

# European Advanced Energy Materials Congress

69<sup>th</sup> Assembly of **IAAM Fellow Summit, AMC**

## Symposium 01. Renewable and Sustainable Energy Materials

### Chair(s) and Keynote Speakers:

- Saniya LeBlanc, The George Washington University, USA
- Priyanka Kaushal, Indian Institute of Technology (IIT Delhi), India
- Giulia Grancini, University of Pavia, Italy

This symposium highlights advanced materials enabling renewable and sustainable energy technologies. It brings together researchers and experts to discuss innovations in materials design, synthesis, and applications for solar, wind, and energy storage systems, with a focus on improving energy efficiency and long-term sustainability. The symposium promotes collaboration and knowledge exchange to accelerate the transition to a clean, sustainable energy future.

## Symposium 02. Batteries, Supercapacitors, and Energy Storage Systems

### Chair(s) and Keynote Speakers:

- Jamie Warner, The University of Texas at Austin, USA
- Jijian Xu, City University of Hong Kong, Hong Kong
- Carlos Frajuca, IFSP, Rio Grande Federal University, Brazil

This symposium highlights advances in battery and supercapacitor materials, device design, and system integration for efficient and reliable energy storage. It focuses on next-generation storage technologies that improve performance, safety, lifetime, and sustainability, supporting renewable energy, electric mobility, and grid-scale applications.

## Symposium 03. Energy Harvesting and Conversion

### Chair(s) and Keynote Speakers:

- Wilson Chiu, University of Connecticut, USA
- Jiyun Zhao, City University of Hong Kong, Hong Kong
- Arghya Narayan Banerjee, Yeungnam University, Republic of Korea

This symposium focuses on materials and technologies for harvesting and converting energy from ambient and renewable sources. Emphasis is placed on improving efficiency, scalability, and sustainability for self-powered systems, flexible electronics, and next-generation renewable energy solutions.

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## Symposium 04. Solar Cells and Photovoltaic Technologies

### Chair(s) and Keynote Speakers:

- Kun Wang, University of Miami, USA
- Pedro Venezuela, Universidade Federal Fluminense, Brazil
- Petr Pokorný, FZU - Institute of Physics of the Czech Academy of Sciences, Czech Republic
- Amreesh Chandra, Indian Institute of Technology Kharagpur, India

This symposium examines solar cell and photovoltaic technologies as key drivers of the global net-zero transition. It highlights advances in PV materials, device architectures, and system integration that enable efficient, scalable, and cost-effective solar energy deployment.

## Symposium 05. Hydrogen and Fuel Cell Technologies

### Chair(s) and Keynote Speakers:

- Elena Pastor, University of La Laguna, Spain
- Karina Suarez-Alcantara, Universidad Nacional Autónoma de México, (UNAM), Mexico
- Jiajun Zhang, Chinese Academy of Sciences, China

This symposium explores hydrogen and fuel cell technologies for deep decarbonization of industry, transport, and energy systems. Topics include low-carbon hydrogen production, storage, fuel cell innovation, infrastructure development, and pathways toward large-scale commercialization.

## Symposium 06. Smart Materials for Energy Efficiency

### Chair(s) and Keynote Speakers:

- Hong Jin Fan, Nanyang Technological University, Singapore
- Jiang Du, University of California, San Diego, USA
- Shizuyo Sutou, Shujitsu University, Japan

This symposium focuses on smart and adaptive materials that enhance energy efficiency across buildings, mobility, and industrial systems. It highlights materials that respond to environmental conditions to reduce energy demand, improve performance, and support net-zero and climate-neutral goals.