

## Special Issue

# Intelligent Control, Optimization and Management of Sustainable Battery Energy Storage System

### Message from the Guest Editors

Lithium-ion batteries play a crucial role in modern battery energy storage systems, and their rational utilization is vital for the global energy landscape shifting towards a sustainable development direction. However, due to the extremely complex application environment and the strong non-linearity and time-varying characteristics of lithium-ion batteries, the safety, durability, and reliability of the battery system remain significant challenges in real-world scenarios.

Progresses in these areas can not only significantly enhance battery efficiency and service life but also ensure operational safety, thereby accelerating the development of modern energy storage technology and enhancing its sustainability. To this end, we propose a Special Issue titled "Intelligent control, optimization and management of sustainable battery energy storage system". This issue aims to bring together researchers and engineers working on related topics, providing a cutting-edge platform to share innovative methods and significant research findings. We cordially invite submissions of original research papers, review articles, and interdisciplinary reports.

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### Guest Editors

Prof. Dr. Bin Duan

Dr. Rui Zhu

Dr. Qi Zhang

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### Deadline for manuscript submissions

22 May 2026



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### Editor-in-Chief

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