

World Congress on

MATERIALS SCIENCE AND ENGINEERING

March 05-07, 2026

**Village Hotel Changi,
Singapore**

Theme:

“Advancing the Frontiers of
Materials Science and engineering”



SCIENTIFIC AGENDA

DAY-1

March 05, 2026

IN-PERSON CONFERENCE

Scientific Agenda

08:30 - 09:00 **Onsite Registration & Seating Arrangement**

09:00 - 09:20 **Introduction & Open Ceremony**

Plenary Presentations

09:20 - 09:55	Prof. Yen-Ho Chu National Chung Cheng University, Taiwan	Small-molecule, Smart zwitterionic materials
09:55 - 10:30	Dr. He Wei Hong Sichuan University, China	RUNX1: a novel therapeutic target for myocardial infarction and cerebral infarction

10:30 - 10:50 Refreshment and Coffee

Keynote Presentations

10:50 - 11:20	Prof. Tomasz Wejrzanowski Warsaw University of Technology, Poland	Advances in materials for chemical and electrochemical energy applications
11:20 - 11:50	Zhifeng Huang The Chinese University of Hong Kong, China	Biocompatible Extracellular Nanomaterials Remodel Cell Fate to Improve Cell Therapies: Promoting Neural Stem Cell Differentiation and Immune Cell Maturation

Oral Presentations

11:50 - 12:15	Dr. Zhenggui Gu Nanjing Normal University, China	Development and application of key technology in the synthesis of polyether polyols
12:15 - 12:40	Dr. Daniel José da Silva Palacký University Olomouc, Czech Republic	Amino acids: A biomimetic tool to modify and tune surface and morphology of cellulose nanofibrils
12:40 - 13:05	Prof. Win-long Chia Fu Jen Catholic University, China	A lifetime on synthesis of nitrogen-containing liquid crystals in Taiwan
13:05 - 13:30	Dr. Aiman Mukhtar Wuhan University of Science and Technology, China	Electrochemical Deposition of metal Nanowires and Electrolysis of Iron under magnetic field

Memorable Group Photo & Selfie

13:30 - 14:15 Tempting Buffet Lunch & Photo Session

Oral Presentations

14:15 - 14:40	Dr. Lenka Matějová Institute of Environmental Technology, Czech Republic	VOCs catalytic abatement
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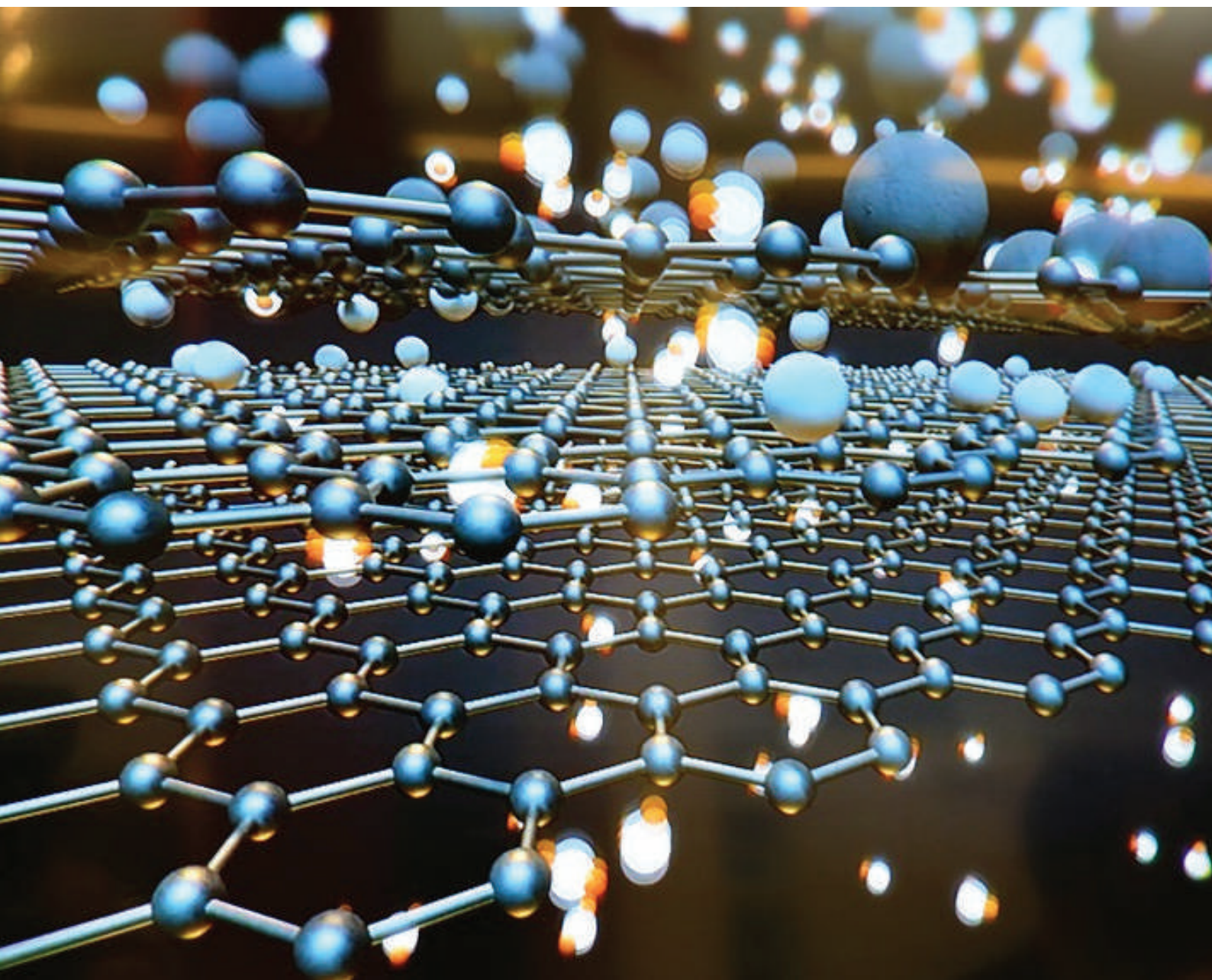
14:40 - 15:05	Dr. Annie K. Powell Karlsruhe Institute of Technology (KIT), Germany	High spin molecules at the nanoscale
15:05 - 15:30	Dr. Ronghao Bao Zhejiang University, China	Mode transition of Kagome-based flexible metamaterials
15:30 - 15:55	Dr. Eva Rauls Institute for mathematics and physics, University of Stavanger, Norway	CO ₂ Capture with supramolecular structures: Efficiency and selectivity of functionalized Pillar[n]arene and Dyn[n]arene structures
15:55 - 16:20	Dr. Omar Boualam Higher School of Technology of Fez. USMBA, Morocco	Photocatalytic degradation of phenol using Fe ₂ O ₃ @Illite nanocomposite

16:20 - 16:40 Refreshment and Coffee

Oral Presentations

16:40 - 17:05	Prof. Leelakrishna Reddy University of Johannesburg, South Africa	Optimized UV-B and UV-A Emission in BaB ₈ O ₁₃ compounds: Tailoring Gd ³⁺ Doping with Pb ²⁺ , Ce ³⁺ , and Pr ³⁺ for Phototherapy Applications
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*** End of Day 1 Conference ***



SCIENTIFIC AGENDA

DAY-2

March 06, 2026

IN-PERSON CONFERENCE

Scientific Agenda

08:30 - 08:50

Onsite Registration & Seating Arrangement

Keynote Presentations

08:50 - 09:20

Dr. Ze Yang
Beijing Forestry University, China

Thin film electrostatic adsorption damper based on triboelectric high-voltage

09:20 - 09:50

Prof. Olivier Bonnaud
University of Rennes, France

The role of the materials in micro-nanotechnologies in order to face the challenges of the digital world growth

09:50 - 10:20

Dr. Fei Deng
University of New South Wales, Australia

Advancements in CRISPR-based diagnostics

10:20 - 10:40 Refreshment and Coffee

Keynote Presentations

10:40 - 11:10

Prof. Tohru Higuchi
Tokyo University of Science, Japan

High-speed switching response of electric double layer transistor using superionic conductor thin film

11:10 - 11:40

Daxin Liang
Northeast Forestry University, China

Sustainable Lithium Recovery Through Biomass-Enhanced Composite Adsorbents: Machine Learning-Assisted Material Design and Performance Optimization

Oral Presentations

11:40 - 12:05

Dr. Yasuhiro Morisaki
Kwansei Gakuin University, Japan

Organic circularly polarized luminescence (CPL) emitters based on planar chiral [2.2] paracyclophane

12:05 - 12:30

Ms. Fangying Zhou
Beijing Forestry University, China

Charge pumping triboelectric nanogenerator with dust clearance and elastic support for wind energy harvesting

12:30 - 12:55

Prof. Mark Hoffmann
University of North Dakota, USA

Comparison of DFT functionals for computing energies and dipole moments of various amino acids

12:55 - 13:20

Dr. Songtao Hu
Jiao Tong University, China

Self-evolving discovery of lightweight and high-strength mechanical metamaterials

Memorable Group Photo & Selfie

13:20 - 14:00 Tempting Buffet Lunch & Photo Session

Oral Presentations

14:00 - 14:25

Dr. Yu Wang, South China
University of Technology, China

Advanced electron microscopy and intelligent analysis of interfacial complex structures

Poster Presentations

14:25 - 15:30

Prof. Chung Hsin Lu

National Taiwan University,
Taiwan

Synthesis and electrochemical
characterization of TiNb₂O₇ prepared using
solution based gelation process

Dr. Gedalya Mazor

SCE Shamoon College of
Engineering, Israel

The use of a temporary porous MgSO₄·7H₂O
coating to improve the mechanical properties
of steels during cryogenic treatment

Prof. Ruey-Jen Yang

National Cheng Kung University,
Tainan, Taiwan

Investigation of evaporation power
generation via changing oxygen functional
group to carbon black

Dr. Yuyang ding

China Institute of Atomic Energy,
China, Beijing

Nuclear and radio chemistry: Investigation
on irradiation-induced radiochemical &
microstructural damage of high-entropy alloy
via neutron/proton irradiation and nuclear
dosimetry (dpa)

Huilin Li

Tianjin University of Science and
Technology, China

Fluorescent NH₂-MIL-88(Fe)-stabilized
PtNPs Nanozyme for Dual-Channel “OFF-
ON” simultaneous and visual detection of
glyphosate and Pb²⁺ in Agri-environments
and foodstuffs

15:30 - 16:00 Refreshment and Coffee

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





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