Special Issue

Broad-Spectrum Functional Nanomaterials for Energy Conversion and Storage

Message from the Guest Editors

Energy conversion and storage materials lie at the heart of a sustainable, decarbonized future, enabling the transition from fossil fuels to renewable energy and dramatically reducing greenhouse gas emissions. This Special Issue welcomes innovative studies on the design, synthesis, and engineering of advanced materials, ranging from catalysts for fuel cells that transform chemical energy into clean electricity to novel electrode and electrolyte systems for solid-state, lithium-ion, and emerging sodium-ion batteries. We particularly encourage research that addresses resource scarcity and cost challenges by exploring alternative chemistries, scalable nanomaterials, and tailored architectures to boost efficiency, durability, and practical implementation.

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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