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WORLD NANO 2027

12TH EDITION OF

WORLD

NANOTECHNOLOGY CONFERENCE

HYBRID EVENT

18-20
MARCH 2027

COME AND JOIN US IN:

SINGAPORE OR VIRTUALLY

TENTATIVE PROGRAM

CONFERENCE TOPICS

- Nanomaterials: Design & Synthesis
- 2D Materials, Graphene & Carbon Nanotechnology
- Nanomedicine, Imaging & Theranostics
- Nanotechnology for Energy Conversion & Storage
- Nanoparticles, Nanostructures & Nanocomposites
- Nanocarriers, Drug Delivery & Therapeutics
- Nanosensors, Biosensors & Diagnostics
- Nanoelectronics & Semiconductor Technologies
- Computational Nanotechnology, Modeling & AI
- Nanophotonics, Plasmonics & Metamaterials
- Nanobiotechnology & Biointerfaces
- Nanofabrication, Nanoengineering & Nanomanufacturing
- Nanometrology & Advanced Characterization
- Environmental & Sustainable Nanotechnology

Theme:
Advancing Nanotechnology for Innovation and Future Technologies

+1 (702) 988-2320 +1 (640) 666-9566 | https://worldnanotechnologyconference.com/

Keynote Speakers



Thomas J. Webster
Brown University, United States



Osman Adiguzel
Firat University, Turkey



Paulo Cesar De Morais
Catholic University of Brasilia, Brazil



S V A R Sastry
Harcourt Butler Technical University, India



Raman Singh
Monash University, Australia



Alexander G. Ramm
Kansas State University, United States



Julia Xiaojun Zhao
University of North Dakota, United States



Mahendra Patel
Indian Pulp and Paper Technical Association, India



Brahim Attaf
Independent Researcher in Composite Materials and Structural Engineering, France



Ramesh Agarwal
McKelvey School of Engineering, Washington University in St. Louis, United States



Khavkin Aleksandr
Peoples' Friendship University of Russia (RUDN), Russian Federation

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KEYNOTE PRESENTATIONS

Title: Fighting antibiotic resistance: Eliminating implant infections in humans without antibiotics

Thomas J. Webster, Brown University, United States

Title: Shape memory phenomena and twinning detwinning reactions governing reversibility in shape memory alloys

Osman Adiguzel, Firat University, Turkey

Title: Metal oxide nanomaterials as photocatalysts

Paulo Cesar De Morais, Catholic University of Brasilia, Brazil

Title: Nano lubricant enhancement through hydrothermal synthesis of 2D nanoparticles: A pathway to reduced wear and enhanced efficiency

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

Title: Pristine graphene coatings on metals: A disruptive approach to remarkable and durable corrosion

Raman Singh, Monash University, Australia

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

Alexander G. Ramm, Kansas State University, United States

Title: Fluorescent nanomaterials for bioapplications

Julia Xiaojun Zhao, University of North Dakota, United States

Title: Synergising nanocellulose as “The Material of the Millennium”

Mahendra Patel, Indian Pulp and Paper Technical Association, India

Title: Reliability assessment and stress analysis of wind turbine blades under hygro-thermo-mechanical loading using hybrid composites reinforced with carbon nanotube fibres

Brahim Attaf, Independent Researcher in Composite Materials and Structural Engineering, France

ORAL PRESENTATIONS

Title: Magneto-mechanical driven nanomagnets for cancer therapy: Bypassing hyperthermia

Ahmed A. El-Gendy, University of Texas at El Paso, United States

Title: Optimized eco-friendly nanoparticles for sustainable agriculture: Stability enhancement with organic acids for fertilizer delivery

Sana Awan, Florida International University, United States

Title: The role of micro-nanobubbles in dissolved air flotation for the removal of micropollutants in drinking water treatment

Sayyad Muhammad Ali Rizvi, Cranfield University, United Kingdom

Title: Quantum computing at Landau levels in nanographite films

Sergey G. Lebedev, Institute for Nuclear Research of Russian Academy of Sciences, Russian Federation

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Title: System and method for advanced photothermal neutralization of Unmanned Aerial Vehicles (UAVs) via azaphthalocyanine nanocomposites and cross-axis dual-spectrum tracking

Fadi Ibrahim, Al Shujaa ibn Al Aslam School, Kuwait

Title: Carbon nanotube-based nanoplatforms in precision oncology: Emerging strategies for targeted anticancer drug delivery

Oeda Lekaj, Albanian University, Albania

Title: Dual-targeted nanodiscs revealing the cross-talk between osteogenic differentiation of mesenchymal stem cells and macrophages

Bobin Mi, Huazhong University of Science and Technology, China

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Title: Biomimetic bone-matrix-inspired functionalized 3D-printed hydrogel scaffolds for ischemic and hypoxic mandibular bone regeneration

Rong Tang, West China Hospital of Stomatology, Sichuan University, China

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Title: Peanut testa residue for natural dyeing and functional finishing of citric acid-modified linen fabric using copper nanoparticles

Seiko Jose, ICAR - Central Sheep and Wool Research Institute, India

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Title: Surface functionalization of zinc oxide nanoparticles with ricinoleic acid and methenamine: Enhanced optoelectronics and antibacterial properties

Shashi Bhushan Rana, Guru Nanak Dev University Regional Campus, India

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Title: Effect of active-layer thickness on the electrical response of a BFO–PDMS composite nanogenerator at 25 wt% BFO loading

Ranbir Singh, BML Munjal University, India

Title: Metal oxide wrapped conducting polymer nanocomposites for advanced technological applications

Sankar S Menon, St. Micheals College, India

Title: Advanced synthesis of transition metal oxide quantum dots: A novel approach to tailoring their physical properties

Dibya Jyoti Borah, Majuli College, India

Title: Formulation and evaluation of nanoparticulate system for cancer therapy

Dharmendra Kumar, Orlean College of Pharmacy, India

Title: $BiFeO_3$ nanoparticles-enhanced gel polymer electrolytes [PVA: NH4CH3COO] system: Optimization of ionic conductivity, structural properties and thermal stability

Lovely Ranjta, Gruner India Pvt. Ltd., India

Title: Sustainable electrochemical nanosensing using corn silk-derived nanomaterials

Monika Kundu, ICAR-Indian Agricultural Research Institute, India

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Title: Synthesis of Fe-grown carbon nanofibers supported on porous carbon beads for the elimination of methylene blue, cadmium, and lead from aqueous and river water matrices

Anmol Pandey, Indian Institute of Technology Kharagpur, India

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Title: Gram flour carbon dots: A dual-mode on-off sensor for antibiotics

Mareechika Gaddam, National Institute of Pharmaceutical Education and Research, India

Title: Curcumin arbitrated silver nanoparticles as active substances in the biodegradable active packaging for preserving the biochemical properties of white meat

Muhammad Jamshed Khan, Bahauddin Zakariya University, Pakistan

Title: Synthesis and comparative evaluation of lignin/chitosan-based copper and iron oxide nanocomposites for the adsorptive removal of reactive red and reactive blue dyes from aqueous solutions

Madeeha Jabeen, Bahria University, Pakistan

Oral presentation slots are available

POSTER PRESENTATIONS

Title: Advanced 3D nanofibrous yarn-based biomass carriers for anaerobic biotechnological applications

Karel Havlicek, Technical University of Liberec, Czech Republic

Title: 3D nanofibrous biomass carriers for support and intensification of anaerobic biotechnological processes: Molecular characterisation of microbial consortium by qPCR and NGS

Magda Nechanická, Technical University of Liberec, Czech Republic

Title: Laser-induced functionalization of flexible polyimide-carbon fiber for real-time multimodal physiological monitoring of chronic wounds

Tahir Raza, Fudan University, China

Title: Electrical reconfiguration of photodetector frequency response through controlled photoresponse superposition

Hao Wu, Southeast University, China

Title: Physical properties of nano-scaled silver in boron nitride matrix; Magnetization in small silver nanoparticles: FT study

Awadelkarim Mohamed Ismail Ibrahim, UNESCO-UNISA Africa Chair in Nanosciences-Nanotechnology, South Africa

Title: Biosynthesis of zirconium dioxide nanoparticles using ethanol extract of mountain ebony (Bauhinia variegata) pod at 700 °C and its antifungal application

Oduntan Abiodun Samuel, Federal University of Technology Akure, Nigeria

Poster presentation slots are available