

**Tentative Program**

**2<sup>nd</sup> Global Conference on**

# **Material Science and Nanotechnology**

**Theme: Pioneering Discoveries in Material  
Science and Nanotechnology**

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**April 13-15, 2026  
Paris, France**

## Keynote Presentations-Virtual

**Alexander G. Ramm**

Kansas State University, United States,

Title: Creating materials with a desired refraction coefficient and other applications

**Stanislav Ordin**

Russian Academy of Sciences, Russian Federation

Title: Nano technologies and physics of the missing scale

**Paulo Cesar De Moraes**

Catholic University of Brasilia, Brazil

Title: Exploring nanomagnetism of molecular-dressed ultrafine nanoparticles

**Konstantin Zsukovszki**

HUN-REN Wigner RCP, Hungary

Title: Ion Energy Boost and Enhanced Energy Transfer from Laser Radiation to Matter with Resonating Nanoantennas

**Kung Chung Yuan**

National Chung Hsing University, Taiwan

Title: The direct evidence of relation between Penrose tiling and Quasi crystal

**Osman Adiguzel**

Firat University, Turkey

Title: Shape reversibility and the role of twinning reactions in martensitic transformations in shape memory alloys

**Yashu Swami**

Manav Rachna International Institute of Research and Studies, India

Title: Smart nanoelectronics: integrating AI and ML in materials design and nanoscale device optimization

**S.V.A.R.Sastry**

Harcourt Butler Technical University, India

Title: Bio synthesis and characterization of plectranthus amboinicus derived silver nanoparticles impregnated with zeolite

**Rabindranath Jana**

Haldia Institute of Technology, India

Title: Nanomaterials for effective industrial fire control

**Manjot Kaur Sidhu**

CGC University, India

Title: Nano intelligence: Synergistic integration of artificial intelligence and nanotechnology for next generation engineering systems

Keynote Presentation slots are available

## Oral Presentations-In-Person

**Antonio Pantano**

University of Palermo, Italy

Title: Characterizing nanoparticle dispersion with a novel micro thermographic approach based on pulsed laser excitation

**Abdeen Mustafa Omer**

Energy Research Institute (ERI), United Kingdom

Title: Energy efficient for heat exchanger, refrigeration and air conditioning

**Shoichiro Ozaki**

Ehime University, Japan

Title: NOx elimination and CO2 concentration change

**Yangui Yu**

Wenzhou University/Zhejiang Guangxin Research Institute, China

Title: Calculation theories &amp; models &amp; methods from microscopic, nanometer to macroscopic sizes in whole process on damage &amp; crack in metal materials &amp; structures

**Arbi Fattoum**

University of Gafsa, Tunisia

Title: Non-surgical therapy of periodontal disease. scope of a new treatment protocol

**Christopher Oluwatobi Adeogun**

South China University of Technology, China

Title: 2-D equivalent analytical model for winding losses calculation in gapped magnetic components

**Hussain Shafaat**

Beijing Institute of Technology, China

Title: Enhanced performance quantum dot infrared photodetectors via interface engineering with mxenes

**Angyang Yu**

Liaoning Technical University, China

Title: Theoretical insights into structure, electronic and mechanical properties of RuB<sub>x</sub> (x=1, 2, 3)**Prakash Jayabal**

Translational Health Science and Technology Institute, India

Title: Translational potential of a sustainable mxene/collagen patch for chronic wound care

<b>Leonard Mwaikambo</b> University of Dar es Salaam, Tanzania	Title: Structure Property Relationship of Cellulosic Fibres
<b>Bashir H Osman</b> University of Sinnar, Saudi Arabia	Title: Seismic behavior of energy saving self insulating masonry walls under in plane cyclic loading
<b>Samar Ghopry</b> Jazan University, Saudi Arabia	Title: Enhanced photodetection in intermixed TMD nanodiscs graphene heterostructure nanohybrids
<b>Haim Livni</b> Oslo Reliability, Israel	Title: Nano Reliability Models
<b>Muhammad Jehangir</b> Air pharmaceutical, Pakistan	Title: Biotransformation of pharmaceutical drugs
<b>Shahab Khan</b> University of Malakand, Pakistan	Title: Synthesized tio2 nanoparticles mitigating salinity stress in okra plants via foliar application
<b>Syeda Hijab Zehra</b> Lithuanian Research Center for Agriculture and Forestry, Lithuania	Title: Microwave assisted synthesis of antimicrobial silver nano particles using propolis extracts
<b>Iman Bagherpour</b> Islamic Azad University, Iran	Title: Engineering multifunctional nanocomposites: From hardystonite graphene biomaterials to inorganic nanoparticle based drug delivery for neurodegenerative disease therapy
<b>Taoreed Adesola Adegbola</b> Tshwane University of Technology, South Africa	Title: Design and characterization of Mg-Zr/Ti/Ni/Cr alloys for optimized mechanical and electrochemical performance in biomedical applications
<b>Basiru Philip Aramide</b> Tshwane University of Technology, South Africa	Title: Effect of al content on mechanical properties and wear resistance of spark plasma sintered ticunisi-al high entropy alloy

<b>Mandla Vincent Khumalo</b> Nelson Mandela University, South Africa	Title: Development of sustainable natural fibre green composites for industrial applications in south africa
<b>Oluwasegun Chijioke Adekoya</b> Tshwane University of Technology, South Africa	Title: PEGylated graphene oxide nanocarriers for 4'-Fluorouridine delivery: An ab initio framework for antiviral and tumor-targeted therapy
<b>Sajid Hussain Siyal</b> Dawood University of Engineering & Technology, Pakistan	Title: Advanced nano ceramic composite electrolytes via uv assisted processing for next gen metallic battery devices
<b>Rasul Jan</b> University of Peshawar, Pakistan	Title: Nanomaterials, its synthesis, characterization and application for signal enhancement of electrodes, enrichment and solid phase extraction of organic and inorganic species
<b>Benfdila Arezki</b> Mouloud Mammeri University, Algeria	Title: Advanced technology for producing clean water
<b>Usman Iliyasu</b> Sokoto State University, Nigeria	Title: Development of high density lead oxide doped borate glasses for radiation shielding applications
<b>Nicholas Muparadz</b> University of Zimbabwe, Zimbabwe	Title: Nanotechnology: A review on the application of nano materials in water purification and nano medicine in the zimbabwean context
<b>Tiruwork Girma Hailu</b> Jimma University, Ethiopia	Title: Development of advanced ceramic holder for spectromaxx instrument in place of metal holder for better metals composition characterization: For the case of small dimeter samples

## Oral Presentations-Virtual

**Gregory L. Light**

Providence, United States

Title: On pauli matrices and the implied spacetime geometry

**Razieh Zamani**

Purdue University, United States

Title: Electromembrane extraction on a microfluidic device for the determination of drugs in biological fluids

**Sachin Sharma Ashok Kumar**

Taylor's University, Malaysia

Title: The development of graphene oxide-based nanocomposite coatings as anti-corrosion novel surfactant

**Michael Anjello Jothi Rajan**

Aadhavan Educational and Research Trust, India

Title: Ethics of nanotechnologies driven engineering: The often overlooked and missing component in research

**Dharmendra Kumar**

Swami Vivekananda Subharti University, India

Title: Quercetin loaded banana starch nanoparticles: A novel anti cancer delivery system

**Sarvani Jowhar Khanam**

University of Hyderabad, India

Title: Advancements in organic inorganic metal halide perovskites driving clean energy solutions

**J Bagyalakshmi**

Sri Ramakrishna Institute of Paramedical Sciences College of Pharmacy, India

Title: Characterization and evaluation of green synthesised selenicereus undatus silver nanoparticles of the fruit peel for anti diabetic activity

**Andrey Belousov**

Intensive Care Kharkiv National Medical University, Ukraine

Title: Uncovering novel antibacterial mechanisms of magnetite nanoparticles (MCS-B): A new frontier in nanomedicine

**Lili Sun**

GTTC, China

Title: Rapid Screening Methods of Harmful Chemicals in Textiles

**Arash Ebrahimi**

Comenius University Bratislava, Slovakia

Title: Novel ammonia atmosphere assisted synthesis of zeolitic imidazolate framework 7 for efficient nanophotocatalysis

**Abdul Muneeb**

University of Engineering and Technology, Pakistan

Title: Dielectric barrier discharge Plasma based modification of synthesized Ag-TiO<sub>2</sub> nanocomposites for enhancement of photocatalytic activity from UV to visible region**Moqadasi Hamideh**

University of Tehran, Iran (Islamic Republic of Iran)

Title: Temporal single spike coding and learning for effective transfer learning

**Ahmad Reza Rastkar**

Shahid Beheshti University, Iran, Islamic Republic of

Title: Formation of vertically aligned carbon nanotubes on metal substrates

**Olanjiyi Awe**

Obafemi Awolowo University, Nigeria

Title: Empirical studies on natural water resources in alluvial gold ore mining communities

**Abdelmalek Ammari**

National School of Architecture Marrakech, Morocco

Title: Characterisation of the mineralogical, chemical and physical properties of earth mortars

**Oral Presentation slots are available****Poster Presentation - In Person****Eugenia Del Carmen Leon Jimenez**

National Technological Institute of Mexico, Mexico

Title: Effects of greenly bimetallic nanoparticles applied in maize crops fields on native bees melipona beecheii

**Eduardo Perez Careta**

University of Guanajuato, Mexico

Title: Corrosion inhibitors in oil refinery primary plants. A case study for the refinery ing. antonio m. amor

**Renu Devi**

Indian Institute Of Technology, India

Title: Sodium alginate hydrogels embedded with copper co crystals and zinc oxide nanoparticles for advanced wound healing applications

**Mingwei Chen**

The First Affiliated Hospital of Xi'an Jiaotong University, China

Title: Therapeutic mechanism of hucMSCs via circANKRD42-miR-136-5p-YAP1 in pulmonary fibrosis

**Mamadou Dia**

Cheikh Anta Diop, Senegal

Title: Theoretical study of the evolution of mesh disagreement rate of heterostructures based on gasb, ga1-xinxsb, and ga1-xalxsb, and the determination of the critical thickness of ga1-xinxsb, and ga1-xalxsb epitaxies layers

**Iza Rozman**

National Institute of Biology, Slovenia

Title: Safety profiling of magnetic nanoparticles: Cyto and genotoxicity in 3D human hepatic model in vitro

**Luan Qafmolla**

Private Consultant, former employee of Institute Nuclear physics, Albania

Title: Development of policy and strategy of the nanomaterials for environmental safety or security by radioactive ,nuclear agents at critical infrastructure facilities in albania

**Poster Presentation – Virtual****Armand Tchakounte Ngoungue**

University of Douala, Cameroon

Title: Optimization of the synthesis of a geopolymers based on volcanic slag and iron filings for the decolorization of used palm kernel oil employed in electrical transformers

**Poster Presentation slots are available**