



Next-Generation Materials for Energy Applications
 in partnership with the Collaborative Innovation Center of Chemistry for Energy Materials
 (iChEM), Xiamen University
 November 17–19, 2019 — Xiamen, China

Cell Symposium: Next-Generation Materials for Energy Applications in partnership with the Collaborative Innovation Center of Chemistry for Energy Materials (iChEM), Xiamen University.

One of the world's most pressing challenges is the need for clean, sustainable energy. We have a limited timescale to implement sustainable energy solutions at a global scale to mitigate potentially catastrophic climate change and pollution.

Further, millions of people around the planet still lack access to reliable electricity. In 2015, the UN announced 17 Sustainable Development Goals, with Goal 7 – Affordable and Clean Energy for all – aiming to ensure universal clean energy for everyone by 2030.

To meet the energy challenge, there is a need for scientific and technological breakthroughs and advances with a clear pathway to real-world impact. Researchers around the world are responding, investigating sustainable and clean molecular and materials systems for energy generation and storage.

In this landmark Cell Symposium, “New Materials for Energy Applications,” leading international experts will come together to present and discuss the latest fundamental and applied research breakthroughs, spanning conceptual advances and outstanding performance results, in topics which include but are not limited to:

Solar Energy Conversion

- Perovskite solar cells
- Organic photovoltaics
- Other photovoltaic technologies

Energy Storage

- Electrochemical energy storage and conversion materials, including Li-ion batteries and new storage materials
- Grid-scale storage, including flow batteries

Nanocatalysis

- HER, OER, ORR
- CO₂ reduction to CO, CH₄, and methanol
- N₂ reduction to ammonia
- Single-atom catalysis

Gas Storage and Activation (CO₂, H₂, Natural Gas)

- Metalorganic framework
- Covalent organic frameworks
- Zeolites

Each session will bring the latest developments within the fields from both an experimental and theory perspective. Attendees to the Cell Symposium will see and discuss how cutting-edge developments at the molecular and materials scale may positively impact society in the future.

The prime objective of this Cell Symposium is to bring communities together, under a common goal, to foster collaboration and drive the search for new energy solutions forward.

<http://www.cell-symposia.com/energymaterials-2019/>

a nature conference

Solar Fuels

Wuhan University of Technology | Nature Energy | Nature Catalysis | Nature Materials | Communications Chemistry | Nature Communications | Nature Nanotechnology



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Wuhan University of Technology, *Nature Energy*, *Nature Catalysis*, *Nature Materials*, *Communications Chemistry*, *Nature Communications*, and *Nature Nanotechnology* are pleased to present:

Solar Fuels

October 12–14, 2019
 Inter Continental Wuhan, China

