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Synthesis and Application of Nanostructured Materials for Energy-Related Fields

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Message from the Guest Editors

Dear Colleagues,

To promote the commercialization process of the alternative energies, this Research Topic aims to collect papers focusing on clean energy storage and conversion devices, and provide researchers with an in-depth understanding of the recent difficulties and progress in the production, storage and application of clean energy.

The goal of this Research Topic is to seek advanced materials including carbon, metallic oxide, metallic sulfide and their composites that can be used as electrodes for supercapacitors and lithium-ion batteries, as well as catalysts for hydrogen generation and storage. This collection would be a comprehensive discussion of the existing problems for clean energy storage and conversion materials.

Areas of interest for this Research Topic include, but are not limited to, the following:

- Carbon materials including graphene, nanotubes, biomass-derived carbon and other carbons.
- Metallic oxide materials and their composites.
- Metallic sulfide materials and their composites.

See more information at <https://mdpi.com/si/144886>. We look forward to receiving your contributions.



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Guest Editors

Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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