Special Issue

Advances in Battery Discharging and Charging Characteristics

Message from the Guest Editors

Given the challenges of global climate change and environmental pollution, the shift toward a low-carbon society is now imperative. Batteries, as the primary energy storage solution for electrified transportation systems and renewable energy systems, play a pivotal role in advancing decarbonization efforts. However, as batteries undergo repetitive charging and discharging cycles, their electrochemical performance and energy storage capacity gradually degrade. Exploring the intricate dynamics of battery charging and discharging behaviors holds immense potential in enhancing battery health management and facilitating battery reliability. This Special Issue aims to publish the latest research achievements in the analysis, design, and optimization of battery systems in terms of various charging and discharging characteristics. We invite researchers and industry experts to contribute their original research to this Special Issue, ensuring a comprehensive coverage of the aforementioned topics and providing valuable insights into the development of battery systems.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

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