

Asian Conference on

ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

Dates:

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

Venue:

Park Hotel Hong Kong, Hong Kong



Tentative Agenda

Introduction & Opening Ceremony

Last Updated on 19th August 2026

Valuable OCM

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

Plenary Presentation

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

Keynote Presentation

Yiyuan Yang	<i>National University of Singapore, Singapore</i>	New Opportunities in Treatment of Neurodegenerative Diseases Enabled by Flexible Optogenetic Devices
Lin Wang	<i>Nanjing Tech University, China</i>	Intelligent Iodide-Based Two-Dimensional Semiconductors for Next-Generation Optoelectronics
Kriveshini Pillay	<i>University of Johannesburg, South Africa</i>	Heavy-metal Loaded Nanocomposites As Novel Photocatalysts For The Degradation Of Organic Pollutants
Takashi Saito	<i>Health Sciences University of Hokkaido, Japan</i>	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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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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