

# 10<sup>th</sup> Edition of World Nanotechnology Conference

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

10-12<sup>TH</sup>  
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

**In-Person**

**Thomas J Webster, Hebei University of Technology, China**

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

**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 Morais, Catholic University of Brasilia, Brazil**

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

**In-Person**

**Ribal Georges Sabat, Royal Military College of Canada, Canada**

Title: Photonic metasurfaces in azobenzene materials

**Ana Maria Rincon, European Food Safety Authority, Italy**

Title: Regulatory safety assessment in the European Union of food additives containing nanoparticles

**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

**Mahfoudh RAISSI, LSBU, France**

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

**Makoto Sakurai, National Institute for Materials Science, Japan**

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

**Drishti, HKUST, Hong Kong**

Title: Azodye photoaligned nanolayers for liquid crystal devices

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

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

**Sravan Nayeka Gaikwad, Gulbarga University, India**

Title: Magneto-hydrodynamic convective instability in binary nanofluids with thermodiffusion for water (H<sub>2</sub>O) 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- 1) metal organic framework from electronic waste

**Shivani Bhati, Jawaharlal Nehru University, India**

Title: Paclitaxel and fisetin loaded RBC-PCL biomimetic nanofor-mulation 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

**Rajeshree Liya, Ahmedabad University, India**

Title: Effect of substitution over a series of Lanthanum Perovskites for oxygen evolution reaction

**Avinash Prabhakarrao 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 technolog

**Lovely Ranjta, AKS University, India**

Title: Nanocomposite gel polymer electrolytes: Benefic yet malefic

**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

**Khanyisile Ngcongco, University of KwaZulu-Natal, South Africa**

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

**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

**Mohd Mustafa Ahmad Basheer, University of Jordan, Jordan**

Title: Green nanotechnology: A game changer in water treatment

**Adel K. Mahmoud, University of Diyala, Iraq**

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

**Virtual**

**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

**Vladimir Chigrinov, HKUST, Hong Kong**

Title: Azodye photoaligned nanolayers for liquid crystal devices

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

## Tentative Program

### Oral Presentations

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

**Osman Adiguzel, Firat University, Turkey**

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

**Eze Jude Chibuzo, University of Nigeria, Nigeria**

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

**Shucayat Zeynalov, Azerbaijan Technical University, Azerbaijan**

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

**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

**Oral presentation slots are available**

### 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 nafion-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

**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

### Poster Presentation

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**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

*Virtual*

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**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

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**lotfi Benchallal, Bejaia university, Algeria**

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

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***Poster presentation slots are available***

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