Special Issue

Advanced Energy Storage and Conversion Technologies

Message from the Guest Editors

Advanced energy storage and conversion technologies have been extremely crucial in the fast-expanding market of portable electronic devices, electric vehicles, and renewable energy. The performance of these devices heavily relies on the properties of applied materials. Exploring new materials that are low-cost, environmentally friendly, high-efficiency, and lightweight is essential to advance such technologies. In addition, enhanced safety and system management of these technologies are eqaully essential. This Special Issue invites all forms of contributions (communications, full papers, perspectives, and comments) in the energy storage and conversion field. Lithium-ion and beyond Li-ion battery technologies (e.g., sodium/magnesium/zinc/aluminium batteries, metal air, redox flow batteries, supercapacitors) are all of interest. Topics can range from high-performance materials discovery, new characterization methods, fabrication process innovations, new device designs, safety, recycling, interfacial challenges, to reaction kinetics and mechanisms. Both fundamental and applied research via experimental or computational methods is welcome.

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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.

Editor-in-Chief

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