Special Issue

Comprehensive Design and Optimization of Electrode Materials for Lithium- and Sodium-Ion Energy Storage Systems

Message from the Guest Editors

This Special Issue of Energies, “Performance Optimization and Structural Regulation of Cathode Energy Materials for Lithium/Sodium-Ion Batteries,” aims to provide a platform for disseminating the latest research findings and innovations in this field. The focus will be on novel techniques, materials, and applications that enhance the efficiency, reliability, and sustainability of cathode materials. We invite submissions on a wide range of topics, including but not limited to:

- Development of novel cathode materials for lithium/sodium-ion batteries
- Structural regulation techniques to improve electrochemical performance
- Optimization methods for energy density, cycle stability
- Defect engineering and surface modification strategies
- Advanced characterization techniques for cathode materials
- Multiscale modeling and simulation of energy materials
- Integration of cathode materials in full-cell configurations
- Thermal and mechanical stability of cathode materials

Guest Editors

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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.

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