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Nanocomposite Design for Energy-Related Applications

Guest Editors:

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Deadline for manuscript submissions:
closed (30 May 2023)

Message from the Guest Editors

Research on composite nanomaterials has recently provided opportunities in a broad spectrum of novel energy-related applications; this includes energy harvesting, conversion, and storage. We invite authors to contribute comprehensive reviews and original research articles covering the most recent progress and new developments in designing advanced nanocomposites for energy-related applications. The format of welcomed articles includes full papers, communications, perspective views, and reviews. We believe this research topic will bring a broad impact and is of interest to a broad spectrum of readers in chemistry, materials, nanoscience, and energy science and technologies.

The areas to be covered in this Special Issue may include, but are not limited to:

- Prediction and simulation of the properties of novel nanocomposite systems
- Structural and compositional design of nanocomposites and new synthetic methods
- Advanced characterization of nanocomposites
- Fundamental understanding of the synergy of nanocomposites
- Performance optimization of nanocomposites for energy-related applications

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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.

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