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Global warming and environmental pollution caused by nonrenewable fossil fuel combustion have become two of the major challenges to our modern society. To address such challenging issues, increasing research efforts have been conducted to develop advanced nanotechnology and novel nanomaterials for renewable energy conversion and storage. In addition, the need for cost-effective, more sustainable, and efficient energy conversion and storage devices grows increasingly urgent as the demands for high-quality energy requirements. Because of the extremely small dimensions and size effects at nanoscale, nanomaterials in particular offer unique properties or combinations of properties as electrodes and electrolytes in a range of energy devices. Understanding the material compositions, structures, and surface morphologies as well as physicochemical properties of nanomaterials will help us to design and fabricate high-performance nanostructures for use in renewable energy conversion and storage.

In this special issue, we cordially invite researchers globally to contribute original research papers and review articles in the development of advanced nanostructured materials and nanotechnology for renewable energy conversion and storage.

Potential topics include, but are not limited to:

- ▶ Recent development in nanomaterials and nanotechnology for energy conversion and storage
- ▶ Synthesis and characterization of advanced nanomaterials and nanostructures
- ▶ High-performance supercapacitors, solar cells, rechargeable batteries, and fuel cells
- ▶ Theoretical understanding of renewable energy conversion and storage process

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