Special Issue

Green Battery Revolution for Sustainable Development

Message from the Guest Editors

The global shift towards decarbonization and renewable energy adoption is transforming the energy landscape. As intermittent renewable energy sources such as solar and wind become increasingly dominant, energy storage technologies have emerged as indispensable components of modern energy systems. Among these. electrochemical batteries—especially lithium-ion batteries (LIBs)—have revolutionized portable electronics, electric vehicles (EVs), and grid-scale energy storage. This research aims to contribute to the scientific and technological foundations of green battery solutions by investigating [e.g., low-impact electrode materials, scalable recycling methods, second-life applications, etc.]. Ultimately, the goal is to advance battery systems that not only deliver high performance but also align with long-term environmental, economic, and social sustainability. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

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Editor-in-Chief

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