

WORLD CONGRESS ON MATERIALS SCIENCE AND ENGINEERING

Dates:

April 05 & 06, 2027 (In-Person)

April 07, 2027 (Virtual)

Venue:

Holiday Inn Lisbon –
Continental, Lisbon

**Theme:**

“Empowering
Materials Discovery
Through Shared
Intelligence”



Materials Summit 2027
<https://materialsinnovation.mindauthors.com/>

Tentative Agenda

Introduction & Opening Ceremony

Last Updated on 24th August 2026

Plenary Presentation

Prof. Masahiro Yoshimura

*Tokyo Institute of Technology,
Tokyo, Japan*

Functional ceramic materials: definition, origin and improvement of functionality of materials

Keynote Presentation

José L. OCAÑA

Universidad Politécnica de Madrid, Spain

Improvement of the Mechanical Performance of High-Added-Value Metallic Materials by Laser Shock Processing

Dr. Emily Hunt

West Texas A&M University, USA

Purpose-driven materials discovery through collaboration

Prof. Takashi Saito

Health Sciences University of Hokkaido, Japan

Interfacial bioactivity and antibacterial mechanisms of a calcium salt-functionalized universal adhesive

Dr. José L. OCAÑA

Universidad Politécnica de Madrid, Spain

Improvement of the mechanical performance of high-added-value metallic materials by laser shock processing

Dr. Michael Zharnikov

Heidelberg University, Germany

Poly(Ethylene Glycol) hydrogel films and nanomembranes: design, properties, and applications

Dr. Maria I. Dalamagka

*Anesthesiology Department,
General Hospital of Larissa,
Greece*

Neuro and radiant oncology and anaesthesia considerations

Dr. Alessandra Palella

Italian National Research Council, Italy

Novel routes for advanced green-hydrogen generation and utilization in hard-to-abate industrial sectors

Prof. Lorenzo Spadaro

Italian National Research Council, Italy

Chemical H₂ storage via liquid energy vectors

Dr. Bernd Blobel

University of Regensburg, Germany

Challenges and solutions for managing integration and interoperability in intelligent and ethical ecosystems demonstrated for the healthcare domain

Prof. Peter G. Gyarmati

Stanford University, USA

Thoughts concerning artificial intelligence for you

Dr. Rogério Navarro Correia de Siqueira

Chemical and Materials Engineering Department, PUC-Rio, Brazil

Functionalized nanocellulose fibers applications for metals adsorption and as a reactive template for nanomaterials synthesis

Dr. Orlando Auciello

University of Texas, Dallas, USA

Materials science and technological applications of a unique multifunctional ultrananocrystalline diamond (UNCD™) coating for new generations industrial/high-tech/medical

Prof. Dr. W.H. Katie Zhong

School of Mechanical and Materials Engineering, USA

Abundant natural proteins for functional material applications in nanocomposites, energy storage and environment

Dr. Yong Yi

China Southern Power Grid Company Ltd., China

Sodium-ion battery energy storage system: modeling, data-driven state estimation

Dr. Nikolai A. Sobolev

University of Aveiro, Portugal

Memristive effect and reservoir computing in ZnO tetrapod networks

Prof. Liqiu Wang	<i>The Hong Kong Polytechnic University, Hong Kong</i>	Liquid precision: programming nanoliter droplets for next-generation functional materials
Dr. Jiang Yang	<i>Liaoning Petrochemical University, China</i>	Lignin-derivatives for dispersing phthalocyanine nano-pigments and enhancing oil recovery
Prof. Gerard Tobías-Rossell	<i>Institute of Materials Science of Barcelona (ICMAB-CSIC), Spain</i>	Rational design of nanoparticles for cancer therapy
Dr. Yahui Zhang	<i>Memorial University of Newfoundland, Canada</i>	Converting carbon dioxide to graphite using active metal melt for carbon neutralization and its application for green hydrogen production
Prof. Dr. Qadir Bux alias Imran Latif	<i>University of Nizwa, Oman</i>	Development of ultra high performance concrete in oman
Prof. Kveglis Lyudmila Iosifovna	<i>S. Amanzholov East Kazakhstan University, Kazakhstan</i>	The influence of induction current and temperature on the destruction of silicon carbide particles

Oral Presentation

Mr. Denis Cutcovschi	<i>Technical University Gheorghe Asachi Iasi, Romania</i>	ZnO/ZnLDH/ZnLDO as novel ternary Zn²⁺-based photocatalysts for water splitting
Prof. Sonia Patricia Marques Ventura	<i>University of Aveiro, Portugal</i>	From marine bioactives to sustainable biomaterials: a blue biorefinery process approach
Christl Lauterbach	<i>Future-Shape GmbH, Germany</i>	A large-area sensor system based on smart textiles
Dr. Sung-Chyr Lin	<i>National Chung Hsing University, Taiwan</i>	Polysaccharide-based adsorbents for downstream processing of recombinant proteins and chelation of metal ions
Prof. Edvin Hevorkian	<i>University of Life Sciences, Poland</i>	Influence of graphene addition on the microstructure and tribological properties of electroconsolidated ZrO₂-3 mol.% Y₂O₃ composites
Prof. Andrei V. Arzhannikov	<i>Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russia</i>	Transformation of polymeric materials under exposure by a megawatt pulse flux of subthz radiation
Dr. Dimitrios Kotzias	<i>Former Senior Official, European Commission Joint Research Centre, Italy</i>	Heterogeneous photocatalysis of priority air pollutants on TiO₂-based coatings in indoor and outdoor environments- a mechanistic view of the processes at the air/catalyst interface
Dr. Valeri Barsegov	<i>University of Massachusetts, USA</i>	Dynamic force spectroscopy in silico: exploring strength, deformability, toughness and mechanical fatigue of biological nanoparticles
Dr. Albin Kaelin	<i>CEO, epeaswitzerland gmbh, Switzerland</i>	Cradle to cradle design innovations
Dr. Monika Michalska	<i>VSB-Technical University of Ostrava, Czech Republic</i>	Low-temperature defect engineering of Melem/g-C₃N₄ functional materials by ultra-mild thermal treatment
Prof. Rogério José Marczak	<i>Federal University of Rio Grande do Sul, Brazil</i>	Another hyperelastic model in mechanics: the hms model

Prof. Dr. Aleksandr S. Kamzin

Ioffe Physical Technical Institute of RAS, St.-Petersburg, Russian Federation

Mr. Asad Ullah

Cranfield University, UK

Dr. Eugene Stephane Mananga

The City University of New York and New York University, USA

Prof. Kenji Uchino

The Penn State University, University Park, USA

Dr. Sandra Ramírez-Rave

National Autonomous University of Mexico, Mexico

Ms. Sanyukta Datta Gupta

Georgia Institute of Technology, USA

Prof. Vladimir G. Chigrinov

Hong Kong University of Science and Technology, Hong Kong

Dr. Andrea Molina Estrada

National Autonomous University of Mexico, Mexico

Dr. Anna Knyazeva

Panin Institute of Strength Physical and Material Science SB RAS, Russia

Dr. Workineh Mengesha Fereja

Dilla University, Ethiopia

New magnetic nanoparticles for biomedical applications: imaging (MRT and MPI) and therapy (Drug Delivery and MHT) of human

High-entropy alloys in cryogenic turbopump bearings: wear, fatigue, friction, and rotordynamic stability

Bridging theory and experiment: computational insights into 2D materials for sustainable energy technologies

Global crisis sustainability technologies in actuator/piezoelectric devices

Molecular photoswitches for dynamic soft matter: light-induced control of wormlike micelles using tetra-ortho-substituted azobenzenes

From exciton dynamics to detectivity: a unified framework for infrared organic photodiodes

Photoaligned azodye nanolayers : new trends for liquid crystal devices

Folate-functionalized polyvinyl acetate nanoparticles for the targeted delivery of eugenol in breast cancer treatment

Regularities of phase formation during the composite synthesis under reactive sintering

Solar light assisted photocatalytic degradation of organic dyes using sustainable bio-fabricated CuO, ZnO nanoparticles and CuO/ZnO nanocomposites using syzygium cumini extract toward sustainable environmental remediation

*****Slots Available*****

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*****Slots Available*****

Poster Presentation

Ms. Sanyukta Datta Gupta

Georgia Institute of Technology, USA

From exciton dynamics to detectivity: a unified framework for infrared organic photodiodes

Prof. Zviad Kovziridze

Georgian Technical University, Georgia

Smart nanocomposite in the system of oxygenated and oxygen-free compounds

Dr. Abbassia Demmouche

Djillali Liabes University of Sidi Bel Abbes, Algeria

Mouthwash formulation based on wild olive extract "olea europaea sylvestris"

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



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