



10th World Congress on

MATERIALS SCIENCE AND ENGINEERING

Theme:

**“Accelerating Industrial and
Societal Transformation
through Innovations in
Materials Science and
Engineering”**



Dates:

**November 9 & 10, 2026 (In-Person at Hong Kong)
November 11, 2026 (Virtual Via Zoom Platform)**

Venue:

Park Hotel Hong Kong



Tentative Agenda

Introduction & Opening Ceremony

Last Updated on 18th August 2026

Valuable OCM

Prof. Dr. Peter G. Gyarmati	Stanford University, USA, California
Prof. Wojciech Czekala	Poznan University of Life Sciences, Poland
Prof. Ligu Shen	Zhejiang Normal University, China
Prof. Bing-Huei Chen	Fu Jen University, Taiwan
Prof. Dou Zhang	Harbin Institute of Technology, China

Plenary Presentation

Claudia Letizia Bianchi	University of Milan, Italy	From Nanopowders To Floating Photocatalytic Platforms: Nanomaterial Design For Solar-driven Wastewater Treatment
Annie powell	Karlsruhe Institute of Technology, Germany	When Molecules Become Nanoscale And Bridge The Gap Between Solid State And Molecular Based Properties
Sonia P. M. Ventura	University of Aveiro, Portugal	From Blue Biorefinery Processes to Bioactive-Driven Sustainable Biomaterials
Hugo Pérez-Garza	DENSsolutions BV, Netherlands	A Modular MEMS Ecosystem Enabling Correlative in Situ Microscopy Across Different Platforms, Length Scales, And Environments
Jun Chen	University of California, Los Angeles, United State	Discovering Magnetoelasticity In Soft Matter for Bioelectronics
Lim Way Foong	Universiti Sains Malaysia, Malaysia	Rare Earth Oxide High-K Dielectrics: Tb407 For Next-Generation Power Device Passivation
Jianghua Shen	Northwestern Polytechnical University, China	Oxygen and Interstitial Engineering for Next-Generation High-Performance Titanium Alloys

Keynote Presentation

Yiyuan Yang	National University of Singapore, Singapore	New Opportunities in Treatment of Neurodegenerative Diseases Enabled by Flexible Optogenetic Devices
Lin Wang	Nanjing Tech University, China	Intelligent Iodide-Based Two-Dimensional Semiconductors for Next-Generation Optoelectronics
Kriveshini Pillay	University of Johannesburg, South Africa	Heavy-metal Loaded Nanocomposites As Novel Photocatalysts For The Degradation Of Organic Pollutants
Takashi Saito	Health Sciences University of Hokkaido, Japan	From Bond Strength to Biofunction: Interfacial Mineralization and Antibacterial Effects of a Calcium Salt-Functionalized Adhesive

Federica Fernandez	<i>University of Palermo, Italy</i>	Nanotechnology in Architecture: Advanced Materials for Low-Impact and Durable Sustainable Design
Dou Zhang	<i>Harbin Institute of Technology, China</i>	Mechanics of Fiber Microbuckling In Shape Memory Polymer Composites
Yongmei Zheng	<i>School of Chemistry, Beihang University, China</i>	Bioinspired Surfaces and Materials for Liquid Motion Control and Water Capture
Hendrik Heinz	<i>University of Colorado Boulder, USA</i>	Integrating Simulation, Experiment, and AI to Understand Biomolecular Recognition and Nanostructure Assembly
Paata J. Kervalishvili	<i>Georgian Technical University, Tbilisi, Georgia</i>	Carbon-Silicon Nanopowder Enhanced Solid-Plasma Fuel for Angara-Class Space Rockets
Shuiquan Deng	<i>Chinese Academy of Sciences, China</i>	Theory of Nonlinear Optical Atomic Response and Recent Advances
Kwun Nam Hui	<i>University of Macau, China</i>	From Materials to Mechanisms: A Unified Framework for Lithium–Sulfur Battery Catalysis
Albin Kaelin	<i>CEO, epeaswitzerland gmbh, Switzerland</i>	Cradle to Cradle Design Innovations
Jian-Tao Wang	<i>Institute of Physics, Chinese Academy of Sciences, China</i>	Pressure Induced Phase Conversion in Layered Quaternary Metal Phosphorus Trichalcogenides
Zhengdong Cheng	<i>Zhejiang University, China</i>	Control of Nano-Plate Liquid Crystals with External Fields
Jiong Zhou	<i>Northeastern University, China</i>	Macrocycle Co-Crystal Materials
Olivier Bonnaud	<i>University of Rennes, France</i>	The Challenges In Nanotechnology And Materials Science To Deal With Energy Consumption And The Sustainability Of Information Technology Hardware
Eugene Mananga	<i>The City University of New York and New York University, USA</i>	Electrochemical Transformations Of 2-propanol In Aqueous Solutions Using The Cosmo Solvation Model
Wang Jiangtao	<i>Peking University, China</i>	Synthesis, Integration And Application Of Low-dimensional Materials
Alois K. SCHLARB	<i>RPTU Kaiserslautern-Landau, Germany</i>	Microfibrillar Composites (MFC) 3.0: Manufacturing, Opportunities, and Challenges.
Victor Abrukov	<i>Chuvash State University, Russia</i>	Neural Networks for Development of Advanced Materials in the Framework of Materials Genome Initiative Conception
Shuichi Iwata	<i>The University of Tokyo, Japan</i>	Are We Sitting On Untapped Treasure?

Oral Presentation

Anders Gustafsson	<i>Solid State Physics and NanoLund, Lund University Lund, Sweden</i>	Micron-Sized III-Nitride Platelets studied by Hyperspectral and Time-Resolved Cathodoluminescence
Liviu Popa-Simil	<i>LAAS-Los Alamos Academy of Sciences, USA</i>	The Decline and Reinvention of Nuclear Power
Alei Dang	<i>Northwestern Polytechnical University, China</i>	Structural Adjustment and Trace Detection of Molecules from Mxene Based SERS Materials
Dr. Haiyang Li	<i>Beijing Institute of Technology, China</i>	Ductilizing A Low-density Refractory High-entropy Alloy Via Precipitate-mediated Deformation Mode Transition
Yue Ma	<i>Northwestern Polytechnical University, China</i>	Synergistic Regulation of Hydrogen Sorption Kinetics by In Situ Mg₂Ni And Ndh₂ In Mg-Ni-Nd Alloys
Tianyi Han	<i>Tsinghua University, China</i>	Ion Adsorption and Hydration Superlubricity
Dr. Yumei Wang	<i>National University of Singapore Chongqing Research Institute</i>	Interfacial Design: Advanced Polymer Composite Electrolytes for Stable Solid-State Batteries
Zhengxian Liu	<i>Harbin Institute of Technology, China</i>	Smart Polymer Composites and Their Space Deployable Structures
Binghuan Gao	<i>Harbin Institute of Technology, China</i>	3D Printing of Real-Time Reactive Geopolymers And Post-Processing Of 3D Printed Ceramic Green Body
Haomin Song	<i>University of Macau, China</i>	Planar Nanocavity-Enabled 2D-Perovskite Photodetectors: High-Speed, Self-Powered Operation with Exceptional Ambient Stability
Winny Kgabo Maboya	<i>University of South Africa, South Africa</i>	Non-Noble Metal Supported on Carbon Nanomaterials as Electrocatalysts For Hydrogen Production Via Water Splitting
Mr. Vinay Tidke	<i>National Institute of Technology, India</i>	Growth of Artificial Intelligence and Machine Learning in Materials Science Research
Ping (Peter) ZHANG	<i>University of Macau, Macao SAR</i>	Scale Inhibitor Nanomaterial-Embedded GO Membrane for Integrated Scaling and Biofouling Control in Water Treatment
Win-long Chia	<i>Fu Jen Catholic University, Taiwan</i>	OLED, The Future Display
Javier Méndez	<i>Materials Science Institute of Madrid, Spain</i>	Physicochemical Processes Of Organic Molecules On Surfaces: An Stm Study From Self-assembly To On-surface Chemistry
Xu Mingzhen	<i>University of Electronic Science and Technology of China, China</i>	Design and Construction of Multifunctional Nanomaterial Fillers for Thermal Management, Flame Retardancy, and Electromagnetic Wave Absorption
Daedong Sung	<i>Korea University, South Korea</i>	Mechanisms of Cellular Therapeutic Responses to Drugs for Chronic Diseases
Suping Li	<i>National Center for Nanoscience and Technology, China</i>	Smart Nanodrugs Modulating Tumor Vascular Microenvironment

**Athena Melove
Obtinalla**

*LORMA Colleges Basic and
Inclusive Education Schools,
Philippines*

**Design and Development of an Autonomous
Seed Planter with an Irrigation System for
Small Farmers in the Municipality of
Burgos, La Union**

Yabo Fu

*School of Materials and
Engineering, China*

**Research on the Effect of Electromagnetic
Field on the Properties of Hydrogen-Storing
Alloy Ti32V48Fe15Mn5**

Abdelmjid Bouazizi

*Moulay Ismail University of
Meknès, Morocco*

**Towards Sustainable Nanofiltration
Membrane Technologies through the
Valorization of Moroccan Geomaterials and
Nanomaterials for Advanced Water
Treatment**

Evans Asare

*Nazarbayev University,
Kazakhstan*

**Novel Nanozyme Particles as Effective
Tomatoes Coating Agent to combat its
Spoilage**

Giuseppe Forte

University of Catania, Italy

**Computational Study of Structure–Property
Relationships in Graphene-Like Models of
Photoactive Carbon Nanomaterials**

Yaohua ZHU

*Hong Kong Polytechnic
University, Hong Kong*

**A research road map approaching thin films
of semiconductors Electropulsing induced
phase transformations and their practical
applications of thin films of TCO and TE
semiconductors**

**EL FARNINI
Oumaima**

*Hassan II university,
Morocco*

**Comparative Assessment of Supply Chain
Logistics for Compressed Versus Liquefied
Hydrogen**

**Andrey A.
Pavlychev**

*St. Petersburg State
University, Russia*

**Relationship of Age and Charge Effects in
Atomic and Molecular Architecture of Bone
Tissue**

Zhongsheng Guo

*Northwestern A & F
University, Yangling, China*

**Sustainable Use Of Nature Resource And
Agricultural High-quality Development**

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

Poster Presentation

**Dr. Phamei
Rumthao**

*University of Hyderabad,
India*

**Chemical Bonding, Lone-Pair
Stereochemistry, and the Nearly Isotropic
Optical Response of TiSr_2X_5 ($\text{X} = \text{Cl}, \text{Br}, \text{and I}$) ternary halide scintillators**

**Tatiana S.
Kolesnikova**

*Southern Federal University,
Russia*

**Synthesis And Study Of The Properties Of
Zirconium Maleate As A Precursor Of
Polyfunctional Materials**

Yang Zhao

*Central South University, PR
China*

**Key Factors for Enhancing the Service
Performance of Al-Mg-Si Alloy Conductors
via Tailoring the Composition and
Microstructure of Strengthening Phases in
Nano-scale**

**Galex Gyle B.
Tinao**

*University of San Agustin,
Philippines*

**Nano Dispersions Of Curcumin: Preparation
And Characterization**

**Julia D.
Bryantseva**

*Southern Federal University,
Russia*

**Synthesis Of Multifunctional Materials
Based On Titanium Compounds And
Composites Based On Titanium
Dicarboxylates**



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