Special Issue

Advances in the Study of Nanomaterials for Energy Storage

Message from the Guest Editor

With society's rapid development, various non-renewable energy resources have been continuously exploited. Fossil fuel combustion has led to serious environmental problems and exacerbated energy shortage issues, the key to which is research on renewable, sustainable clean energy and stable energy supplies. This Special Issue presents research mainly focusing on the development of energy storage materials from the following perspectives.

- Phase change energy storage materials: These materials have special properties, allowing them to absorb or release a large amount of latent heat during the phase change process.
- High-entropy alloys and their derivatives: Unstable energy supplies will inevitably hinder the practical application of electrochemical energy storage materials.
- Wood-based energy storage materials: The development of green and sustainable energy conversion and storage technologies has become an inevitable trend in social development.

Guest Editor

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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.

Editor-in-Chief

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