



Hybrid Materials for Energy Conversion and Storage: Solar Cells, Batteries and Fuel Cells

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Deadline for manuscript
submissions:

8 October 2024

Message from the Guest Editors

Dear Colleagues,

As the unique combination of properties that can be attained from the inorganic and organic components, hybrid materials play an important role in energy storage and conversion, offering great promise to address the rapidly growing environmental concerns and the increasing global demand for energy. Exploring advanced hybrid materials is critical to meet the increasing demands for high-performance energy storage and conversion devices with the advantages of high conversion efficiency, high energy density, long lifespan, high safety, low cost, and sustainability. This research topic focuses on the synthetic methods, characterizations, theoretical calculations, and mechanism investigations of advanced hybrid materials for energy conversion and storage, including different strategies, methods, and applications. The research areas may include, but are not limited to, the following:

- Hybrid materials;
- Energy storage and conversion devices;
- Different kinds of battery including Li/Na/K/Mg batteries;
- Materials and new devices for solar cells;
- Hybrid catalyst for fuel cells.





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