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Nanomaterials for Energy Storage: Latest Advances and Prospects

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Deadline for manuscript submissions:

closed (20 March 2023)

Message from the Guest Editors

Dear colleagues,

This Special Issue will highlight the execution of nanostructured materials for energy storage in the field of engineering, medicine, nanotechnology, physics and chemistry. The aim of this Special Issue is to explore the scientific, technical and engineering challenges we face in the transition from nonrenewable energy sources to renewable energy sources.

Subtopics:

- Preparation and characterization of nanostructured materials:
- Synthesis, characterization, and applications of porous materials such as CNTs, MOFs, COFs and zeolites;
- Nanomaterials for lithium-ion batteries;
- Photovoltaic conversion of the solar energy to clean renewable energy;
- Energy storage devices such as Li-ion Batteries and capacitors;
- Hydrogen and fuel cells;
- Energy storage in nanostructured materials;
- Nanoporous materials for energy conversion;
- Hydrogen storage in nanostructured carbons;
- Energy storage in Metal doped carbon nanotubes and metal organic frameworks.



Specialsue







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Message from the Editor-in-Chief

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