

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,
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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



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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

Antonio Vassallo

University of Basilicata, Italy

Title: Nanotransporters for the release of bioactive molecules

Paulo Cesar De Moraes

Catholic University of Brasilia, Brazil

Title: The Influence of nanomorphology in biological assays

Olga E Glukhova

Saratov State University,
Russian Federation

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

Oral Presentations (In Person)

Wolfgang Ensinger

Technical University of Darmstadt,
Germany

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

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

Flora Maitim Yrad

Silliman University, Philippines

Title: Functionalization of Dextrin-capped gold nanoparticles
with Oligodeoxynucleotides

Carmen Socaciu

SC PROPLANTA SRL, Romania

Title: Pentacyclic Triterpenoid nano formulations as bioavailable
drug delivery agents at cellular level

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

TENTATIVE PROGRAM

Shinyoung Lee Chungnam National University, Korea Republic Of	Title: Advanced non-woven separator membrane by syringeless electrospinning for high-performance lithium-ion energy device
Aamir Sohail Aligarh Muslim University, India	Title: Effect of nanoparticles on the structure and function of bovine heart cystatin
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
Ivan Padron Ramirez Center of Technological Applications and Nuclear Development, Cuba	Title: Gas adsorption on carbon nano-onions
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
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
Ainur Sharip King Abdullah University of Science and Technology, Saudi Arabia	Title: Encapsulation and delivery of a five-step biosynthesis pathway in a porous Metal-Organic framework
Ahmad Ayesh Qatar University, Qatar	Title: Investigation of MoSe ₂ utilization for selective gas adsorption
Sidra saeed National Institute of Health, Pakistan	Title: Glycol chitosan amphiphile nanotheranostic system for ultrasound-mediated localized release and biodistribution of doxorubicin
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

TENTATIVE PROGRAM

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
Nabaa Kamal Badawi University of Bahri, Sudan	Title: Seeds extract (<i>Trigonella Foenum-Graecum</i>) grown in sudan and their antimicrobial mechanism
Azeez Abdullah Barzinjy Soran University, Iraq	Title: Eutectic-based ionic liquids: A novel medium for synthesizing metal and metal oxide nanoparticles
Ismaila yahaya Federal polytechnic kazaure jigawa, Nigeria	Title: Production of oil paint using water melon oil as an alkyd resin

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
Pelin Berik Giwa University of Central Florida (UCF), United States	Title: Nanotechnology applications in space technology
Charles Ivan Salanga Saint Louis University, Philippines	Title: Chemical Engineers in the face of cosmetics, cosmeceuticals and nutraceuticals: an overview
Laura Elena Mureşan Babes-Bolyai University, Romania	Title: The importance of optimizing the synthesis conditions for obtaining pure ZnO-NP
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
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

TENTATIVE PROGRAM

Vladimir Chigrinov

University of Science and Technology,
Hong Kong

Title: Azodye photoaligned nanolayers for liquid crystals devices

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

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

Aliya Fazal

Fatima Jinnah Women University, Pakistan

Title: Utilization and treatment of coal resources of Pakistan for energy competence and environmental care

Abdelmjid Bouazizi

Moulay Ismail University of Meknes,
Morocco

Title: Development and evaluation of a high performance tubular nanofiltration membrane incorporating TiO₂-doped ZrO₂ on Pozzolan support for filtration of dyes and heavy metal solutions

Ayad Al Thuwaynee

Babylon University, Iraq

Title: Outstanding flame approach for production Ferric Oxide (Fe₂O₃) nanoparticles

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

Oral Presentation slots are available

Poster Presentations (In Person)

Kanchan Meena

S. N. Bose National centre for Basic
Sciences, India

Title: Multiple manifestations of negative local partial density of states

Ashita Anand

TERI Deakin Nanobiotechnology Centre,
India

Title: Development and characterization of controlled release nano-fertilizer

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)

TENTATIVE PROGRAM

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

Katyayani Agarwal

Delhi Technological University, India

Title: Nanoparticle mediated magneto mechanical stimulation for enhancing tissue regeneration in musculoskeletal medicine

Shuai He

Huaiyin institute of technology, China

Title: Bibliometric and visual analysis of nanoenzymes in food-related applications: A comprehensive study

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