

GOLDEN ACADEMY

Message from the organizers

Dear Colleagues and Friends,

Asia Pacific Society for Materials Research 2026 Annual Meeting (APSMR 2026 Annual Meeting) will be held in Hokkaido, Japan, during July 17 - July 20 2026.

The symposium will provide a conducive environment for attendees to interact, share ideas, and network with one another. It will serve as a hub for the exchange of the latest research findings, innovative methodologies, and technological advancements in the field of materials science and engineering. APSMR 2026 Annual Meeting presents an excellent opportunity to broaden your understanding, gain insights from experts in the field, and establish connections with like-minded individuals.



We would like to invite you to participate in APSMR 2026 Annual Meeting. Your active participation is the key to the success of this conference.

Yours Sincerely,

APSMR 2026 Annual Meeting Committee

Asia Pacific Society for Materials Research (APSMR)

www.apsmr.org



GOLDEN ACADEMY

Conference organizing committee

CONFERENCE PROGRAM DIRECTORS

Dr. Yingxue SONG (APSMR)

CONFERENCE CHAIRS

Dr. Yingxue SONG (APSMR)

[Prof. Yung-Kang SHEN \(Taipei Medical University\)](#)

Dr. R.T. WU (NIMS)

CONFERENCE SECRETARIAT

Ms. Yaru WU (APSMR)



GOLDEN ACADEMY

Conference topics

1. **Structure materials and Functional Coatings (metals, ceramics, and composites)**
2. **Materials for energy (saving, conversion, transfer, storage) and environment plus electrochemistry**
 - 2.1. **Photovoltaics**
 - 2.2. **Rechargeable Batteries and Fuel Cells**
 - 2.3. **Materials for Thermal Management and Thermal Energy Utilization**
 - 2.4. **Materials for Energy and Environmental Applications**
3. **Optics and Photonic Materials**
4. **Electronics, Magnetism and Nanomaterials**
5. **Polymer Science and Molecular Chemistry**
6. **Organic Materials and Bio-materials**
7. **Theory, Characterization and Computational Modeling of Materials**

	FRI, 07/17	SAT, 07/18		SUN, 07/19	MON, 07/20
9:30 – 10:30	Pre-session technical and discussion forums on international collaboration (by invitation only)	Oral Presentation			
10:30 – 10:50		Coffee & Tea Break			Oral and Discussion Session
10:50 – 11:50		Oral Presentation			
12:00 – 13:30		Lunch Break			
13:30 – 15:00		Oral Presentation		Conference Excursion	
15:00 – 15:15		Coffee & Tea Break			
15:15 – 16:15		Poster Session			
16:30 – 18:00	Conference Banquet				
	Conference Registration & Welcome Reception				

GOLDEN ACADEMY

Presentation List

	FRI, 07/17	SAT, 07/18		SUN, 07/19	MON, 07/20
9:30 – 10:30	Pre-session technical and discussion forums on international collaboration (by invitation only)	1. C.C. LIN 2. J.W. XIE		8. L.T. WU 9. K.I. LEE	
10:30 – 10:50		Coffee & Tea Break			11. Y.K. SHEN 12. S. NIWAYAMA
10:50 – 11:50		3. K. MOTOBAYASHI 4. D. CHINNADURAI		10. P. RATTANAPHANEE	Discussion Session
12:00 – 13:30		Lunch Break			
13:30 – 15:00		5. N.H. TAI 6. M. HONDA 7. L. VARGHESE		Conference Excursion	
15:00 – 15:15		Coffee & Tea Break			
15:15 – 16:15		Poster Session 16 Presentations			
16:30 – 18:00	Conference Banquet (standing reception)				
	Conference Registration & Welcome Reception				

Reception Venue:

Room 507, Maison Kita Ichijo, 10-7 Kita 1-jo Higashi 5-chome, Chuo-ku, Sapporo, Hokkaido, Japan

Conference Venue:

2-6-2, Minami 3-jo Nishi, Chuo-ku, Sapporo, Hokkaido, Japan

GOLDEN ACADEMY

[Presentations for APSMR 2026 Annual Meeting](#)

SATURDAY 07/18

1. Bioinspired Hydrogels for Wearable Healthcare: Antibacterial Wound Dressing and Body Motion Sensing (C.C. LIN)
2. Engineering New Forms of Nanofiber Materials for Biomedical Applications (J.W. XIE)
3. Role of constituent ions of ionic liquid solvents on CO₂ electroreduction studied by surface-enhanced infrared absorption spectroscopy (K. MOTOBAYASHI)
4. Designing Non-passivating Electrolytes for Rechargeable Magnesium Batteries (D. CHINNADURAI)
5. ZnO Nanorods Coated with Au Nanoparticles Perform Extremely High Sensitive Nitric Oxide Detection toward Asthma Monitoring (N.H. TAI)
6. Surface and Defect Engineering for Enhanced Photocatalysis (M. HONDA)
7. A Conductive CeO₂-doped MXene incorporated Polyelectrolyte Complex –based Hydrogel for Multifunctional Wearable Healthcare Devices (L. VARGHESE)

POSTER SESSION

- P1. Durable Lead Halide Perovskites via Designed Encapsulation Approaches for Enhanced Functionality (A.M.G. MUCHLIS)
- P2. Rare-Earth Modified Hydrogel for Enhanced Antibacterial, Self-Healing, and Sensing Application (P.M. CHANG)

GOLDEN ACADEMY

- P3. A novel method for synthesis of graphene oxide thin-film utilizing vacuum UV exposure (S.L. CHOU)
- P4. Spectroscopic Studies of MoS₂-Based van der Waals Heterostructures under Deep-UV Excitation (Y.J. WU)
- P5. Investigation of Surface Engineering Strategies for Upcycling Recycled Carbon Fibers (J. KIM & D. KIM)
- P6. Unveiling the Degradation Mechanism and Regeneration Pathways of Spent Carbon Materials for Rechargeable Batteries (J. YANG)
- P7. Molecular Behavior of PFO-Derived Pitches with Different Softening Points and Their Role in the Formation of Pitch-Coated Anthracite-Based Activated Carbon for VOC Adsorption (J.I. PARK)
- P8. Fabrication of Highly Aligned Recycled Carbon Fiber Composites Featuring Enhanced Mechanical Performance for Structural Applications (C.W. LIU)
- P9. Design of multilayer stacks for cryogenic semiconductor and quantum devices (Y.J. CHUNG)
- P10. Electric-Field-Assisted Thermal Annealing of Perovskites for Stable Resistive Memory (C.C. LEU)
- P11. Optimized Calcination Processing for High-Voltage Performance of Single-Crystal Mid-Ni NCM Cathodes in Lithium-ion Batteries (H.S. KIM)
- P12. Recovery of metal industrial-purity silicon powder from solar photovoltaic waste using acid leaching (J.B. LEE)

GOLDEN ACADEMY

- P13. Analysis of Thermally-Induced Nonlinear Optical Effects in Cobalt Ferrite-Silver Composite Nanoparticles Using Z-scan Technique (Y.S. QIU)
- P14. Electric-field-directed layer-by-layer self-assembly of Star-Shaped Polypeptide Films (C.Y. HUANG)
- P15. Highly-Oriented (CHDA)MA₂Pb₃I₁₀ Quasi-2D Dion–Jacobson Perovskites via Synergistic Process Engineering (P.S. YE)
- P16. Thermal Insulation Materials for Liquid Hydrogen (LH₂) Storage and Transportation (R. WU)

SUNDAY 07/19

8. Advanced Aerogel Materials for Thermal Management: Enabling Long-Distance Transportation and Storage of Liquid Hydrogen (L.T. WU)
9. Development of Ultra-Low Density Aerogel-Based Thermal Insulation Material and Its Application for Industrial Furnaces and Cryogenic Insulation (K.I. LEE)
10. Valorization of post-consumer polystyrene into porous activated carbon: Effects of crosslinking ratio and heating rate on pore development (P. RATTANAPHANEE)

MONDAY 07/20

11. Optimization and characterization of selective laser melted cobalt-chromium-molybdenum (Co-Cr-Mo) alloy for potential application of artificial jaw bone (Y.K. SHEN)

12. Environmentally-friendly, Cost-effective, and Highly Efficient Selective Monohydrolysis of Symmetric Diesters (S. NIWAYAMA)