WORLD CONGRESS ON

MATERIALS SCIENCE AND ENGINEERING

Theme:

"Frontiers in Materials Science and Engineering: Driving Innovation, Sustainability, and Global Transformation"

Dates:

April 05 & 06, 2027 (In-Person)
April 07, 2027 (Virtual)

Venue:

Holiday Inn Lisbon – Continental, Lisbon







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	*The Hong Kong Polytechnic University, Hong Kong*	**Liquid precision: programming nanoliter droplets for next-generation functional materials**
Dr. Jiang Yang	*Liaoning Petrochemical University, China*	**Lignin-derivatives for dispersing phthalocyanine nano-pigments and enhancing oil recovery**
Prof. Gerard Tobías-Rossell	*Institute of Materials Science of Barcelona (ICMAB-CSIC), Spain*	**Rational design of nanoparticles for cancer therapy**
Dr. Yahui Zhang	*Memorial University of Newfoundland, Canada*	**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	*University of Nizwa, Oman*	**Development of ultra high performance concrete in oman**
Prof. Kveglis Lyudmila Iosifovna	*S. Amanzholov East Kazakhstan University, Kazakhstan*	**The influence of induction current and temperature on the destruction of silicon carbide particles**

Oral Presentation

Mr. Denis Cutcovschi	*Technical University Gheorghe Asachi Iasi, Romania*	**ZnO/ZnLDH/ZnLDO as novel ternary Zn^{2+}-based photocatalysts for water splitting**
Prof. Sonia Patricia Marques Ventura	*University of Aveiro, Portugal*	**From marine bioactives to sustainable biomaterials: a blue biorefinery process approach**
Christl Lauterbach	*Future-Shape GmbH, Germany*	**A large-area sensor system based on smart textiles**
Dr. Sung-Chyr Lin	*National Chung Hsing University, Taiwan*	**Polysaccharide-based adsorbents for downstream processing of recombinant proteins and chelation of metal ions**
Prof. Edvin Hevorkian	*University of Life Sciences, Poland*	**Influence of graphene addition on the microstructure and tribological properties of electroconsolidated ZrO_2–3 mol.% Y_2O_3 composites**
Prof. Andrei V. Arzhannikov	*Budker Institute of Nuclear Physics SB RAS, Novosibirsk, Russia*	**Transformation of polymeric materials under exposure by a megawatt pulse flux of subthz radiation**
Dr. Dimitrios Kotzias	*Former Senior Official, European Commission Joint Research Centre, Italy*	**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	*University of Massachusetts, USA*	**Dynamic force spectroscopy in silico: exploring strength, deformability, toughness and mechanical fatigue of biological nanoparticles**
Dr. Albin Kaelin	*CEO, epeaswitzerland gmbh, Switzerland*	**Cradle to cradle design innovations**
Dr. Monika Michalska	*VSB-Technical University of Ostrava, Czech Republic*	**Low-temperature defect engineering of Melem/g-C_3N_4 functional materials by ultra-mild thermal treatment**
Prof. Rogério José Marczak	*Federal University of Rio Grande do Sul, Brazil*	**Another hyperelastic model in mechanics: the hms model**

Prof. Dr. Aleksandr S. Kamzin	*Ioffe Physical Technical Institute of RAS, St.-Petersburg, Russian Federation*	**New magnetic nanoparticles for biomedical applications: imaging (MRT and MPI) and therapy (Drug Delivery and MHT) of human**
Mr. Asad Ullah	*Cranfield University, UK*	**High-entropy alloys in cryogenic turbopump bearings: wear, fatigue, friction, and rotordynamic stability**
Dr. Eugene Stephane Mananga	*The City University of New York and New York University, USA*	**Bridging theory and experiment: computational insights into 2D materials for sustainable energy technologies**
Prof. Kenji Uchino	*The Penn State University, University Park, USA*	**Global crisis sustainability technologies in actuator/piezoelectric devices**
Dr. Sandra Ramírez-Rave	*National Autonomous University of Mexico, Mexico*	**Molecular photoswitches for dynamic soft matter: light-induced control of wormlike micelles using tetra-ortho-substituted azobenzenes**
Ms. Sanyukta Datta Gupta	*Georgia Institute of Technology, USA*	**From exciton dynamics to detectivity: a unified framework for infrared organic photodiodes**
Prof. Vladimir G. Chigrinov	*Hong Kong University of Science and Technology, Hong Kong*	**Photoaligned azodye nanolayers : new trends for liquid crystal devices**
Dr. Andrea Molina Estrada	*National Autonomous University of Mexico, Mexico*	**Folate-functionalized polyvinyl acetate nanoparticles for the targeted delivery of eugenol in breast cancer treatment**
Dr. Anna Knyazeva	*Panin Institute of Strength Physical and Material Science SB RAS, Russia*	**Regularities of phase formation during the composite synthesis under reactive sintering**
Dr. Workineh Mengesha Fereja	*Dilla University, Ethiopia*	**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**

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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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