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Advanced Functional Nanomaterials for Efficient Energy Conversion and Storage

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Message from the Guest Editor

Dear Colleagues,

With the surge of energy demands, it is of great importance to explore renewable energy and develop novel energy storage devices. Particularly, advanced materials play a very crucial role on the performance/development of energy conversion and storage devices. More theoretical and experimental research is required to understand their energy storage/catalytic mechanisms and improve their performance.

This Special Issue aims to establish a platform for chemists, material scientists, and physicists around the world to present their latest advances and perspectives in the developments of nanostructured materials for efficient energy conversion and storage devices. Detailed topics included please see our Special Issue webpage.

Prof. Dr. Jiabiao Lian

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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