Special Issue

Advanced Energy Storage Technologies and Applications (AESAs), 2nd Edition

Message from the Guest Editors

As global energy demand surges, advanced energy storage technologies and intelligent transportation systems are key to tackling decarbonization and sustainability. Energy storage plays a pivotal role in integrating renewable energy sources, enhancing grid stability, and facilitating the electrification of the transport sector. Ongoing innovation in these areas not only contributes to a reduction in carbon emissions but also ensures the efficient and resilient operation of future energy systems. This Special Issue aims to highlight cutting-edge research and technological advancements in energy storage and intelligent transportation. We invite contributions that explore novel materials, systems, and methods that push the boundaries of our current capabilities. Submissions may include theoretical, experimental, and review papers that provide valuable insights into the latest trends and future directions in these fields. Topics of interest include, but are not limited to, the following:

- Energy storage;
- Power and energy systems;
- Electrified/intelligent transportation;
- Batteries and management;
- Motor and control;
- Power electronics;
- AI and big data applications.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)

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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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