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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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.

Editor-in-Chief

Prof. Dr. Marc A. Rosen
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