

Special Issue

Innovative Research on Battery Materials and Their Applications

Message from the Guest Editor

The development of new materials is crucial for the progress towards next-gen batteries that can successfully power a wide range of devices including electronics, electric vehicles, power tools, renewable energy storage solutions, etc. Besides performance, the ecological aspects are carefully considered and environmentally friendly materials are being proposed to reduce the ecological impact of battery production and disposal. "Innovative Research on Battery Materials and Their Applications" aims to highlight original studies in the field of battery materials for different technologies including Li-ion, Na-ion, K-ion, solid-state, flow batteries, etc.,

This Special Issue focuses on the following topics:

- Sustainable Materials for Next-Generation Batteries;
- Innovative Anode/Cathode Materials for Enhanced Batteries;
- Rechargeable Alkali-Ion Battery Materials;
- Battery Materials for Electric Vehicles and Renewable Energy Storage;
- Sustainable Electrolytes for Safer and More Efficient Batteries;
- Solid-State Batteries: Challenges and Advancements;
- Recycling and Reuse of Battery Materials;
- Flow Batteries in Renewable Energy Storage.

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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