



Advanced Materials and Devices for Energy Application

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Global demand for portable electronics and electric vehicles stimulates the development of energy storage devices (batteries, capacitors, etc.) toward higher power and energy density that significantly rely on the advancement of materials used in these devices. Additionally, energy storage materials significantly contribute to clean and renewable energy and have drawn intensive attention from research and development to industrialization. To realize the potential of energy technologies, radical advances in materials and devices are required.

This Special Issue will focus on experimental advances and theoretical developments in the field of energy storage materials, devices, and systems.

Topics of interest for publication include but are not limited to:

- Energy storage system (thermal, mechanical, electrochemical, and hydrogen);
- Advanced energy materials (semiconductors, superconductors, ceramics, etc.);
- Carrier transport and computational;
- Advanced characterization of energy materials;
- Data science integration for advancing materials for energy application.





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Message from the Editor-in-Chief

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