



Theme:

**“Unveiling the Latest Materials
Innovation for Energy Efficiency,
Environment &
Sustainability”**

World Congress on

ADVANCED MATERIALS, ENERGY, ENVIRONMENT & SUSTAINABILITY

Dates:

July 23 & 24, 2026 (In-Person)

Venue:

Hotel NH Danube City, Vienna, Austria



Advanced Energy Materials 2026

08:00 - 08:30 Onsite Registration & Seating Arrangement
08:30 - 09:00 Introduction & Open Ceremony

Plenary Presentation

09:00 - 09:25	Prof. Lev S. Rapoport Holon Institute of Technology, Israel	Structural stability and instability during friction of FCC metals
09:25 - 09:50	Prof. Zhongfan Liu Peking University, China	Super graphene-skinned materials: concept, synthesis and applications
09:50 - 10:15	Prof. Per Arvid Löthman European University of Applied Sciences Hamburg (EURO-FH), Germany	Speak memory, speak – communication & materials in very far future

Refreshment & Coffee - 10:15 - 10:30

Keynote Presentation

10:30 - 10:55	Prof. Olivier Bonnaud University of Rennes, France	Evolution of practical training in microelectronic devices through materials to meet the new challenges of the digital world
10:55 - 11:20	Prof. Lidia Castoldi Politecnico di Milano, Italy	Valorization of waste silica for sustainable DFMs in CO2 methanation
11:20 - 11:45	Dr. Stefan H. Bossmann University of Kansas Medical Center, USA	Detection of early solid tumors with liquid biopsy
11:45 - 12:10	Prof. Richard J. Spontak North Carolina State University, USA	Charged block polymers for advanced energy technologies
12:10 - 12:35	Dr. Marina Aghayan A.B. Nalbandyan Institute of Chemical Physics, Armenia	Design and fabrication of metal, ceramic, and composite components through additive manufacturing
12:35 - 13:00	Prof. Jun Onoe Nagoya University, Japan	Science and potential applications of one-dimensional uneven-structured nanocarbon

Memorable Group Photo & Tempting Buffet lunch - 13:00 - 13:35

Keynote Presentation Cont.....

13:35 - 14:00	Prof. Eunsang Kwon Tohoku University, Japan	Structural insights into metal endohedral [C60] fullerenes and their application in high-performance capacitors
14:00 - 14:25	Dr. Alexey Krasnoslobodtsev University of Nebraska Omaha, USA	Atomically precise silver nanoclusters as quantum-confined photoluminescent materials for biomedical applications
14:25 - 14:50	Prof. Peter G. Gyarmati Stanford University, USA	Thoughts concerning artificial intelligence for you
14:50 - 15:15	Prof. Edvin Hevorkian Casimir Pulaski Radom University, Radom, Poland	Advanced nanocomposite materials synthesized by electroconsolidation: structure, properties, and applications

15:15 - 15:40	Assoc. Christl Lauterbach Future-Shape GmbH, Germany	A smart environment based on a large-area sensor floor
15:40 - 16:05	Prof. José L. Ocaña Universidad Politécnica de Madrid, Spain	The role of process design and modelling in the thermal and microstructural control of laser-assisted additive manufacture of metallic components

Refreshment & Coffee - 16:05 - 16:20

Oral Presentation

16:20 - 16:40	Dr. Gayane Tonoyan Institute of Applied Problems of Physics, NAS RA, Armenia	Mixed-amino-acid halogenobismuthates: synthesis, crystal structures and spectroscopic characterization
16:40 - 17:00	Dr. Vahram V. Ghazaryan Institute of Applied Problems of Physics, NAS RA, Armenia	New organic etidronates: a crystallographic and spectroscopic study
17:00 - 17:20	Dr. Dimitrios Kotzias Institute for Health and Consumer Protection, Italy	Smart surfaces: heterogeneous photocatalysis of priority air pollutants on TiO ₂ -based coatings in indoor and outdoor environments- a mechanistic view of the processes at the air/catalyst interface
17:20 - 17:40	Mr. Orhan Selcuk Sari McGill University, Canada	Modified alloying and processing routes on magnesium-aluminum hydrogen storage intermetallics
17:40 - 18:10	Dr. Yue Qi Beijing Graphene Institute, China	Preparation and application of graphene-skinned fiber materials
18:10 - 18:30	Prof. Paul Oconnor YERRAWA BV, The Netherlands	A catalytic technique for advanced 2D carbon materials from biomass

End of Day 1 Conference

08:00 - 08:30 Introduction & Open Ceremony

Plenary Presentation

08:30 - 08:55	Prof. Norbert Hampp University of Marburg, Germany	Periodic nanostructures self-assembled by periodic laser excitation
08:55 - 09:20	Prof. Tohru Higuchi Tokyo University of Science, Japan	All-solid-state electric double layer transistor with high switching response speed using high ionic conductor electrolyte

Refreshment & Coffee - 09:20 - 09:35

Keynote Presentation

09:35 - 10:00	Prof. Wagner A Alves Universidade Federal de Juiz de Fora, Brazil	Solvation structures in mg battery electrolytes: vibrational spectroscopic insights of interest to the electrochemistry area
10:00 - 10:25	Prof. Adam Gadomski Bydgoszcz University of Science and Technology, Poland	Quantum friction at low temperature under vacuum conditions and/or with high-pressure ice monolayer's involvement: fact or fiction?
10:25 - 10:50	Prof. Tetsuya Yamamoto Kochi University of Technology, Japan	Materials design of conductive oxide semiconductor films to achieve high carrier transport for meeting a wide range of applications
10:50 - 11:15	Prof. Mineo Hiramatsu Meijo University, Japan	Plasma-engineered three-dimensional graphene architectures: a process-structure-property perspective
11:15 - 11:40	Dr. Jakub Skoczylas Lublin University of Technology, Poland	Performance of energy harvesting using composite-based piezoelectric nanogenerators
11:40 - 12:05	Prof. Elza Khutsishvili F. Tavadze Institute of Metallurgy and Materials Science, Georgia	Rapid thermal annealing effect on infrared lattice vibrations in InP
12:05 - 12:30	Prof. Ge Wang University of Science and Technology Beijing, China	LLM-Driven discovery of metal-organic frameworks: from generative design to laboratory realization
12:30 - 12:55	Prof. Roie Yerushalmi Hebrew University of Jerusalem Edmond J Safra Campus, Israel	Hybrid functional materials by atomic and molecular layer deposition – from conductive oxides to high performance polymer reinforced composites

Oral Presentation

12:55 - 13:15	Dr. Jincan Zhang Soochow University, China	Chemical vapor deposition synthesis of high-quality graphene films and its applications in transmission electron microscope imaging
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Memorable Group Photo & Tempting Buffet lunch - 13:15 - 13:50

Oral Presentation

13:50 - 14:10	Ms. Preeti Maiti University of Central Florida, USA	Seamless plasmid DNA delivery into the plant cells using zein protein particles
14:10 - 14:30	Prof. Yoshikazu KOBAYASHI Nihon University, Japan	Acoustic emission tomography with consideration of attenuated and diffracted waves

14:30 - 14:50	Prof. Bernd Szyszka Technische Universität Berlin, Berlin	New concepts for PVD synthesis of electrical and optical films utilizing the advantage of low energy and high ion current plasma activation
14:50 - 15:10	Mr. Tomohiro Yabuki Tokyo University of Science, Japan	Fundamental structure of oxide semiconductor sc:TiO ₂ thin film and its resistive switching function
15:10 - 15:30	Ms. Mikika Furukawa Nihon University, Japan	Validation of the grouping elastic waves method on damaged concrete fence
15:30 - 15:50	Dr. Jae Young Joo Korea Photonics Technology Institute, Republic of Korea	Fabrication of patterns using laser direct irradiation and its illumination applications

Refreshment & Coffee - 15:50 - 16:05

Oral Presentation Cont.....

16:05 - 16:25	Prof. Antonio Brencich University of Genoa, Italy	Concrete from recycled aggregates only: perspectives and limits
16:25 - 16:45	Prof. Waltraud Kriven University of Illinois at Urbana-Champaign USA	Geopolymers and their potential applications
16:45 - 17:05	Dr. Luzhao Sun Beijing Graphene Institute, China	Layer and stacking controlled epitaxial growth of graphene films
17:05 - 17:25	Prof. W.H. Katie Zhong Washington State University, USA	Abundant natural proteins for functional material applications in nanocomposites, energy storage and environment

Poster Evaluation and Best Poster Awards - 17:25 - 17:45

GM261	Prof. Jong-Tae Son Korea National University of Transportation, Republic of Korea	Enhanced Separation-Free Recycling of Spent NCM Cathodes via Selective Copper Sulfidation
AEM261	Prof. Ying Huang Lai Tunghai University, Taiwan	Electronic structure engineering of Ir(IV)-few-layer g-C ₃ N ₄ interfaces for high atomic utilization in acidic oxygen evolution reaction

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

Our Partner Conferences 2026-27

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NBC (Nano Budapest 2026)

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Tokyo, Japan | 26–28 October 2026

Nanotech Asia 2026

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Hong Kong | 09–11 November 2026

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Materials World 2027

<https://materialsworld.scientifink.com/>

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Materials Innovation 2027

<https://advancedmaterials.annualforums.com/>

Berlin, Germany | 25–26 March 2027

Materials Info 2026

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Smart Materials 2027

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Functional Materials 2027

<https://functionalmaterials.annualforums.com/>

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Future Mats 2027

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