



World Congress on

NANOTECHNOLOGY AND ADVANCED MATERIALS

Theme:

Advancing Nanomaterials
Research for Future Technologies

Dates:

September 14 & 15, 2026 (In-Person)

September 16, 2026 (Virtual Via Zoom Platform)

Venue:-

Movenpick Hotel Budapest Centre, Hungary

NBC (NanoBudapest-2026)

<https://nanotechconferences.annualforums.com>

TENTATIVE AGENDA

DAY- 1-3

September 14, 15 & 16, 2026

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Tentative Agenda

Introduction & Opening Ceremony

Keynote Presentation

Prof. Win-long Chia	<i>Fu Jen Catholic University, Taiwan</i>	A Lifetime on Synthesis of Nitrogen-Containing Liquid Crystals in Taiwan
Prof. Show-An Chen	<i>National Tsing Hua University, Taiwan</i>	Molecular Design on Semiconductive Polymers for Opto-Electronics Interconversion with High Device Performance
Prof. Cristina Satriano	<i>University of Catania, Italy</i>	Multipurpose Hybrids Beyond Graphene with Plasmonic Nanoparticles and Magnetite for Theranostics and Sustainable Environmental Applications
Prof. Masahiro Miyauchi	<i>Institute of Science Tokyo, Japan</i>	Semiconductor-Based Photocatalyst for Gas-Phase CO₂ Reduction
Prof. Joseph H. Koo	<i>The University of Texas at Austin, USA</i>	Novel Fiber-Reinforced Polysiloxane Composites for Extreme Aerospace Applications
Prof. Jacob Gavan	<i>Holon Institute of Technology, Israel</i>	Power Beaming for Commercial Solar Energy and Defense Applications
Prof. Yukiharu Uraoka	<i>Nara Institute of Science and Technology, Japan</i>	High Performance Metal Oxide Thin Film Transistor using ALD Method
Prof. Lev S. Rapoport	<i>Holon Institute of Technology, Israel</i>	Crystal Plasticity of FCC Metals Under Steady-State and Instable Friction
Prof. Bun Tsuchiya	<i>Meijo University, Japan</i>	Hydrogen Absorption and Desorption Characteristics of Li_xCoO_2 Positive Electrode Materials in Li^+ Ion Rechargeable Batteries
Prof. Tohru Higuchi	<i>Tokyo University of Science, Japan</i>	Clean Energy Device Using Oxide Superionic Conductor Solid Electrolyte Thin Film
Dr. José L. OCAÑA	<i>Universidad Politécnica de Madrid, Spain</i>	Laser Shock Processing: An Advanced Technique for the Enhancement of the Fatigue Life and Mechanical Performance of Strategic Metallic Materials
Dr. Sven Simon	<i>University of Stuttgart, Germany</i>	The AI Revolution in Laboratory and Synchrotron X-ray Computed Tomography
Prof. Andrea Lamberti	<i>Politecnico Di Torino, Italy</i>	Electrochemistry at the Nanoscale: Powering Sustainable Energy Harvesting and Storage for Industrial Applications
Prof. Brigita Rožič	<i>Jožef Stefan Institute, Slovenia</i>	Liquid Crystal-Based Caloric Materials for Green Cooling Technologies

Prof. Benigno Rodriguez Diaz	<i>Universidad de la República, Uruguay</i>	The Design of More Efficient Antennas as a Strategy for Climate Change Mitigation
Prof. Anita-Ioana Visan	<i>National Institute for lasers, plasma and radiation physics, Romania</i>	Bioinspired and Biomimetic Nanomaterials as Coatings for Advancing Nanomedicine
Prof. Irina Negut	<i>National Institute for lasers, plasma and radiation physics, Romania</i>	Thin Films deposited by Matrix-Assisted Pulsed Laser Evaporation for Tissue Engineering Applications
Mr. Albin Kälin	<i>CEO epeaswitzerland gmbh, Switzerland</i>	Cradle to Cradle Design Innovations
Prof. Junhui Hu	<i>Nanjing University of Aeronautics & Astronautics, China</i>	Ultrasonic Enhancement and Fabrication of Gas Sensors
Prof. Jiandong Guo	<i>Chinese Academy Of Sciences, China</i>	Growth of Ultrathin CrxTey Films and Their Magnetism in the Two-Dimensional Limit
Prof. Tatiana E. ITINA	<i>CNRS, Université Jean Monnet, France</i>	From Ultrafast Laser Excitation to Functional Nanomaterials: Multiscale Insights
Prof. Changguo Wang	<i>Harbin Institute of Technology, China</i>	Thermal Nonreciprocity in Wrinkled Graphene
Prof. Zhengjun Zhang	<i>Tsinghua University, China</i>	From Ultrafast Laser Excitation to Functional Nanomaterials: Multiscale Insights
Dr. Héctor Hugo Pérez Garza	<i>DENSsolutions BV, The Netherlands</i>	Next-Generation Environmental In Situ System for Correlative Research Across TEM, SEM, and Synchrotrons
Prof. Jiong Zhou	<i>Northeastern University, China</i>	Macrocycle Co-Crystal Materials
Prof. Yoed Tsur	<i>Technion, Israel</i>	The Doping Factor Approach in Solid State Ionics
Prof. Olivier BONNAUD	<i>University of Rennes, France</i>	The Future of Higher Education in Microelectronics and Nanotechnology in the Evolving Digital World: Role of the Materials
Prof. Cong Wang	<i>Beihang University, China</i>	Strain Regulation of the Magnetic Structures and Properties in Antiperovskite Antiferromagnetic Mn₃XN(C) Compounds
Prof. Mineo Hiramatsu	<i>Meijo University, Japan</i>	Engineering Three-Dimensional Graphene Architectures by Plasma Processes for Advanced Carbon Materials

Prof. Anelie Petrissans	<i>Université de Lorraine, France</i>	Wood Torrefaction: An Innovative Production of Sustainable Material. Influencing Factors and Scale up From Laboratory to Industrial Process
Dr. Michael Zharnikov	<i>Heidelberg University, Germany</i>	New Aspects of Electrostatic Engineering of Surfaces and Interfaces
Prof. Rie Umetsu	<i>Tohoku University, Japan</i>	Magnetic Properties and Energy State of Half-Metallic Co-based Heusler Alloys
Dr. Yuhu Zhai	<i>Princeton Plasma Physics Laboratory, USA</i>	Fusion Materials Needs to Mature Enabling Technologies for Energy and Science

Oral Presentation

Mr. Gunther Van Kerckhove	<i>OCSiAl Group, Luxembourg</i>	Importance of Exposure Assessment Along Life Cycle of Nanocomposites
Prof. Iliana A Ivanova	<i>Sofia University, St. Kliment Ohridski, Bulgaria</i>	Optical, Photocatalytic, and Antibacterial Properties of Sol-Gel Derived Fe Doped SrTiO₃ Powders
Assoc. Christl Lauterbach	<i>Future-Shape GmbH, Germany</i>	A Smart Textile Underlay providing a Large-Area Sensor Floor
Prof. Karolina Kielbasa	<i>West Pomeranian University of Technology in Szczecin, Poland</i>	Carbon Materials: Synthesis Pathways from Nonporous to Microporous Carbon Adsorbents Derived from Molasses for CO₂ Removal Applications
Prof. Stephen W Tsai	<i>Stanford University California, USA</i>	Double-Double: A Revolutionary Laminate Theory
Prof. Maria Glushkova	<i>Rostov State Medical University, Russia</i>	Systemic Blood Changes in Skin Hyperpigmentation. Correction Possibilities
Dr. Hiroyuki Aoki	<i>Japan Atomic Energy Agency, Japan</i>	Interface Engineering to Enhance Adhesion Strength in High Humidity
Dr. Maresca Marc	<i>Aix Marseille University, France</i>	Doing Better Than Nature: Use of Synthetic Antibacterial Copolymers (SACs) Mimicking Natural Antimicrobial Peptides (AMPs) to Confer Antimicrobial Properties to Materials.
Dr. Shuji Ogata	<i>Nagoya Institute of Technology, Japan</i>	High-Performance Polymers and Composites for Advanced Engineering
Dr. Shijeesh M. Raman	<i>Universidad Politécnica de Madrid, Spain</i>	Integrating 2D MoS₂ FETs with PVDF Triboelectric Layers for Next-Generation Artificial Sensory Systems

Prof. José Paulo Barbosa Mota	<i>NOVA University Lisbon, Portugal</i>	Evaluation of Optimal Porous Nanomaterials for Low-Temperature, Vibration-Free Cryocoolers
Dr. Peter Gyarmati	<i>Stanford University, USA</i>	The Gauss's Theorema Egregium-The Importance of Non-Euclidean Geometry
Prof. Jiaxin Cai	<i>Xiamen University of Technology, China</i>	Later Temporal Attention in Computer Aided Medical Diagnosis
Prof. Haiming Luo	<i>Hainan University, China</i>	Sensitive Detection of Multiple Blood Biomarkers via Immunomagnetic Exosomal PCR for the Diagnosis of Alzheimer's Disease
Dr. George Sawatzky	<i>Soochow University, China</i>	Towards an Understanding of The Exotic Properties of 3d Transition Metal and Rare Earth Compounds
Prof. Silvete Coradi Guerini	<i>Federal University of Maranhão, Brazil</i>	Advances In High-Voltage Consolidation Of Powder Materials
Dr. Abhishek Srivastava	<i>University of Freiburg, Germany</i>	Autonomous Chemical Sensing via Buckling in Responsive Microfluidic Membranes

Oral Presentation

Prof. Angyang Yu	<i>Harbin Institute of Technology, China</i>	Doping Effects on Hydrogen Storage Properties of Graphene
Prof. Adelhamid El kaaouachi	<i>Faculty of Sciences Ibn Zohr of Agadir, Morocco</i>	Magnetoconductivity Behaviour Due to Electron–Electron Interactions, Weak Localization and Zeeman Effects in 2-D-layered WS 2
Prof. Masatoshi Shimoda	<i>Toyota Technological Institute, Japan</i>	Topology Optimization with Optimized Design Domain for Designing Biologically Derived Microstructures
Prof. Xie Quan	<i>Dalian University of Technology, China</i>	Engineering Single-Atom Catalysts for Advanced Electro-Fenton Processes in Water Purification
Zahir Sayyed	<i>Vmware, US</i>	Development of a Simulator to Mimic VMware vCloud Director (VCD) API Calls for Cloud Orchestration
Prof. Arthur J. Nozik	<i>University of Colorado, Boulder</i>	Climate Change & Renewable Energy: Science, Technology, Economics, & Reality; and Advanced Concepts for Highly Efficient Solar Photon Conversion into Photovoltaics & Fuels Based on Quantization Effects in Nanostructures & Molecular Singlet Fission

Assoc. Nikola Biliškov

Ruđer Bošković Institute, Croatia

How Solid-State Reactions Work from Mechanochemistry to Contact Reactions

Prof. Hajime Shirai

Saitama University, Japan

Electrostatic Rectification of Li⁺ Transport in Amorphous TiO_x Thin Films Grown by Mist CVD

*****Speaker Slots Available*****

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Poster Presentation

Dr. Constantinos Sioutas

University of Southern California, USA

Electrostatic Enhancement of the Collection Efficiency of Stainless-Steel Filters

Mr. Ricky Yu-Syun Fan

National Taiwan University, Taiwan

The Modification of Metallic Organic Framework Material and its Application on Electrocatalysis and Lithium-ion Storage

Ms. Emelia Sim Eng Zhi

National Taiwan University, Taiwan

Ni–Co Prussian-Blue-Analogue–Derived Porous Oxides Show Dose-Dependent Antibacterial Activity Against Escherichia coli

Hussein Fawzi Hussein

Scientific Research Commission, Baghdad, Iraq

Effect Of Nitride Time on the Mechanical Properties for the (Ti6Al4V) and (Ti6Al7Nb) Alloys for using Medical Applications

Dr. Bachir Bachir Bouiadjra

Electromechanical department University of Oran2 Mohamed Ben Ahmed, Algeria

Fabrication, Biocompatibility, and Therapeutic Applications

Dr. Chang Su Woo

Korea Institute of Machinery & materials, Rep. of Korea

Characteristic Analysis of Rubber Components