

Special Issue

Materials, Application and Management of Lithium Batteries for Sustainable Energy Storage

Message from the Guest Editors

Recently, the tremendous efforts have been devoted to the improvement of lithium-ion batteries. Science and technology advances may also enable revolutionary new battery systems. Multidisciplinary approaches including electrochemistry, materials engineering, dynamic modeling, and systems/controls engineering will lead the future development of next-generation batteries. We welcome contributions from researchers and experts working in the field of lithium-ion batteries and beyond. Topics of interest may include, but are not limited to:

- Lithium-ion batteries and beyond;
- Organic and inorganic electrode materials or components for batteries;
- Machine learning for atomic-scale modeling and electrode prediction;
- Advanced in situ characterization techniques for real-time analysis of electrodes;
- Battery modeling, simulation, management and application;
- Prognostics and life-cycle evaluation for the health of batteries;
- Reliability of battery components for energy storage applications;
- Multidisciplinary approach for developing novel batteries;
- Control and estimation algorithms for battery systems.

Guest Editors

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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