Special Issue

Organic-Based Materials for Advanced Energy Storage Systems

Message from the Guest Editors

The growing demand for sustainable and high-performance energy storage systems is driving a shift toward organic-based materials due to their structural tunability, abundance, environmental friendliness, and compatibility with green manufacturing approaches. These materials hold great promise for enabling next-generation electrochemical energy storage technologies. This Special Issue on “Organic-Based Materials for Advanced Energy Storage Systems” aims to provide recent advances in the design, synthesis, characterization, and application of organic-based materials for energy storage systems. Detailed Topics: Aqueous and non-aqueous organic redox flow batteries Organic-based batteries and supercapacitors Carbon-based electrodes for supercapacitors and batteries Material and electrochemical characterization of organic materials Flexible and stretchable organic batteries Organic redox molecules for sustainable energy storage systems Polymer-based redox-active materials and conductive polymers Molecular engineering of redox molecules for redox flow batteries Organic-inorganic composite materials for advanced energy storage devices

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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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