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## Nanomaterial for Energy Conversion and Storage

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Nanomaterials hold the key to fundamental advances in energy conversion and storage, both of which are vital in order to meet the challenge of global warming and the finite nature of fossil fuels. Nanomaterials offer unique properties or combinations of properties as electrodes and electrolytes in a range of energy conversion and storage devices. One of the key challenges facing the widespread use and commercialization of promising energy conversion and storage devices is the high cost of the electrode and electrolyte materials and inefficiencies in their assembly and utilization.

This Special Issue of *Nanomaterials* will attempt to cover the most recent advances in energy conversion and storage devices based on nanomaterials, not only their preparation and characterization but also reports of their physical/chemical properties to be applied in devices.

Prof. Jung Tae Park  
*Guest Editor*



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# Special Issue



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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.

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