

10th Edition of World Nanotechnology Conference

**Theme: Building Bridges to Nano
Excellence: A Shared Nanotech
Journey**

**10-12TH
MARCH
2025**

Our OCMs



RAMAN SINGH
Monash University, Australia



PAULO CESAR DE MORAI
Catholic University of Brasilia, Brazil



MICHAEL I TRIBELSKY
Lomonosov Moscow State
University, Russian Federation



THOMAS J WEBSTER
Hebei University of Technology,
China

Scientific TOPICS

- Research on Covid-19 Medicine and Vaccine
- Applications of Nanotechnology in Corona Virus Diagnosis & Treatment
- Life Sciences & Nanomedicine
- Nanoscience and Technology
- Nanobiotechnology and Nanosafety
- Nanochemistry and Wet Nanotechnology
- Energy and Environment
- Nano computational modeling
- Nano Engineering
- Nanotech : In other fields
- Nanomaterials, biomaterials and synthesis
- Pharmaceutical nanotechnology
- Environmental Nanotechnology
- Nanotechnology Applications
- Nanocharacterization and Nanomanufacturing

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Roma RM, Italy | Hybrid Event

Keynote Presentations (In-Person)

Serge Cosnier, Silesian University of Technology, Poland

Title: Nanostructured biodevices based on carbon nanotubes and glyconanoparticles for bioelectrocatalytic applications

Thomas J Webster, Hebei University of Technology, China

Title: Recent advances in nanomedicine: Sensors, implants, artificial intelligence, saving the environment, human studies, and more

Keynote Presentations (Virtual)

Harry E Ruda, University of Toronto, Canada

Title: Harnessing the unique transport properties of InAs nanowires for single molecule level sensing

Raman Singh, Monash University, Australia

Title: Success in developing CVD graphene coating on mild steel: A disruptive approach to remarkable/ durable corrosion resistance

Paulo Cesar De Moraes, Catholic University of Brasilia, Brazil

Title: Using CuO polycrystalline nanoflms as sensor for small organic molecules

Oral Presentations (In-Person)

Ribal Georges Sabat, Royal Military College of Canada, Canada

Title: Photonic metasurfaces in azobenzene materials

Drishti, Deakin University, Australia

Title: Plant benefit and terrestrial eco-toxicology assessment of biogenic boron nanofertilizer

Mahfoudh RAISSI, LSBU, France

Title: Efficient large area semi-transparent Dye-Sensitized Solar Cells (DSSCs) printed with DMD400 technology

Antonio Pantano, Università degli Studi di Palermo, Italy

Title: Non-destructive evaluation technique for assessing nanoparticle dispersion in composite materials

Bruno Ribeiro, IMDEA Materials Institute, Spain

Title: Metals against Leishmaniasis: Unlocking the potential of biodegradable metal nanoparticles against parasitic diseases

Maria Cecilia Colautti, Defense University of Republic of Argentina, Argentina

Title: Microplastics and nanoplastics in Antarctica. Consideration their impact on ecosystems and human and fauna health

Makoto Sakurai, National Institute for Materials Science, Japan

Title: Exotic magnetism of liquid-like molecular spins in on-surface synthesized nanoclusters

Lazic Vesna, Vinca Institute of Nuclear Sciences, Serbia

Title: Visible-light-active interfacial charge transfer complex: Photocatalytic and antimicrobial properties

Tentative Program

Hornng-Yi Chang, National Taiwan Ocean University, Taiwan

Title: Base metals doped ceria for bifunctional oxygen/ hydrogen evolution reaction

Saumyadip Sarkar, National Taiwan Ocean University, Taiwan

Title: Boron- doped Alginate Carbon- nanogels exhibits superior anti- metastatic effect on breast cancer by cell cycle arrest and actin dysfunction

Mohd Mustafa Ahmad Basheer, University of Jordan, Jordan

Title: Green nanotechnology: A game changer in water treatment

Sharif Abdelghany, University of Jordan-School of Pharmacy, Jordan

Title: PVA- sucrose based dissolving microneedles incorporating glimepiride nanocrystals a potential treatment for type 2 diabetes mellitus

Xun Yuan, Qingdao University of Science and Technology, China

Title: Design of ultrasmall metal nanoclusters for disease theranostics

Sravan Nayeka Gaikwad, Gulbarga University, India

Title: Magnetohydrodynamic convective instability in binary nanofluids with thermodiffusion for water (H₂O) Lithium Bromide (LiBr) absorption refrigeration system

Diksha Vats, Indian Institute of Technology Roorkee, India

Title: Molecular dynamics study of surfactant characteristics and aggregation behavior in pesticidal nanoemulsions

Prathmesh Bhadane, Indian Institute of Technology Gandhinagar, India

Title: Adsorption and recovery of Rare Earth Elements (REEs) using copper imidazolate (BNMG- I) metal organic framework from electronic waste

Shivani Bhati, Jawaharlal Nehru University, India

Title: Paclitaxel and fisetin loaded RBC- PCL biomimetic nanof ormulation as advanced chemotherapeutics agent

Sanchayan Mahato, Indian Institute of Technology Kharagpur, India

Title: Fe, Cr co- doped fluorophosphate cathode for high performance sodium- ion batteries

Avinash Prabhakar Rao Ingle, Biotechnology Centre, India

Title: Development of sulphonic acid- functionalized nanocatalyst and its application in the pre- treatment of sugarcane bagasse

Prakul Sunil Hiremath, VTU Belagavi, India

Title: Hybrid nanophotonics: Integrating plasmonics and photonic crystals for innovative applications across science and technology

Lovely Ranjta, AKS University, India

Title: Nanocomposite gel polymer electrolytes: Beneficial yet malefic

Prashant Sutkar, NES Science College, Nanded, India

Title: Flow and heat transfer in micropolar fluid stuffed between viscous fluids with magnetohydrodynamic effect

H. Sivaram, Rajalakshmi Institute of Technology, India

Title: Nickel- Zinc based nanomaterials for dielectric properties and antenna applications

Sriram Raghavan, Rajalakshmi Institute of Technology, India

Title: Nickel- Zinc based nanomaterials for dielectric properties and antenna applications

Tentative Program

Adel K. Mahmoud, University of Diyala, Iraq

Title: Study the effect of rice husk nano- ash on the corrosion resistance of concrete

Mohammad Ranjbar, Shahid Bahonar University of Kerman, Iran (Islamic Republic of)

Title: Potential of zeolitic imidazolate framework (ZIF- 8) nanocomposite for separation of organic compounds from waste waters

Mahin Schaffie, Shahid Bahonar University of Kerman, Iran (Islamic Republic of)

Title: Synthesis of functionalized magnetite nanoparticles and their integration with low salinity water and surfactant solution

Khanyisile Ngcongco, University of KwaZulu-Natal, South Africa

Title: Green synthetic strategies for metallic nanoparticles and their biotechnological applications

Abdu Hussen Ali, University of Gondar, Ethiopia

Title: Biogenic Ag- based bimetallic nanoparticle for medicinal and photocatalytic application

Mansur Said, Yusuf Maitama Sule University Kano, Nigeria

Title: Comparison on the effect of adsorption on the structural and electronics properties of graphene doping on hydrogen, nitrogen and boron using DFT

Zulfiqar Ali, National Centre for Physics, Pakistan

Title: Synthesis of Al₂O₃- ZrO₂- CuO Nano- Composites for the treatment of carcinogenic dyes from waste water

Oral Presentations (Virtual)

Frank Hagelberg, East Tennessee State University, United States

Title: Surface- enhanced stimulated Raman spectroscopy with squeezed photonic states

Elisa De Luca, Institute of Nanotechnology of the National Research Council (CNR-Nanotec), Italy

Title: Catalytic nanozymes: Transformative tools for biomedical applications, therapeutics and advanced microscopy

Daniel Wasilkowski, University of Silesia in Katowice, Poland

Title: Multi- threaded effects of metal nanoparticles on the structure and selected molecular processes in model Escherichia coli, Bacillus cereus and Staphylococcus epidermidis strains

Vladimir Chigrinov, HKUST, Hong Kong

Title: Azodye photoaligned nanolayers for liquid crystal devices

Lung-Hao Hu, National Sun Yat-sen University , Taiwan

Spray- coating of cesium tungsten bronze for improved near- infrared shielding in green energy glass

Osman Adiguzel, Firat University, Turkey

Title: Shape memory phenomena and nanocharacterization of reversibility in shape memory alloys

Ang-YangYu, Henan University, China

Title: Theoretical Insights into the energy levels of quantum dots

Nadia Cheemaa, University of South China, China

Title: Nonlinear fiber optics with water wave fumes: Dynamics of the optical solitons of the derivative nonlinear Schrödinger equation

Tentative Program

S.V.A.R.Sastry, Harcourt Butler Technical University, India

Title: Hydrothermal synthesis of 2D nanoparticles for nano lubricant enhancement for reduced wear and enhanced efficiency

Dharmendra Kumar, Sanskaram University, India

Title: Banana starch nanoparticles for quercetin delivery: Formulation, characterization, and anti-cancer evaluation

Annu Thomas, Bishop Chulaparambil Memorial College, India

Title: A novel Pectin N- acetyl- L- cysteine nanoceria hybrid system with Photothermal therapeutic effects for wound healing

Amreen Khan, Indian Institute of Technology Bombay, India

Title: Thin film- embedded lipid nanostructures optimized for multi- drug co- therapies

Ravi Varala, INTI International University, Malaysia

Title: Chemistry of 31 and 7(GaN): Game changer in silicon valley

Meraj Rajaei, Department of Electrical Engineering National University of Skills (NUS), Iran (Islamic Republic of)

Title: Numerical modeling and analysis of CIGS solar cell has carried out using Silvaco simulator by varying the layer thickness of the CIGS solar cell

Rashin Bahrami, Iran University of Medical Sciences, Iran (Islamic Republic Of)

Title: Application of photosensitive dental materials as a novel antimicrobial option in dentistry

Maryam Shamshiri , Shahid Beheshti University of Medical Sciences, Iran (Islamic Republic of)

Title: Direct growth CoNi LDH on CuO nanowires integrated with RGO electrode for manufacturing of wearable high performance asymmetric supercapacitor as power supply for wearable biosensors

Shahab Ahmadi Seyedkhani, Sharif University of Technology, Islamic Republic of Iran

Design and fabrication of nanostructured electrodes based on PEDOT for biological applications

Fatemeh Bagri, Sharif University of Technology, Iran (Islamic Republic of)

Title: Innovative active packaging film from quince seed mucilage/ alginate enriched with biosilica nanoparticles containing oak extract for prolonged meat shelf life

Mahsa Heydari, Sharif University of Technology, Iran (Islamic Republic of)

Title: Simultaneous electrochemical determination of neurotransmitters using polypyrrole nanocomposites-modified titanium nitride electrodes

Matin Nasooti, Iran Polymer and Petrochemical Institute, Iran (Islamic Republic of)

Title: The relationship between mechanical properties and morphology of the nanocomposite foams based on EPDM/ CNT with type of vulcanization system

Shucayat Zeynalov, Azerbaijan Technical University, Azerbaijan

Title: Influence of Phthalic Acid on the process of dendrites development in low- density Polyethylene under electrical breakdown

Eze Jude Chibuzo, University of Nigeria, Nsukka, Nigeria

Synthesis, characterization, and antimicrobial activity of gongronema latifolium leaf extract- mediated silver nanoparticles against multi drug- resistant uropathogens

Oral presentation slots are available

Poster Presentation (In-Person)

Vikram Kapoor, University of Texas at San Antonio, United States

Title: Multiscale characterization of microbiologically influenced corrosion on Copper-Nickel Alloy exposed to natural seawater

Vikram Kapoor, University of Texas at San Antonio, United States

Title: Impact of Zinc Oxide nanoparticles on nitrifying bacteria in soil

Mostafa Salimi, University of Modena and Reggio Emilia, Italy

Title: Aqueous naf on- platinum Interface for PEM fuel cells; An Ab- Initio perspective

Elizaveta Bogacheva, St. Petersburg State Institute of Technology, Russian Federation

Title: Study of adsorption properties of magnetic few- layer graphene

Osamah Mohammed Hazaea Hasan, Volgograd State Medical University, Russia Federation

Title: Nanotechnology applications in medicine

Velin Nikolov, Bulgarian Academy of Sciences, Bulgaria

Title: Glass- ceramics for emission in the IR region

Doohun Kim, Korea Electrotechnology Research Institute, South Korea

Title: Advanced interlayer structures as effective polysulfide barriers in lithium- sulfur batteries

Fadi Ibrahim Ahmed, Al-Shujaa bin Al-Aslam School, Kuwait

Title: Manufacture and use of a submarine with 3D artificial intelligence- engineered nano- polymer membranes to dually address water pollution in the Arabian Gulf and reduce CO₂ in Air

Carla Cisternas Novoa, Universidad de La Frontera, Chile

Title: Enhanced durability of antimicrobial activity in cotton textiles by L- Cysteine- Capped Copper Nanoparticles through laundering cycles

Priya Mahato, Indian Institute of Technology, India

Title: Understanding the impact of doping on the structural, hydrolytic, and thermal stability of HKUST- 1

Tushar Tyagi, National Forensic Sciences University, India

Title: Investigation of gold nanocluster conjugated with Gemcitabine for potent bioimaging and anti- cancer activity

Shreshtha Saxena, Dr. PDKV, Akola, India

Title: Enhancing UV stability of HaNPV with moringa- derived ZnO nanoparticles for sustainable agriculture

Suman Nayak, Indian Institute of Science-Bangalore, India

Title: Multiple phase separation of carbon dot- based fluorescent coacervate

Poster Presentations (Virtual)

Saroj K yadav, Chittagong Veterinary and Animals Sciences University, Bangladesh

Title: A goat model of a long bone fracture healing with cockle shell- based calcium carbonate bone paste

lotfi Benchallal, Bejaia university, Algeria

Title: First principle study of electronic and magnetic properties of small Nickel clusters Ni_n(n?15)

Poster presentation slots are available