

Special Issue

Energy Storage, Energy Conversion, and Multifunctional Materials 2024 - 2025

Message from the Guest Editor

This Special Issue aims to present the state-of-the-art of energy storage systems and technologies that are mainly related to power systems and EVs, by considering the role of energy storage in its whole scale, including research and new trends, material use, manufacturing process, operational characteristics, recycling and life cycle assessment (LCA).

- energy storage and conversion
- batteries lithium batteries
- solid-state batteries
- short-term and long-term energy storage
- electric vehicles (EVs)
- supercapacitors/ultracapacitors
- flywheels
- pumped hydro storage
- superconducting magnetic energy storage (SMES)
- thermal energy storage
- hydrogen storage and fuel cells
- autonomous power systems
- renewable energy sources
- smart grids
- distributed energy resources (DERs)
- demand side management
- low-cost materials
- life cycle assessment (LCA) of energy storage
- recycling of energy storage technologies

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2025)



Energies

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Impact Factor 3.2
CiteScore 7.3



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About the Journal

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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