

Special Issue

Innovative Research on Lithium-Ion Battery Materials for Sustainable Applications

Message from the Guest Editors

This Special Issue, entitled “Innovative Research on Lithium-Ion Battery Materials for Sustainable Applications”, published in the “Energy Sustainability” section of Sustainability, invites contributions addressing the pressing global need for clean energy solutions. This issue focuses on cutting-edge developments in lithium-ion battery technology and beyond, as a key enabler in transitioning to low-CO₂ energy systems.

The issue emphasizes safety, performance, and sustainability in battery materials' design, recycling, and application. Contributions may cover innovative electrode and electrolyte chemistries, advanced characterization and diagnostic techniques, and circular economy strategies for battery reuse and recycling. Moreover, the Special Issue encourages submissions that explore the integration of batteries with renewable energy systems, grid storage applications, and strategies to enhance energy efficiency and life cycle sustainability.

This Special Issue offers a platform for researchers to disseminate recent advances and promote international collaboration in the field of sustainable energy storage.

Guest Editors

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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. *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

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