



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

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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