Exploration: Diverse Applications of Carbon Nanomaterials Karthika Prasad, Australian National University, Australia

**Emerging Nanotechnologies for Targeting Pathogenic Bacterial Biofilms** 

Vesselin Paunov, Nazarbayev University, Kazakhstan

Surface Modification of Redox-Active Molecule on Halloysite Nanotube for the Electrochemical Detection of Bioactive Molecules

Kannaiyan pandian, University of Madras, India

Theranostic Application and DNA Binding Property of a Semiconductor Nanoparticle, CuTe Kamalika Sen, University of Calcutta, India

Nano Sensors in Healthcare: Revolutionizing Diagnostics and Monitoring

Jay Kumar Pandey, Shri Ramswaroop Memorial University, India

Nanozymes for Wound Healing

Dimple Sethi Chopra, Punjabi University, India

Synergistic Effect of Copper Nanoparticles with other Nanoparticles in the Management of Disease of Pomegranate

Kavyashri B. Joshi, PVP College, India

Oleic and Palmitic Acids with Bioderivatives Essential Oils Synthesized of Spherical Gold Nanoparticles and Its Anti-Human Breast Carcinoma MCF 7 In Vitro Examination

Ali Kadhum Bidan, University of Basrah, Iraq

**Coffee Break** 

#### **Poster Presentation**

- P01 Early Detection of Lung Cancer via miR-155 and Surface Enhanced Raman Spectroscopy (SERS) Christina Quin, Lincon-Sudbury Regional High School, US
- P02 Seasonal and Daily Variations in Lung-Deposited Surface Area of Ambient Fine PM in Los Angeles Constantinos Sioutas, University of Southern California, USA
- P03 Mechanical Properties of Bone: Age and Disease Perspectives at the Nanostructural Level Farah Hamandi, Wright State University, United States

P04	Metal Bionanoparticles: Optimization of Mycosynthesis, Characteristics and Antimicrobial Activities Against Crop Pathogens Patrycja Golinska, Nicolaus Copernicus University in Torun, Poland
P05	Biosynthesized Metal Nanoparticles with Antimicrobial Activity for Stimulation of Plant Growth Joanna Trzcińska-Wencel, Nicolaus Copernicus University in Toruń, Poland
P06	Cellular uptake of Spherical Gold Nanoparticles in PC-3 Cells: Dual-phase Kinetic uptake and Modelling Gabriela Traplin, Toronto Metropolitan University, Canada
P07	Oral Administration of pH-Responsive Polymeric Nanoparticles based on Zein and their Therapeutic Potential on Cancer Bruno Alejandro Valades-Aguilar, Autonomous University of Nuevo León, Mexico
P08	Phage-Loaded Nanofibers: A Promising Nanobiopesticide Coating for Packaging Against Food Pathogens Fernanda Coelho, University of São Paulo, Brazil
P09	Development of Biomimetic Doxorubicin-Loaded Magnetic Nanoparticles for Targeted Breast Cancer Therapy  Maria Julia Bistaffa, Nanomedicine and Nanotoxicology Group (GNano), Brazil
P10	Synthesis of NanoSAP for Harvesting Atmospheric Water for Human Consumption Valquiria de Campos, UNESP, Brazil
P11	Self-Powered Dual-Mode Wireless System for Real-Time Monitoring of Marine Structures Zhiguo He, Zhejiang University, China
P12	Preparation, Structural Characterization, Optical, Photoluminescence, AC Electrical Conductivity and Broadband Dielectric Properties of WO 3 Reinforced PEG/CS Blend for Futuristic Optoelectronic and Energy Storage Devices  Maha A. Alqarni, University Of Jeddah, Saudi Arabia
P13	Growth of Variable Aspect Ratio ZnO Nanorods by Hydrothermal Technique Asmaa Omair Al-Rasheedi, Jeddah University, Saudi Arabia
P14	Polymer-Stabilized Ag, Ni, and Co Nanoparticles Obtained in Situ in a Polymer-Inorganic Matrix for Anti-Cancer Treatment Olga Akopova, AA Bogomoletz Institute of Physiology NAS of Ukraine, Ukraine
P15	Metal Organic Batteries as a Scalable and Environment-Friendly Solution for Large-Scale Energy Storage Saira Sarwar, Adam Mickiewicz University, Poland
P16	Adsorptive and Photocatalytic Degradation Potential of Porous Polymeric Materials for Removal of Pesticides, Pharmaceuticals, and Dyes-Based Emerging Contaminants from water Muhammad Irfan, Adam Mickiewicz University, Poland
P17	Metal-Coated Magnetic Iron Oxide Nanoparticles for Antimycobacterial Applications Motunrayo Victoria Badejo, Stellenbosch University, South Africa
P18	Nanostructured SiO <sub>2</sub> Material: Synthesis Advances and Applications in Rubber Reinforcement Agraw Mulat, Assosa University, Ethiopia
P19	DFT Calculations of Thermodynamic Properties of CsSnl3  Dilshod Nematov, S.U. Umarov Physical-Technical Institute of the National Academy of Sciences, Tajikistan

P20	The Efficiency of Silver Iodide Nanoparticle as a Novel Suppression Agent for Grown, Migrated,
	and Invasive Papillary Thyroid Cancer Cells
	Saeed M. Fayadh, Mustansiriyah University, Baghdad

- P21 Green Synthesis of Lignin-based Nanoparticles as a Bio-Carrier for Targeted Delivery in Cancer`
  Therapy
  Khuchhoo Bathania Baniah University India
  - Khushboo Pathania, Panjab University, India
- P22 Nanoparticles for Cancer Treatment: Present Developments and Obstacles
  Mamta Kumari, Maharana Pratap college of Pharmacy, India
- P23 Comparison of Induction of Fibrosis on 2D Cell Culture and 3D Bioprinted Scaffolds using Methotrexate

  Mrunmayi Ashish Gadre, Manipal Centre for Biotherapeutics research, India
- P24 Rejuvenation of Heavy Polluted Environment using Sustainable Biotechnological Techniques Nirmala GN, Vels Institute of Science, Technology & Advanced Studies (VISTAS), India
- P25 Magnetically Recoverable Molybdate Silica Decorated Ferrite Nanocat (Fe-Si-Mo) and their Utilization for Reductive Amination of Carbonyl Compound under Benign Condition Shripad Mukundrao Patil, Dada Patil Mahavidyalaya, India
- P26 Prediction of a New Nanostructure called Porphyrin-Like Buckyball, using Density Functional Theory and Investigating Electro Catalytic Reduction of CO2 to CO by Cobalt-porphyrin-Like Buckyball
  - Mohammad Asadpour, Khaje Nasir Toosi University of Technology, Iran



### Nano in Food & Agriculture

Transcriptomics of Temperature-Sensitive R Gene-Mediated Resistance Identifies a WAKL10 Protein Interaction Network

Henrik Stotz, University of Hertfordshire, United Kingdom

Biochemical Responses of Coffea Arabica Var. Borbon to Foliar Exposure of Copper Doped Silica Chitosan Oligosaccharides Nanoparticles

Alexis Salazar, Autonomous University of Baja California, México

Seed Priming with Zinc Oxide Nanoparticles: An Innovative Approach to Alleviate Cobalt-Induced Stress and Enhance Maize Growth

Yinbo Gan, Zhejiang University, China

PANI Modified Ag NPs Fluorescence Sensor for Detection of Nitrate Ion

Abdu Hussen Ali, Mekdela Amba University, Ethiopia

Controlled Adiabatic Quantum Evolution In Low-Dimensional Nanoscale Systems

Jasurbek Matrasulov, National University of Uzbekistan, Uzbekistan

**Coffee Break** 

#### **Nanomaterials Characterization**

Ultra-Long Afterglow of 2D Transition Metal Dichalcogenides

Assaf Yaakobovitz, Ben-Gurion University of the Negev, Israel

Large-Size 2D Bi2Te3 Single Crystal Materials and Its Growth Behavior

Jinzhong Wang, Harbin Institute of Technology, China

**Mechanical Properties of 3D Boron Nitride Foam** 

Yarden Mazal Jahn, Ben-Gurion University of the Negev, Israel

Improved Photovoltaic Performance of GaAs/Carbon Nanotube Heterojunction Solar Cells with a Multifunctional Nafion/PEDOT: PSS Layer

Wenliang Wang, South China University of Technology, China

Visible-Light-Driven Photo-Fenton Oxidation Enhanced by Fe/Bi-Nanocrystal Phase Transformation as a Universal Way for Various Organic Pollutants Mineralizati

Tulai Sun, Zhejiang University of Technology, China

Synthesis and Functionalization of Silica Nanoparticles with Silver Ions as a Hydrophobic and Antibacterial Fabric Coating

Alexis Salazar, Autonomous University of Baja California, Mexico

Graphene Synthesis in Inductively Coupled Thermal Plasma Reactor Using Methane Precursor Reem Mahmoud, University of Sherbrooke, Canada

Magnetic Aerogels from FePt and CoPt3 Synthesized in Organic Media

Larissa Schoske, University Hamburg, Germany

Nanocellulose Synthesized by Acid Hydrolysis of Cellulose Separated from Coconut Shell Powder and Used as a Filler in Natural Rubber for Mechanical and Thermal Property

Isha Meshram, University of Naples, Italy

Biomacromolecules/Halloysite Hybrids for Biomedical Applications

Giuseppe Cavallaro, University of Palermo, Italy

Effect of Hydrothermal Reaction Temperature on Fluorescent Properties of Carbon Quantum Dots Synthesized from Lemon Juice for Adsorption Applications

Gadisa Deme, Adama Science and Technology University, Ethiopia

Muti-stimuli Controlled Properties of Shape Memory Polymer Composites from Biobased Benzoxazine-Epoxy Copolymers Filled with Magnetic Nanoparticles

Sarawut Rimdusit, Chulalongkorn University, Thailand

Impact of Temperature and External Field Driving Rate on Disordered Antiferromagnetic-Ferromagnetic Bilayers

Svetislav Mijatovic, University of Belgrade, Serbia

Multi-Functional Green Copper Mesh for Sustainable Membrane-Based Water Treatment Technology Hala Al-Jawhari, King Abdulaziz University, Saudi Arabia

Fabrication and Characterization of Co3O4/NiO Nanospherical Composites for Enhanced Supercapacitor Electrode Performance

Osama Madkhali, Jazan University, Saudi Arabia

Fast Responsive Mesoporous Silver Supported Silica Nanocomposite for pH Sensing Nisrin Alnaim, King Faisal University, Saudi Arabia

Exploring the Potential of rGO for Advanced Data Storage: Synthesis and Characterization Salah Oudjertli, Research Center Industrial Technologies, Algeria

Study the Effect of Ga Doping on Structural, Optical and Electrical Properties of Ni1-xGaxO Thin Films Deposited by Spray Pyrolysis Technique.

Zaouche Chouaieb, Higher School of Saharan Agriculture, Algeria

Extraction, Modification and Characterization of Cellulose Nanocrystals from Biomass, Their Adsorption of Heavy Metal Pollutants from Water: A Review

Maxwell Thatyana, University of South Africa, South Africa

Electrochemical Determination of Capsaicin at Platinum Electrode Modified by CuO Nanoparticle Functionalized with Multiwalled Carbon Nanotubes

Omolola Esther Fayemi, North-West University, South Africa

Synthesis and Characterization of Mono (Ag and Ni) and Bi Metallic (Ag-Ni) Nano Particles from the Neem Azadirachta indica Stem Bark Extract for Corrosion Inhibition Test

Nasiru Pindiga Yahaya, Gombe State University, Nigeria

Novel Photothermal Magnetic Membranes for Solar-Driven Desalination

Norhan Nady, City of Scientific Research and Technological Applications (SRTA-city), Egypt

Innovative Utilization of Agricultural Waste: Towards Sustainable Activated Carbon Production for Environmental Remediation

Mahmoud fathy Mubarak, Egyptian petroleum research institute, Egypt

Preparation of Nano-Adsorbents Derivative from Fruits Seeds for Heavy Metals Removal from Aqueous Solution

Jasim Salman, Iraq University College, Iraq

Structural and Optical Properties of Copper Ions Beam Irradiated Titanium Dioxide (TiO2) Nanoparticles Shehla Honey, University of Okara, Pakistan

Lunch

#### Nanotechnology in Energy

#### The Use of Nanomaterials in Batteries

Valencia de la Vega, Nestpoint Group, United States

#### Interfacial Engineering to Enhance Electrochemical Windows

Ming Chen, Huazhong University of Science and Technology, China

Piezo-Phototronic Effect in Multi-Layer Structured Optoelectronic: Bilateral Piezoelectric Charge Modulation

Wenbo Peng, Wenbo PengXi'an Jiaotong University, China

Recent Advances in Superhydrophobic Anti-Icing Surfaces Inspired by Cold-Tolerant Plants Xiaoming Feng, Jiangsu University of Science and Technology, China

Microfluidic Sensing Textile for Continuous Monitoring of Sweat Glucose at Rest

He Zhao, East China University of Science and Technology, China

A Miniaturized Statically Balanced Compliant Mechanism for Ultra-low Wide Bandwidth Vibrational Energy Harvesting on Chip

Haitong Liang, Beijing Forestry University, China

Advanced Nanomaterial-Based Technology for Antibiotic-Polluted Water Remediation

Hamid Rajabi, The University of Liverpool, UK

**Grouping Principles and Applications** 

David Katoshvski, Ben-Gurion University of the Negev, Israel

The Failure of Both Einstein's Space-Time Theory and his Equivalence Principle and Their Resolution by the Uniform Scaling Method

Robert Buenker, Bergische University, Germany

Numerical Analysis of a Ruffled Fin type Automotive Car Radiator Operating with Different Particle-Shaped Optimized Ternary Nanofluid

Doga Kavaz, Cyprus International University, Turkey

Impregnation of Fly Ash Sorbent for Decontamination of Toxic Organic and Inorganic Pollutants in Wastewater

Shoroug Ahmed, kuwait institute for scientific research, kuwait

#### **Bioinspired Nanocomposite for Passive Cooling**

Li Hong, Nanyang Technological University, Singapore

Geometrical Stabilities and Electronic Structures of Rh5 Nanoclusters on Rutile TiO2 (110) for Green Hydrogen Production

Moteb Qahess M Alotaibi, Prince Sattam Bin Abdulaziz University, Saudi Arabia

FEM Simulations for Nanofluidic Transport of Ternary Nanofluid in a Concentric Semi-Circular enclosure: An application of Latent Energy Storage

Sardar Muhammad Bilal, Prince Mohammad Bin Fahd University, Saudi Arabia

Enhancing Optical Properties of Ba-Niâ,,â,û,"Znâ,"Feâ,â,†Oâ,,â,‡ Ferrite for High-Efficiency Solar Cells and Optoelectronic Applications through Nonmagnetic Ion

Sadiq Hassan Khoreem, AL-Razi University, Yemen

Enhancing the Properties of ZnO through Carbon Nanotube Doping: A Co-Precipitation Approach Salah Oudjertli, Research Center Industrial Technologies, Algeria

#### Multiferroic Bismuth Ferrite based materials

Amira Amouri, Laboratory of Nanomaterials and Systems for Renewable Energy of Research and Technology Center of Energy, Tunisia

#### **Coffee Break**

MoS2-ZnIn2S4/Single Layer Graphene Oxide (SLGO): A Noble Metal Free Photocatalyst for Enhanced Photocatalytic Hydrogen Evolution

Fizza Siddique, Minzu University of China, China

The use of Graphene for Asymmetric Diodes and the Role of Defectiveness Degree for Energy Harvesting Applications

Emiliano Laudadio, Polytechnic University of Marche, Italy

Polypyrrole Modified Granular Activated Carbon Nanocomposite: Synthesis and Application for Wastewater Treatment Laden with Toxic Cr(VI)

Katlego Setshedi, CSIR, South Africa

Development of Novel Mesoporous Magnetic Adsorbents Derived from Industrial Waste and their Application for Environmental Application in Adsorptive Removal of Lead and Efavirenz Masixole Sihlahla, University of South Africa, South Africa

Construction of Crystalline Graphitic Carbon Nitride based composites: Photocatalytic Energy Conversion Xiao Zhang, Cracow University of Technology, Poland

Narrowing of Band gap and decrease in the Dielectric loss in La1-xSrxMnO3 for x = 0.0, 0.1, and 0.2 manganite nanoparticles

Rauf Abid, International Islamic University, Islamabad

Green Loading of Pdo Nanoparticles onto Activated Carbon and its Antibacterial Activities against Staphylococcus aureus and Escherichia coli

Aisha Mohammed Al Musharrafi, Sultan Qaboos University, Oman

Narrowing of Band Gap and Decrease in Dielectric Loss in La1-xSrxMnO3 for x = 0.0, 0.1, and 0.2 Manganite Nanoparticles

Shaheryar Malik, International Islamic University, Islamabad

Bi2Te<sub>3</sub>/MoS<sub>2</sub> Nanohybrid Material Deposited on a Flexible Substrate for Self-Powered Photodetection Bal Chandra Yadav, Babasaheb Bhimrao Ambedkar University, India

Analyzing the Oscillatory Magneto-Hydrodynamic Nanofluid Flow through the Lens of the First and Second Laws of Thermodynamics, Utilizing Computational Fluid Dynamics and a Machine Learning Methodology Naimeh Hajialigol, Hamedan University of Technology, Iran

 ${\it Mesoporous~Co_3O_4@CdS~Nanorods~as~Anode~for~High-Performance~Lithium-ion~Batteries~with~Improved~Lithium~Storage~Capacity~and~Cycle~Life}$ 

Hamza Waleed, Pakistan Institute of Nuclear Science and Technology, Pakistan



#### Nanotechnology in Manufacturing and Construction

Enhancing Structural Integrity: Functionalized Hybrid Carbon Nanotubes in Cement-based Composites Robabeh Jazaei, Slippery Rock University of Pennsylvania, United States

#### **Nano Electronics**

Patterning Optimization for Device Realization of Patterned GaAsSbN Nanowire Photodetectors Sean Johnson, High Point University, US

Control of Dynamic Percolation Kinetics in Electrically Conductive Pastes Containing Multi-Walled Carbon Nanotubes Using Chemical Factors

Masahiro Inoue, Gunma University, Japan

Interfacial Engineering Enables Polyaniline Decorated Bismuth Sulfide Nanorods Towards UV Vis Broad Spectra Photodetector

Anshika Singh, University of Genova, Italy

#### Nanocomposites, Nanostructured and Nanoporous Materials

Biosynthesis, Characterization and Potential Antimicrobial Studies of Ag-MgO Nanocomposite Mediated from Talinum Fructicosum Leaf Extract

Gildas Fonye, University of Yaounde I, Cameroon

#### Nanoelectronics: Fabrication, Processing & Characterization Techniques

Single-Step Inkjet-Printed Dielectric Template for Large Area Flexible Signage and Low-Information Displays

Chandra Kant, Indian Institute of technology, Kanpur

#### **Lunch and Departure**

\*This is a tentative program for the Conference and is subjected to change without any prior notice

### We wish to see you@

# Nano London 2024

### Organized by



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