

INTERNATIONAL CONFERENCE ON

MATERIALS SCIENCE & ENGINEERING

THEME:

"Frontiers in Materials Science and Engineering: From Fundamental Research to Sustainable Innovation"

DATES:

April 26 & 27, 2027 (In Person in Taiwan) &
April 28, 2027 (Virtual)

Venue:

Hotel Royal-Nikko Taipei, Taiwan



Materials Core 2027

<https://materials.tunedscience.com/>

Tentative Agenda

Introduction & Opening Ceremony

Last Updated on 5th October 2026

Keynote Presentation

Prof. Quan Jiang	<i>Tokyo University of Science, Japan</i>	Application of an Improved Interfacial Evaluation Method to Cellulose-FRTP Development and Mechanical Performance Enhancement
Dr. Toshihiro Shimada	<i>Hokkaido University, Japan</i>	Molecular Dynamics Simulation for the Design and Processing of Organic Materials and Nanomaterials
Dr. Libor Kvitek	<i>Palacky University in Olomouc, Czech Republic</i>	Metal Oxides as Efficient Catalysts for the Hydrogenation of Carbon Dioxide
Dr. Hiroshi HARADA	<i>Nagoya University, Japan</i>	Some Unique Solidification Phenomena Observed Unidirectional Solidification of Peritectic System
Dr. Weiping Qin	<i>University of Nebraska Medical Center, Omaha</i>	A Novel Nanomedicine Targeted to Promote Functional Recovery and Mitigate Side Effects After Acute Spinal Cord Injury
Prof. Yumei WANG	<i>Chongqing Research Institute, China</i>	Interfacial Design of Solid-State Electrolytes for Long-Cycle Solid-State Batteries
Prof. Zhongwen Liao	<i>South China Agricultural University, China</i>	Activated Phosphate (AP) Made from Poor Grade Ore Without Acid - Revolutionary Breakthrough to Tackle the Global Crisis of Phosphorus Resource Shortage
Dr. Osman ADIGUZEL	<i>Firat University, Turkey</i>	Memory Characteristics and Crystallographic Basis of Reversibility in Shape Memory Alloys
Prof. W.H. Katie Zhong	<i>Washington State University, USA</i>	Abundant Natural Proteins for Functional Material Applications in Nanocomposites, Energy storage and Environment
Prof. Michele Nash-Hoff	<i>Electro Fab Sales, USA</i>	The Future of Global Manufacturing

Oral Presentation

Prof. Chi-Yan TSO	<i>City University of Hong Kong, China</i>	Passive Heat and Light Management with Advanced Building Skins from Material Design to Applications
Prof. Jin Huang	<i>Shihezi University, China</i>	Cellulose Nanocrystal Materials Innovation Based on Secondary Bonds Network and Multi-level Asymmetry
Prof. Bin Wu	<i>Nanyang Technological University, Singapore</i>	Optimizing Electronic Synergy of Atomically - dispersed Dual - metal Ni-N₄ and Fe-N₄ Sites with Adjacent Fe Nanoclusters for High-efficiency Oxygen Electrocatalysis
Prof. Yuhu Zhai	<i>Princeton Plasma Physics Laboratory, USA</i>	Fusion Materials Needs to Mature Enabling Technologies for Energy and Science
Prof. Yasuhiro Morisaki	<i>Kwansei Gakuin University, Japan</i>	Synthesis and Properties of Organic Circularly Polarized Luminescence (CPL) Emitters Based on Planar Chiral Compounds

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Prof. Betty Revon Liu *Tzu Chi University, Taiwan*

Dr. Kamzin Aleksandr *Loffe Institute RAS, Russia*

Prof. Suping Li *University of Chinese Academy of Sciences, China*

Comparisons of Copper-Nanoparticle - Induced Programmed Cell Death in Human Hepatoma and Three Opportunistic Bacteria

New Magnetic Nanoparticles (MNP) and Nanocomposites (MNC) for Biomedical and Industrial Applications

Smart Nanomedicines Acting on Tumor Vessel Microenvironment

****Slots Available****

****Slots Available****

****Slots Available****



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