



World Congress on

NANOSCIENCE AND NANOTECHNOLOGY

November 10-11, 2024 | Zoom

Theme:

“Evaluating the new Strategies and Solutions for
Nanoscience & Nanotechnology”

Nanotech 2024

<https://nanotech.mindauthors.com/>

SCIENTIFIC AGENDA

DAY-1

November 10, 2024

VIRTUAL CONFERENCE

Day 1 (Greenwich Mean Time)

Time	Name & Affiliation	Title
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9:20 - 09:30 Introduction & Opening Ceremony

Keynote Presentations

9:30 - 10:00	Prof. Wenbo Peng <i>Xi'an Jiaotong University, China</i>	Piezo-Phototronic Effect in Multi-Layer Structured Optoelectronic: Bilateral Piezoelectric Charge Modulation
10:00-10:30	Prof. Junhui Hu <i>Nanjing University of Aeronautics and Astronautics, China</i>	Ultrasonic micro/nano/molecular actuation based on the bulk acoustic wave
10:30- 11:00	Prof. You Qiang <i>University of Idaho, Moscow</i>	Nano-Watermelon: Synthesis, Nanostructure, Nanomagnetism and Applications
11:00-11:30	Prof. Orlando Auciello <i>University of Texas at Dallas,US</i>	Review of Materials Science and Technological Applications of a Transformational Multifunctional Ultrananocrystalline Diamond (UNCDTM) Coating

11:30 -11:50 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

11:50 -12:10	Prof. Peter van den Engel <i>Delft University of Technology, Netherlands</i>	Optimization of Air-to-PCM batteries in Air Handling Units
12:10- 12:30	Prof. Agnieszka Michalska <i>Poznan University of Medical Sciences, Poland</i>	Fighting With Fires of Forests and Garbage Dumps With More Eco-Friendly Systems to Avoid Pfas (Polyfluoroalkyl Substances)
12:30-12:50	Prof. Maria Luisa De Giorgi <i>Università del Salento, Italy</i>	Environment-Induced Reversible Modulation of Amplified Spontaneous Emission in CSPBBR3 Nanocrystals Thin Films
12:50 -13:10	Dr. Zdenka Fohlerova <i>Brno University of Technology, Czech Republic</i>	Micro- And Nanostructured Surfaces: From Fabrication to Application

13:10- 13:30 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

13:30-13:50	Prof. Ryszard Kozłowski <i>Institute of Natural Fibres and Medicinal Plants poland</i>	The Latest News About Hemp Cultivation and Application in Medicine, Textile, Composites, Building Industries, in Other Areas Including Recultivation of Polluted Lands
13:50 -14:10	Prof. Kajetan Pyrzyński <i>Delta Innovative Company, Poland</i>	Effective intumescent coatings for increased flame retardancy of lignocellulosic and composite materials

14:10- 14:30	Prof. William Skene <i>Université de Montréal, Canada</i>	Understanding the Effect of Molecular Structure on Smart Window Performance
14:30 - 14:50	Attila Tamas Szenasi <i>University of North Carolina at Chapel Hill, United States</i>	Redox Reprogramming by SOD1 Knockdown: A Novel Liposomal siRNA Strategy to Overcome Platinum Resistance in Ovarian Cancer

14:50 - 15:10 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

15:10-15:30	Prof. Roger M. Leblanc <i>University of Miami, USA</i>	Carbon Dots as Novel Drug Delivery Systems in Modern Medical HealthCare
15:30-15:50	Dr. Maria Cecilia COLAUTTI <i>National Defense University of Republic of Argentina</i>	Microplastics and nanoplastics in the Antarctic Peninsula. Considerations on its impact on ecosystems and human health and possible mechanisms of nanotoxicity

Poster Presentations

15:50-16:05	Dr. Nina Ivanova <i>National Academy of Medical Sciences of Ukraine</i>	The Treatment Alzheimer's Disease by the Lipochrom
16:05-16:20	Dr. Mami Iwasaki <i>University of Toyama, Japan</i>	Biomimetic Surface Structure Inspired by Broccoli Romanesco With Fractal Geometry

***** End of Day 1 *****

SCIENTIFIC AGENDA

DAY-2

November 11, 2024

VIRTUAL CONFERENCE

Day 2 (Greenwich Mean Time)

Time	Name & Affiliation	Title
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09:20 - 09:30 Introduction & Opening Ceremony

Keynote Presentations

9:30 - 10:00	Dr. Gil Shalev <i>Northeastern University, China</i>	Label-Free Sensing With a Novel Biologically-Modified Field- Effect Transistor
10:00-10:30	Prof. Magnus S Magnússon <i>University of Iceland, Iceland</i>	Human Social Organization Paradigm Change: From the RNA World to Human T-societies and AI
10:30-11:00	Prof. Thomas J. Webster <i>Hebei University of Technology, China</i>	A Review of Nanomaterials in Humans: Zero Implant Failures
11:00-11:30	Prof. Hsing-Yu Tuan <i>National Tsing Hua University, Taiwan</i>	High-Performance Potassium-Ion Battery Materials

11:30-11:50 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

11:50 -12:10	Prof. Wenbo Peng <i>Xi'an Jiaotong University, China</i>	Piezo-Phototronic Effect in Multi-Layer Structured Optoelectronic: Bilateral Piezoelectric Charge Modulation
12:10 - 12:30	Prof. Ernst Wagner <i>Ludwig-Maximilians-Universität, Germany</i>	Novel nanomaterials for RNA delivery
12:30 -12:50	Prof. Venko Beschkov <i>Institute of Chemical Engineering, Bulgarian Academy of Sciences, Bulgaria</i>	Catalysis Doped by Nanoparticles of Metal Oxides in Liquid Phase Fuel Cell and Electrolysis Applications-Some Examples
12:50 -13:10	Prof. Vladimir G Plekhanov <i>Fonoriton Science Lab, Estonia</i>	Prospects for Isotope Materials Science

13:10-13:30 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations

13:30-13:50	Prof. Osman Adiguzel <i>Firat University, Turkey</i>	Diffusionless Phase Transformations and Memory Characteristics of Shape Memory Alloys
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13:50-14:10	Prof. Vladislav Bogdanov <i>National Transport University, Ukraine</i>	About Plane Non-stationary Problem of Interaction With Base With a Triangle Shape Welded Joint in Elastic-Plastic Formulation
14:10 - 14:30	Dr. Ying Yu <i>Central China Normal University, China</i>	Rapid self-reconstruction of pre-electrocatalysts for efficient and stable large current-density water/seawater splitting

14:30 - 14:50 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Poster Presentations

14:50-15:05	Dr. Shaolin Hu <i>Guangdong University of Petrochemical Technology, Maoming, China</i>	Monitoring and Identification for Intermittent Faults and Trend Distortions in Rotating Machinery
15:05-15:20	Prof. Yaohua Zhu <i>Hong Kong Polytechnic University, China</i>	Electropulsing Induced Phase Transformations and Their Practical Applications of Thin Films of Tco and Te Semiconductors
15:20-15:35	Edgar Harzfeld <i>Stralsund University of Applied Sciences, Germany</i>	Modeling and Simulation of Nanostructured Components
15:35-15:50	Dr. Chenyu Zhang <i>Northeastern University, China</i>	Antiferromagnetic Fourfold Anisotropy Induced Exchange Bias and Magnetization Reversal Behaviors in Cofeb/Irmn Bilayers

***** End of the Conference *****