

Special Issue

Intelligent Battery Energy Storage Management: Enhancing Performance, Safety, and Sustainability

Message from the Guest Editors

Lithium-ion batteries, as a critical component of modern energy storage systems, play an indispensable role in facilitating the transition towards sustainable energy sources. However, the performance optimization and safety enhancement of batteries remain significant challenges in practical applications. Indeed, accurate and reliable battery operation is key to enhancing battery safety, durability, and reliability. These measures are primarily manifested in intelligent management, including accurate "SOX" estimation, early warning and fault diagnosis, energy management and life extension strategies, retired battery sorting, etc. Advances in these areas can not only improve battery performance and lifespan but also ensure safety during use, thereby driving the development and application scope of battery technology. Thus, we propose the Special Issue, titled "Intelligent Battery Energy Storage Management: Enhancing Performance, Safety, and Sustainability". The initiative aims to unite scholars focused on similar topics, providing a platform to present their most recent accomplishments and research findings.

Guest Editors

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Deadline for manuscript submissions

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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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