

Theme:

**“Evaluating the new
Strategies and
Solutions for
Nanoscience &
Nanotechnology”**



2nd Asian Congress on Nanoscience and Nanotechnology

November 07-08, 2025 | Hong Kong

Venue Park Hotel, Hong Kong

Nanotech Asia 2025

<https://nanotech.mindauthors.com/>

SCIENTIFIC AGENDA

DAY-1

November 07, 2025

In-person Conference

Day 1

08:30 - 08:45 Onsite Registration & Seating Arrangement

08:45 - 09:00 Introduction & Opening Ceremony

Keynote Presentations

09:00 - 09:25 Title: Advanced Innovative Nanostructured Oxygen Electrodes for Solid Oxide Cells
Prof. Elisabeth Djurado, *University Grenoble Alpes, France*

09:25 - 09:50 Title: Practices of using bio-based materials for flame retarding cotton fabrics
Prof. Fei You, *Nanjing Tech University, China*

09:50 - 10:15 Title: Electron-Ion Interaction In 2D Semiconductor Nano-Fluidics for Blue Energy Generation
Prof. Jean-Pierre Leburton, *University of Illinois at Urbana-Champaign, USA*

Refreshment & Coffee - 10:15 - 10:35

Keynote Presentations...

10:35 - 11:00 Title: RUNX1: a novel therapeutic target for myocardial infarction and cerebral infarction
Dr. Weihong He, *Sichuan University, China*

11:00 - 11:25 Title: Removal of toxic phenol from wastewater using biological and industrial waste materials as adsorbents
Dr. Ashanendu Mandal, *University of Calcutta, India*

11:25 - 11:50 Title: Optimized UV-B and UV-A Emission in BaB8O13 compounds: Tailoring Gd³⁺ Doping with Pb²⁺, Ce³⁺ and Pr³⁺ for Phototherapy Applications
Prof. Leelakrishna Reddy, *University of Johannesburg, South Africa*

Oral Presentations

11:50 - 12:10 Title: Surface Engineering and Application of Ultrasmall Metal Nanoclusters
Dr. Xun Yuan, *Qingdao University of Science and Technology, China*

12:10 - 12:30 Title: Low-Elasticity SW-/MW-CNT Hybrid Binder for Enhanced Battery Performances in Lithium-Ion and Sodium-Ion Batteries
Dr. Nobuyuki Zettsu, *Shinshu University, Japan*

12:30 - 12:50 Title: Understanding friction in 2D material surfaces: background and perspectives
Prof. Roberto Guerra, *University of Milan, Italy*

12: 50 - 13:10 Title: Nanoparticles dispersion assessment by a novel thermography technique
Prof. Antonio Pantano, *University of Palermo, Italy*

Memorable Group Photo & Tempting Buffet lunch - 13:10 - 13:50

Oral Presentations Cont...

13:50 - 14:10 Title: Microwave-Induced Attractive Force Between Dielectric Spheres –A Potential Non-Thermal Effect in Microwave Sintering
Dr. Li-chung Liu, *National Taiwan University, Taiwan*

- 14:10 - 14:30** Title: A Research Road Map Approaching Thin Films of Semiconductors
Electropulsing Induced Phase Transformations in Alloys and Thin Films of TCO And TE Semiconductors
Prof. Yaohua Zhu, *The Hong Kong Polytechnic University, Hong Kong*
- 14:30 - 14:50** Title: Ecological Intumescent Fire Barriers for Fire Protection
Mr. Kajetan Pyrzynski, *Delta Innovative Company, Poland*
- 14:50 - 15:10** Title: Textiles with Multifunctional Systems of Human Protection Against Fire, Contamination, Cold & Uv Radiation. A Review
Prof. Dr. Ryszard Kozłowski, *Institute of Natural Fibres, Poland*
- 15:10 - 15:30** Title: Investigation of RUNX1 as a potential therapeutic target for ischemic stroke
Ms. Hengshu Chen, *Sichuan University, China*
- 15:30 - 15:50** Title: An integrated approach to investigate myocardial infarction: from bedside to bench
Dr. Si Wang, *Sichuan University, China*

Refreshment & Coffee - 15:50 - 16:10

Oral Presentations

- 16:10 - 16:30** Title: A new compression cast concrete technology towards low carbon, more durable and high performance.
Ruibo Liu, *Shenzhen University, China*
- 16:30 - 16:50** Title: Electric Double Layer Effect at Solid/Solid Interface in All-Solid-State Battery
Prof. Tohru Higuchi, *Tokyo University of Science, Japan*
- 16:50 - 17:10** Title: Propylene Composites with Natural Carbon Fillers Obtained by Rotational Molding
Prof. Marek Szostak, *Poznan University of Technology, Poland*
- 17:10 - 17:30** Title: Development and Application of Key Technology in The Synthesis of Polyether Polyols
Prof. Zhenggui Gu, *Nanjing Normal University, China*

***** End of Day 1 *****

SCIENTIFIC AGENDA

DAY-2

November 08, 2025

In-person Conference

Day 2

08:45 - 09:00 Onsite Registration & Seating Arrangement

Keynote Presentations

09:00 - 09:25
Title: Why No Black Hole?
Prof. Qiuhe Peng, Nanjing University, China

09:25 - 09:50
Title: Microwave-Induced Attractive Force Between Dielectric Spheres –A Potential Non-Thermal Effect in Microwave Sintering
Prof. Kwo-Ray Chu, National Taiwan University, Taiwan

09:50 - 10:15
Title: Electrochemiluminescence Microscopy for Single Particle and Cellular Analysis
Prof. Jun-Jie Zhu, Nanjing University, China

Refreshment & Coffee - 10:15 - 10:35

Keynote Presentations

10:35 - 11:00
Title: Soul over Matter Information System with Tao Transformative Field
Dr. Laure Le Corroller, Dr.& Master Sha Tao Academy, Canada

11:00 - 11:25
Title: Interfacial transformation and reaction with silicon surfaces: towards mechanochemical additive lithography methods
Prof. Arnaud Caron, Liaoning Academy of Materials, China

Oral Presentations

11:25 - 11:45
Title: Preparation of oxidized graphitic carbon nitride for photocatalytic bactericidal scaffold and augmented bone regeneration
Prof. Jongsung Kim, Gachon University, Korea

11:45 - 12:05
Title: DFT Study of Immobilisation of Pollutants by Carbon-Based Materials from Wastewaters
Dr. Eva Scholtzova, Institute of Inorganic Chemistry, Slovakia

12:05 - 12:25
Title: Deep Learning-Based Knowledge Representation of Microstructures and High-Fidelity Reverse Engineering
Weijie Liao, Northwestern Polytechnical University, China

12:25 - 12:45
Title: A lifetime on synthesis of nitrogen-containing liquid crystals in Taiwan
Prof. Win-Long Chia, Fu Jen Catholic University, Taiwan

Memorable Group Photo & Tempting Buffet lunch -12:45 - 13:25

Oral Presentations

13:25 - 13:45
Title: Atomic-Scale Revelation: Trace La Doping Modulated Elemental Redistribution Mechanisms in Single Crystal Cmsx-4 Superalloys
Yuelin Song, Northwestern Polytechnical University, China

13:45 - 14:05
Title: Closed-Loop Inverse Design of High Entropy Alloys Using Symbolic Regression-Oriented Optimization
Shang Zhao, Northwestern Polytechnical University, China

- 14:05 - 14:25** Title: Interactions of Re and Hydrogen At Γ/Γ' Interfaces Enhanced Hydrogen-Embrittlement Resistance of Re-Optimized Ni-Based Superalloy
Tingting Zhao, Northwestern Polytechnical University, China
- 14:25 - 14:45** Title: Empowering oxidation resistance of Cr-coated zirconium alloys via hydrogen-driven interface polymorphic transformation
Junlei Yin, Northwestern Polytechnical University, China
- 14:45 - 15:05** Title: Exploring the Electric Conductivity of Additively Manufactured Multiphase High-Entropy Alloys
David Maximilian Diebel, Tongji University, China

Refreshment & Coffee - 15:05 - 15:25

Oral Presentations

- 15:25 - 15:45** Title: Simultaneously Achieving Advanced and Heat Treatment Insensitive Strength-Ductility Synergy in an A+B Titanium Alloy Via Tailoring Silicide and Heterogeneous A Precipitates
Jinhua Dai, Northwestern Polytechnical University, China
- 15:45 - 16:05** Title: Revealing the Materials Genome for Advanced High-Entropy Materials
Jiaqi Lu, Northwestern Polytechnical University, China

Poster Presentations - 16:05 - 17:05

- 16:05 - 17:05** Title: Evaluation of Nano-mechanical Performance in Hydroxyapatite-selenium-collagen Nanocomposite Coatings on Ti6Al4v via Electrochemical Deposition
Dr. Ali Shanaghi, Malayer University, Iran
- Title: Comb-shaped anion exchange membrane with segmented hydrophilic/hydrophobic side chain
Dr. Tiantian Li, Dalian University of Technology, China
- Title: Multi-layered electrode architectures for use in the next generation of electrochemical lithium-based energy storage devices
Prof. Sangho Lee, Pukyong National University, Korea
- Title: Hydrolase Nanozyme Based On N, O-Tethered Ni In Reduced Graphene Oxide Matrix
Chen Xuanyu, National University of Singapore, Singapore
- Title: Computational Design and Mechanistic Analysis of Smart Antioxidant Nanoparticles for UV-Induced DNA Damage Prevention: A Molecular Dynamics Study
Ms. Chelsey Miguel, King Kekaulike High School, USA

***** End of Day 2 & Conference *****



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