

8TH EDITION OF

WORLD NANOTECHNOLOGY CONFERENCE

*Nanotechnology: Transcending All Limits by
Retrospection of Advances*



Our OCMs



KYOUNGTAE KIM
Missouri State University,
United States



HOSSEIN
HOSSEINKHANI
Innovation Center for Advanced
Technology, United States



XIAO HONG NANCY XU
Old Dominion University,
United States



THOMAS J WEBSTER
Hebei University of Technology,
China



DONGYANG LI
University of Alberta,
Canada



PAUL STANNARD
World Nano Foundation,
United Kingdom



ANTONIO VASSALLO
University of Basilicata,
Italy



THIERRY MEYER
EPFL, Switzerland



MARIO FERREIRA
University of Aveiro, Portugal



PAULO CESAR DE
MORAIS
Catholic University of
Brasilia, Brazil



OLGA E GLUKHOVA
Saratov State University,
Russian Federation

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
- Carbon nanotechnology
- Nanotoxicology



18-20

MAR 2024



Singapore

Hybrid Event



Contact us: Email: nanotechnology@magnusconference.com | <https://worldnanotechnologyconference.com/>

Phone: +1 (702) 988 2320 | Whatsapp: +1 (640) 666 9566

TENTATIVE PROGRAM

Keynote Presentations (In Person)

Hossein Hosseinkhani

Innovation Center for Advanced
Technology, United States

Title: Artificial intelligence (AI) in biomedical engineering

Thierry Meyer

EPFL, Switzerland

Title: Safety management for nanomaterials in research
environments

Thomas J Webster

Hebei University of Technology, China

Title: Introducing nanoporous metallic capsules for improved
stem cell delivery and function

Keynote Presentations (Virtual)

Kyoungtae Kim

Missouri State University, United States

Title: Interaction between actin and quantum dots

Paulo Cesar De Moraes

Catholic University of Brasilia, Brazil

Title: The Influence of nanomorphology in biological assays

Antonio Vassallo

University of Basilicata, Italy

Title: Nanotransporters for the release of bioactive molecules

Olga E Glukhova

Saratov State University,
Russian Federation

Title: Laser-welded carbon nanotubes-graphene hybrid
structures: modeling, formation, application

Oral Presentations (In Person)

Etelka Chung

University of Hertfordshire,
United Kingdom

Title: Antimicrobial properties of functionalized copper
nanoparticles doped with gold nanoclusters

Igor Reshetov

Sechenov University, Russian Federation

Title: Functional surface films for individual reconstructive
implant in maxillofacial surgery

Wolfgang Ensinger

Technical University of Darmstadt,
Germany

Title: A biomolecular sensors for medical diagnostics based on ion
conducting nanochannels in polymer membranes

Antonio Pantano

University of Palermo, Italy

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

Flora Maitim Yrad

Silliman University, Philippines

Title: Functionalization of Dextrin-capped gold nanoparticles
with Oligodeoxynucleotides

Yasuhiro Kimura

Nagoya University, Japan

Title: Atomic migration-driven metal nanowire growths

Naoki Azuma

Nagoya University, Japan

Title: Manipulation and analysis of large DNA molecules using
micro/nanogap structures

TENTATIVE PROGRAM

Yurim Lee Chungnam National University, Korea Republic Of	Title: Development of boron nitride nanotube-based additives to improve ionic conductivity and thermal stability for High-Performance Li-Ion Batteries
Shinyoung Lee Chungnam National University, Korea Republic Of	Title: Advanced non-woven separator membrane by syringeless electrospinning for high-performance lithium-ion energy device
Rizwan Ali Univeristy of Science and technology of China, China	Title: CD44-Targeting ligand based pH responsive nanoscale drug delivery and imaging platform
Jinshun Bi Chinese Academy of Sciences, China	Title: Nanoscale air channel devices for emerging IC applications
Lianjie Zhu Tianjin University of Technology, China	Title: Designable synthesis of TiO ₂ nanostructures/composites and photocatalytic applications
Angyang Yu Chinese Academy of Sciences, China	Title: Stability and aromaticity of some superatomic compounds Al ₃ -M (M = Li, FLi ₂ , OLi ₃ , NLi ₄)
Bei Liu Southern University of Science and Technology, China	Title: Synergistic effects of organic ligands and visible light on the reductive dissolution of CeO ₂ nanoparticles: Mechanisms and implications for the transformation in plant surroundings
Carmen Socaciu SC PROPLANTA SRL, Romania	Title: Pentacyclic Triterpenoid nano formulations as bioavailable drug delivery agents at cellular level
Raghvendra Kumar Mishra Amity Institute of Biotechnology, India	Title: Role of physical and chemical factors in bioengineering of green nanoparticles under in-vitro conditions
A D Sheena VISTAS, India	Title: Analyzing the pollutants present in groundwater using computational methods
Harsh D Patel The Maharaja Sayajirao University of Baroda, India	Title: CO ₂ separation through different blends of PS/PDMS polymers for food and beverage industry
Likhi Dhruv Indian Institute of Technology, India	Title: Sodium alginate-CuS nanostructures synthesized at the gel-liquid interface: an efficient Photocatalyst for Redox Reaction and Water Remediation
Arvind Kumar National Institute of Technology Hamirpur, India	Title: Synthesis, characterization, and applications of carbon quantum dots
Ashita Anand TERI Deakin Nanobiotechnology Centre, India	Title: Development and characterization of controlled release nano-fertilizer
Mohammad Al Mamun Jagannath University, Bangladesh	Title: Differential pulse voltammetric tuning of the screen printed carbon electrode surface to enhance the electrochemical performance and multiplex detection
Jamal M. Khaled King Saud University, Saudi Arabia	Title: Is air a potential resource of multidrug-resistant acinetobacter baumani complex: A survey study of aeroplankton

TENTATIVE PROGRAM

Fahd A. AL-Mekhlafi King Saud University, Saudi Arabia	Title: Larvicidal potential of gold and silver nanoparticles synthesized using acalypha fruticosa leaf extracts against culex pipiens (Culicidae: Diptera)
Fadilah Sfouq Aleanizy King Saud University College of Pharmacy, Saudi Arabia	Title: Antibacterial and anti-quorum sensing activity of PAMAM G4 loaded quorum quencher peptide against MRSA, staphylococcus aureus and AGR mutants
Waseem Mansour Washington University of Health and Science, Saudi Arabia	Title: Stable and Reusable Heterogenized Pd-bis(NHC) Catalysts for Carbonylative Sonogashira Reacti
Abdelhamid El kaaouachi Sciences Ibn Zohr of Agadir, Morocco	Title: Magnetoconductivity (MC) behavior due to electron-electron interactions, weak localization, and Zeeman effects in 2D layered WS2
Tshireletso Madumo University of South Africa, South Africa	Title: Development of nitrogen-doped graphene/MOF nanocomposites towards adsorptive removal of CR (VI) from the wastewater of the herbert bickley treatment works
Ncediwe Tsolekile Cape Peninsula University of Technology, South Africa	Title: Novel synthesis of quaternary Zn-Cu-In-S/ZnS QDs-mTHPP porphyrin conjugate for photodynamic therapy and antibacterial activity
Deepak Dabur National Sun Yat sen University, Taiwan	Title: Synergistic effect based novel and ultrasensitive approach for the detection of serotonin using DEM-modulated bimetallic nanosheets
Nabaa Kamal Badawi University of Bahri, Sudan	Title: Seeds extract (Trigonella Foenum-Graecum) grown in sudan and their antimicrobial mechanism
Ismaila yahaya Federal Polytechnic Kazaure Jigawa, Nigeria	Title: Production of oil paint using water melon oil as an alkyd resin
Azeez Abdullah Barzinjy Soran University, Iraq	Title: Eutectic-based ionic liquids: A novel medium for synthesizing metal and metal oxide nanoparticles
Aliya Fazal Fatima Jinnah Women University, Pakistan	Title: Utilization and treatment of coal resources of Pakistan for energy competence and environmental care
Sidra saeed National Institute of Health, Pakistan	Title: Glycol chitosan amphiphile nanotheranostic system for ultrasound-mediated localized release and biodistribution of doxorubicin
Saif Ullah Awan National University of Sciences and Technology, Pakistan	Title: Optimized time dependent exfoliation of graphite for fabrication of graphene/Go/Gro Nanocomposite based PseudoSupercapacitor

TENTATIVE PROGRAM

Oral Presentations (Virtual)

Ashok Kumar University of South Florida, United States	Title: Nanocrystalline diamond: Synthesis, characterization and applications
Buenker Robert J University of Wuppertal, United States	Title: The failure of both Einstein's space-time theory and his equivalence principle and their resolution by the uniform scaling method
Vasyl G. Kravets The University of Manchester, United Kingdom	Title: High sensitive biosensor based on topological darkness in hybrid thin film-graphene nanostructures
Sheyda Labbaf Anglia Ruskin University, United Kingdom	Title: Conductive nanocomposite scaffolds containing graphene for neural tissue engineering
Charles Ivan Salanga Saint Louis University, Philippines	Title: Chemical Engineers in the face of cosmetics, cosmeceuticals and nutraceuticals: An overview
A B M Sharif Hossain University of Malaya, Malaysia	Title: Production and application of nanocellulose based nano-biopolymer derived from plant lignocellulose as tissue engineering biomaterials and drug delivery
Valyaev Alexander Nuclear Safety Institute RAS, Russian Federation	Title: Application of nanotechnology for treatment of human bone joints with severe injuries
Aleksandr Ya. Khavkin Lomonosov Moscow State University, Russian Federation	Title: Prospects of carbon nanoenergy
Shpigun Denis Lomonosov Moscow State University, Russian Federation	Title: Chirality of protein structures
Angyang Yu Dalian Institute of Chemical Physics, China	Title: Density functional theory calculations for mechanical properties and phase transition of ZnS
Mirza Muhammad Faran Hong Kong University of Science and Technology, China	Title: Recent advances of magnetic gold hybrids and nanocomposites and their potential biological applications
Jun Li Southeast University, China	Title: In-situ growth of nanomaterials on recycled fine aggregates improves the fluidity and mechanical properties of recycled concrete
Vladimir Chigrinov University of Science and Technology, Hong Kong	Title: Azodye photoaligned nanolayers for liquid crystals devices
Laura Elena Mureşan Babes-Bolyai University, Romania	Title: The importance of optimizing the synthesis conditions for obtaining pure ZnO-NP
J Bagyalakshmi Sri Ramakrishna Institute of Paramedical Sciences, India	Title: Pharmacokinetic interactions study of green synthesized silver nanoparticles of Pterocarpus marsupium with antidiabetic drugs

TENTATIVE PROGRAM

Mahavir Singh Himachal Pradesh University, India	Title: Magnetizing the future: Hard ferrite and soft magnetic synergy in EVs
Sumit Kumar Gupta University of Technology, India	Title: Design and simulations of a carbon-based microstrip antenna for THz frequency and its application for wireless communication
Shagufta Bi IFTM University Moradabad, India	Title: Biogenic synthesis of nanoparticles and its antifungal and antibacterial applications
Eknath Kole University Jalgaon, India	Title: Cross-linked chitosan-dextran sulfate nanoparticles for vildagliptin encapsulation: QbD optimization and in vitro antidiabetic efficacy
Abdelmjid Bouazizi Moulay Ismail University of Meknes, Morocco	Title: Development and evaluation of a high performance tubular nanofiltration membrane incorporating TiO ₂ -doped ZrO ₂ on Pozzolan support for filtration of dyes and heavy metal solutions
Katekani Shingange Mintek, South Africa	Title: Experimental and DFT calculations of ethylene detection performance of Co ₃ O ₄
Igor Smirnov Global Quantech Ltd, Cyprus	Title: MRET activated water and its successful application for prevention treatment and enhanced tumor resistance in animal oncology models
Chung-Yuan Kung Taiwan Chung Hsing University, Taiwan	Title: The definition of unlimited, pentagonal shape penrose tile that is defect free
Ghazal Tuhmaz ALBAATH University, Syrian Arab Republic	Title: The effect of Curcumin powder and cloves oil on the properties of fibers produced by electrospinning technique
Raymond Jagessar University of Guyana, Guyana	Title: Porphyrin based nanomaterials
Raymond Jagessar University of Guyana, Guyana	Title: Nanotechnology: Advancing material science and medicine
Yaser Ahmed Ali Al-Shataif University of Science and Technology, Yemen	Title: Microstructure and mechanical properties of high entropy alloys prepared by mechanical alloying
Sadiq Hassan Khoreem UAl-Razi University & Saada University, Yemen	Title: The Impact of Zn ²⁺ Ions on dielectric properties and initial permeability of Ba-Ni Ferrite nanoparticles through nonmagnetic doping
Faouzi Nasri CRMN Sousse, Tunisia	Title: A comparative performance analysis of electrical and thermal characteristics of SOI FinFET and gate-all around FET nano devices
Ayad Al Thuwaynee Babylon University, Iraq	Title: Outstanding flame approach for production Ferric Oxide (Fe ₂ O ₃) nanoparticles
Aliya Fazal Fatima Jinnah Women University, Pakistan	Title: Utilization and treatment of coal resources of Pakistan for energy competence and environmental care

Oral Presentation slots are available

TENTATIVE PROGRAM

Poster Presentations (In Person)

Liping Ge The University of Sydney, Australia	Title: Optimisation and artifacts of photothermal excitation of microresonators
Marylyn Setsuko Arai University of Sao Paulo, Brazil	Title: Portable luminescent sensor for kidney health monitoring based on upconversion nanoparticles
Lu Zhou University of Macau, China	Title: Design of ion current and fluorescence dual-signal nanochannel sensors for effective and reliable detection
Vishakha Goswami Indian Institute of Technology, India	Title: Nanocarriers for the delivery of quercetin to inhibit the UV-induced aggregation of D-crystallin
Anurag Kumar Pandey IIT Kharagpur, India	Title: Iodine-doped carbon dots as a nanocatalyst for degradation of cationic dyes
Janet Chepkirui Former employee of Semiconductor Technologies Limited, Kenya	Title: Synthesis of nanotubes for enhanced nanotechnology and semiconductor communication
Zhadyra KazNU, Kazakhstan	Title: Prospects for the practical use of fullerenes (Fullerenols)

Poster Presentations (Virtual)

Goban Kumat Panneer Selvam Miguel Bernard 503, Mexico	Title: Comparative study of thin film tin oxide and copper-doped tin oxide films for propane gas sensors
Shuai He Huaiyin Institute of Technology, China	Title: Bibliometric and visual analysis of nanoenzymes in food-related applications: A comprehensive study
Katyayani Agarwal Delhi Technological University, India	Title: Nanoparticle mediated magneto mechanical stimulation for enhancing tissue regeneration in musculoskeletal medicine
Fakhraddin Pasha Abasov Institute of Radiation Problems Ministry of Science and Education, Azerbaijan	Title: Degradation of silicon two-barrier thin film structures for solar cells under influence of ionization radiation

Poster Presentation slots are available