



Global Conference on

MATERIALS SCIENCE AND ENGINEERING

Dates:

July 23 & 24, 2026 (In-Person at Vienna)

Venue:

Hotel NH Danube City, Vienna, Austria

Theme:

“Integrating Advanced Materials Research and Engineering Practices to Accelerate Industrial and Societal Transformation”



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

Plenary Presentation

09:30 - 10:00	Prof. Lev S. Rapoport Holon Institute of Technology, Israel	Structural stability and instability during friction of FCC metals
10:00 - 10:30	Prof. Zhongfan Liu Peking University, China	Super graphene-skinned materials: concept, synthesis and applications

Refreshment & Coffee - 10: 30 - 10:50

Keynote Presentation

10:50 - 11:15	Prof. Lidia Castoldi Politecnico di Milano, Italy	Valorization of waste silica for sustainable DFMs in CO2 methanation
11:15 - 11:40	Dr. Stefan H. Bossmann University of Kansas Medical Center, USA	Detection of early solid tumors with liquid biopsy
11:40 - 12:05	Prof. Richard J. Spontak North Carolina State University, USA	Charged block polymers for advanced energy technologies
12:05 - 12:30	Dr. Marina Aghaya A.B. Nalbandyan Institute of Chemical Physics, Armenia	Design and fabrication of metal, ceramic, and composite components through additive manufacturing
12:30 - 12:55	Prof. Jun Onoe Nagoya University, Japan	Science and potential applications of one-dimensional uneven-structured nanocarbon

Memorable Group Photo & Tempting Buffet lunch - 12: 55 - 13: 40

Keynote Presentation Cont.....

13:40 - 14:05	Prof. Eunsang Kwon Tohoku University, Japan	Structural insights into metal endohedral [C60] fullerenes and their application in high-performance capacitors
14:05 - 14:30	Dr. Alexey Krasnoslobodtsev University of Nebraska Omaha, USA	Atomically precise silver nanoclusters as quantum-confined photoluminescent materials for biomedical applications
14:30 - 14:55	Prof. Peter G. Gyarmati Stanford University, USA	Thoughts concerning artificial intelligence for you
14:55 - 15:20	Prof. Edvin Hevorkian Casimir Pulaski Radom University, Radom, Poland	Advanced nanocomposite materials synthesized by electroconsolidation: structure, properties, and applications
15:20 - 15:45	Assoc. Christl Lauterbach Future-Shape GmbH, Germany	A smart environment based on a large-area sensor floor

Oral Presentation

15:45 - 16:05	Prof. Waltraud Kriven University of Illinois at Urbana-Champaign USA	Geopolymers and their potential applications
16:05 - 16:25	Dr. Luzhao Sun Beijing Graphene Institute, China	Layer and stacking controlled epitaxial growth of graphene films
16:25 - 16:45	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

16:45 - 17:05	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
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Refreshment & Coffee - 17:05 - 17:25

Oral Presentations Cont.....

17:25- 17:45	Dr. Orhan Selcuk Sari McGill University, Canada	Modified alloying and processing routes on magnesium-aluminum hydrogen storage intermetallics
17:45 - 18:05	Dr. Yue Qi Beijing Graphene Institute, China	Preparation and application of graphene-skinned fiber materials
18:05 - 18:25	Prof. Paul Oconnor YERRAWA BV, The Netherlands	A catalytic technique for advanced 2D carbon materials from biomass

End of Day 1 Conference

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

Plenary Presentation

09:30 - 10:00 **Prof. Per Arvid Löthman**
European University of Applied Sciences
Hamburg (EURO-FH), Germany
Speak memory, speak – communication & material
in very far future

Refreshment & Coffee - 10: 00 - 10:20

Keynote Presentation

10:20 - 10: 45 **Dr. Tatiana Itina**
Hubert- Curien Laboratory, France
Multiscale Mechanisms for Femtosecond Laser-
Assisted Nanoscale Material Modifications

10:45 - 11:10 **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

11:10 - 11:35 **Prof. Changguo Wang**
Harbin Institute of Technology, China
Mechanical-Electrochemical Failure of Li-ion
batteries with Si-C composite electrodes

11:35 - 12:00 **Prof. Janusz Kozinski**
A.B. Nalbandyan Institute of Chemical
Smart Materials for Hydrogen Generation via
Hydrothermal Processing

12:00 - 12:25 **Prof. Wei Chen**
Xi'an Jiaotong-Liverpool University, China
The Invention of Copper Cysteamine Illuminating
Many Areas

12:25 - 12:50 **Prof. Isabel Montero**
ICMM CSIC, Spain
Recent Advances in Low-Secondary Electron
Emission Yield for RF-Breakdown Free Devices

Memorable Group Photo & Tempting Buffet lunch - 12: 50 - 13: 35

Oral Presentation

13:35 - 13:55 **WU Xiaodong**
Suzhou Institute of Nano-Tech and
Nano-Bionics, CAS, China
Preparation and Application of Polymer Solid-State
Electrolyte

13:55 - 14:15 **Edgardo Roque Benavidez**
National Technological University,
Argentina
Iron-Based Metal Matrix Composites for Applications
in Agro-Industry Tools

14:15 - 14:35 **Yongkang Han**
Northwestern Polytechnical University, China
Directional Moisture-Wicking Janus Graphene Fiber
Nonwovens for Synergistic Evaporative Cooling and
Ultrafast Joule Heating

14:35 - 14:55 **Mr. Hotae Jeon**
Hongik University, Republic of Korea
Strain-Tunable Electronic Structure of Layered PtSe₂
for High-Performance Hydrogen Evolution Catalysis

Refreshment & Coffee - 14: 55 - 15: 15

Oral Presentation Cont.....

15:15- 15:35 **Dr. Wenyao Li**
University of Science and Technology
Beijing, China
Deciphering the Function of Trace Rare-Earth
Elements in Corrosion Inhibition

15:35 - 15:55 **Dr. Ang-yang Yu**
Baise University, China
Seeking a microwave absorption material in the realm
of agriculture

15:55 - 16:15 **Dr. Xinrui Wang**
Nanyang Technological University,
Singapore
Scalable Hierarchical Micro/Nanostructuring of
Additively Manufactured 316L Stainless Steel for High-
Performance Multifunctional Interfaces

16:15 - 16:35	Prof. Abdelhak Maghchiche Department of pharmacy , university Batna2-Algeria, Algeria	Esparto Cellulose Capsules: Materials and Process Integration
16:35 - 16:55	Prof. Daniel Adu Jiangsu University, China	Strategic Thinking on Development of Small Hydro- power in sub-Saharan Africa Based on Development in EU 27
16:55 - 17:15	Prof. Syeda Fareesa Hassan Yuan Ze University, Taiwan	Sustainable ZrO ₂ -Functionalized MCM-41 from Rice Husk
17:15 - 17:35	Prof. Yue Fan University of Michigan, US	MACHINE LEARNING-AUGMENTED MODELING ON THE FORMATION OF NON-CONVENTIONAL NANO- PRECIPITATES IN FAST SOLIDIFIED AL ALLOYS
17:35 - 17:55	Prof. Ahmed Hassaan Nile University, Egypt	Green Preparation of Multifunctional Nanostructures Achieving >95% Efficiency in Energy Harvesting and Environmental Remediation

End of Day 1 Conference

09:00 - 09:30 Introduction & Open Ceremony

Plenary Presentation

09:30 - 10:00	Prof. Norbert Hampp University of Marburg, Germany	Periodic nanostructures self-assembled by periodic laser excitation
10:00 - 10:30	Prof. Tohru Higuch Tokyo University of Science, Japan	All-solid-state electric double layer transistor with high switching response speed using high ionic conductor electrolyte

Refreshment & Coffee - 10:30 - 10:50

Keynote Presentation

10:50 - 11:15	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
11:15 - 11:40	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?
11:40 - 12:05	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
12:05 - 12:30	Prof. Mineo Hiramatsu Meijo University, Japan	Plasma-engineered three-dimensional graphene architectures: a process-structure-property perspective
12:30 - 12:55	Prof. Jakub Skoczylas Lublin University of Technology, Poland	Performance of energy harvesting using composite-based piezoelectric nanogenerators
12:55 - 13:20	Prof. Elza Khutsishvili F. Tavadze Institute of Metallurgy and Materials Science, Georgia	Rapid thermal annealing effect on infrared lattice vibrations in InP

Memorable Group Photo & Tempting Buffet lunch - 13:20 - 14:05

Oral Presentation

14:05 - 14:25	Dr. Jincan Zhang Soochow University, China	Chemical vapor deposition synthesis of high-quality graphene films and its applications in transmission electron microscope imaging
14:25 - 14:45	Prof. W.H. Katie Zhong Washington State University, USA	Abundant natural proteins for functional material applications in nanocomposites, energy storage and environment
14:45 - 15:05	Ms. Preeti Maiti University of Central Florida, USA	Seamless plasmid DNA delivery into the plant cells using zein protein particles
15:05 - 15:25	Prof. Yoshikazu KOBAYASHI Nihon University, Japan	Acoustic emission tomography with consideration of attenuated and diffracted waves
15:25 - 15:45	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
15:45 - 16:05	Mr. Tomohiro Yabuki Tokyo University of Science, Japan	Fundamental structure of oxide semiconductor sc:TiO ₂ thin film and its resistive switching function

Refreshment & Coffee - 16:05 - 16:25

Oral Presentation Cont.....

16:25- 16:45	Mrs. Mikika Furukawa Nihon University, Japan	Validation of the grouping elastic waves method on damaged concrete fence
16:45 -17:05	Dr. Jae Young Joo Korea Photonics Technology Institute, Republic of Korea	Fabrication of patterns using laser direct irradiation and its illumination applications
17:05 - 17:25	Prof. Antonio Brencich University of Genoa, Italy	Concrete from recycled aggregates only: perspectives and limits

Poster Evaluation and Best Poster Awards - 17:25- 17:55

GM261	Prof. Jong-Tae Son Korea National University of Transportation, Republic of Korea	Enhanced separation-free recycling of spent NCM cathodes: optimizing redox leaching and 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

09:00 - 09:30 Introduction & Open Ceremony

Plenary Presentation

09:30 - 10:00	Jyh-Ming Ting National Cheng University, Taiwan	High-performance Electrocatalysts for Anion Exchange Membrane Water Electrolyzer (AEMWE) in Hydrogen Production
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Refreshment & Coffee - 10:00 - 10:30

Keynote Presentation

10:30 - 10:55	Ge Wang University of Science and Technology Beijing, China	LLM-Driven Discovery of Metal-Organic Frameworks: From Generative Design to Laboratory Realization
10:55 - 11:20	Qiaoliang Bao University of Shanghai for Science and Technology, China	Transformation of confined-space photonics into industrial-level applications
11:20 - 11:45	Yingying ZHANG Tsinghua University, Beijing, China	A New Silk Road towards Smart Wearables
11:45 - 12:10	Dr. Ezendu Ariwa University of Wales Trinity Saint David, UK	Artificial Intelligence (AI) integrated Green Technologies Applications in Engineering Enterprise Sustainability
12:10 - 12:35	Prof. Winny Maboya University of South Africa, South Africa	Fascinating role of chlorine in creating defects in carbon nanomaterials and their electrochemical applications
12:35 - 13:00	Prof. Valeh Shamilov State Oil Company of Azerbaijan Republic, Azerbaijan	Development of a Nanopolymer Reagent Based on Carboxymethyl Cellulose and Multi-Walled Carbon Nanotubes for Enhanced Oil Recovery

Memorable Group Photo & Tempting Buffet lunch - 13:00 - 13:45

Oral Presentation

13:45 - 14:05	Jingyu Sun Soochow University, China	Versatility of Direct-CVD Graphene in Emerging Energy Devices
14:05 - 14:25	Yanfeng Zhang Peking University, China	Wafer-Scale Syntheses and Growth Mechanism Exploration of Semiconducting Transitional Metal Dichalcogenides
14:25 - 14:45	Prof. Yong Zhou Nanjing University, China	Solar Light-driving Photoconversion of CO ₂ into Renewable Hydrocarbon Fuels
14:45 - 15:05	Prof. José Roberto García Chávez Metropolitan Autonomous University, Mexico	Potential of Natural Light to Mitigate Adverse Metabolic Effects of Night Shift Workers
15:05 - 15:25	Dr. Ghalayini (Hanuseac) Ligia Georgiana 1Evaluris Solutions FZCO, Dubai	AGL – an AI-ESG method for evaluation of eco-concretes and sustainable structures
15:25 - 15:45	Jin Lin Northwestern Polytechnical University, China	Efficient electroreduction of carbonyl compounds to alcohols over Fe/Fe ₂ O ₃ interfaces

Refreshment & Coffee - 15:45 - 16:05

16:05 - 16:25	He Jiaxin Northwestern Polytechnical University, China	Elucidating crystal-facet behaviors of Cerium dioxide for Pd/CeO _{2-x} catalyst on selective hydrogenation of alkynols
16:25 - 16:45	Rui Bai Northwestern Polytechnical University, China	Strong Electron-Withdrawing Effect Activates Metal-Free Carboxylate Anion into Efficient Active Sites for Electrocatalytic Acetylene Semihydrogenation
16:45 - 17:05	Jiahe Chen Northwestern Polytechnical University, China	Structural Design and Performance Study of MXene-based Flexible SERS Substrates
17:05 - 17:25	Chergui Yahia Mhamd Bougara University, Algeria	Comparative Study of ZnO Wurtzite, Rocksalt, and Zinc Blende Structures Under Isobaric and Isothermal Ensembles; a Molecular Dynamics Computation

Poster Evaluation and Best Poster Awards - 17:25- 17:55

GM261	Prof. Jong-Tae Son Korea National University of Transportation Republic of Korea	Enhanced separation-free recycling of spent NCM cathodes: optimizing redox leaching and selective copper sulfidation
AEM262	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
AM263	Thi Xuyen Nguyen National Cheng Kung University, Taiwan	Ligand-Engineered MOF Electrocatalyst as An Energy-efficient Urea-assisted Hydrogen Generation

*****Slots Available*****

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



Annualforums, LLC
2524 N Broadway Ste 554
Edmond, Oklahoma 73034 US

