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Advances in Materials for Electrochemical Energy Applications

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Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editor

Sustainable and environmentally friendly energy storage and conversion technologies are essential to satisfy the dramatically increasing global energy demand and to reduce the dependence on non-renewable fossil fuels. The development of novel materials plays a key role in improving the properties and performance of devices in a wide range of electrochemical energy applications.

The aim of this Special Issue is to present the recent advances in materials used in all electrochemical forms of sustainable energy harvesting, conversion, storage and utilization, including but not limited to:

- Batteries;
- Supercapacitors;
- Flow batteries;
- Fuel cells;
- Electrocatalysis and electrocatalysts for energy conversion and storage;
- Photocatalysis and photocatalysts for water splitting;
- Hydrogen production and storage;
- Thermochemical, piezoelectric and thermoelectric materials and devices;
- Flexible, self-powered and integrated energy devices/systems.



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It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications and reviews are all welcome.

Special Issue



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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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