Special Issue

Approaches for Energy Storage, Sensing and Electrocatalysis

Message from the Guest Editor

This Special Issue cover recent advances in renewable energy conversion and storage, sensing, and electrocatalyst technologies. We therefore invite papers on scientific advances, new findings, case studies, reviews, as well as analyses and numerical simulation that highlight the development of novel nanomaterials for energy storage and conversion devices including, but not limited to: - Advanced rechargeable batteries and beyond Lithium-ion batteries: metal–ion, metal-air, and redox flow batteries; - Supercapacitors and hybrid capacitors and supercapatteries; - Electrocatalysis, oxygen reduction reaction, oxygen evolution reaction, hydrogen evolution reaction; - Energy conversion devices: fuel cells, water electrolyzer, microbial fuel cells; - Chemical energy storage: hydrogen generation and storage and CO2 reduction; - Green energy: renewable energy, efficient energy, methods for efficiency measurements, improvement and optimization; - Thermoelectric and thermo-electrochemical cells; - Piezoelectric and self-charging/discharging devices.

Guest Editor

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closed (20 September 2022)

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About the Journal

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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