

Special Issue

Challenges and Future Trends of Lithium-Ion Battery

Message from the Guest Editor

Energy is an indispensable key component of life. Rechargeable lithium-ion batteries (LIBs) have received a great deal of attention as they enable the development of versatile electronic devices, microgrids, and electric vehicles. This *Sustainability* Special Issue aims to highlight the collection of novel works on LIBs which significantly improve safety, sustainability, and long-term cycling stability with high energy density and low cost. It will bring an in-depth fundamental understanding of the cell design principle for the practical applications of LIBs and beyond. The facile and cost-effective material manufacturing and synthesis process, nanofabrication, and the surface functionalization of anode/cathode materials will be included. Additionally, the solid electrolyte formation mechanism, the degradation of battery components such as anode/cathode electrodes, electrolytes, separators during charge/discharge, and the corresponding advanced structural and electrochemical characterization tools, and modeling/simulation techniques to understand will be included...

Guest Editor

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Deadline for manuscript submissions

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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. 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

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