Special Issue

Advanced Energy Storage Technologies and Applications (AESAs)

Message from the Guest Editors

This Special Issue is open to all types of energy (such as thermal energy, mechanical energy, electrical energy, and chemical energy) using different types of systems (such as phase change materials, batteries, supercapacitors, fuel cells, compressed air, etc.) that are applicable to various types of applications (such as heat and power generation, electrical/hybrid transportation, etc.). Topics of interest in this Special Issue include, but are not limited to, the following: - Novel energy storage materials and topologies; - Applications in electrical/hybrid-driven systems and electrical/hybrid vehicles; - Next-generation energy storage devices, systems, or techniques; - Large-scale energy storage system modeling, simulation, and optimization (including testing and modelling ageing processes); - Advanced control systems for energy storage - Business model for the application and deployment of energy storage; - Lifecycle analysis, safety, and reliability evaluation of energy storage systems.

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Deadline for manuscript submissions

closed (10 July 2024)

Energies

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Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/170643

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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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