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State-of-the-Art Nanomaterials for Energy Storage/Conversion and Catalysis in Korea

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue will cover a wide range of nanomaterials related to energy storage/conversion and catalysis currently studied in Korea. Research topics include but are not limited to the following:

- Design and synthesis of nanomaterials for batteries, supercapacitors, fuel cells, solar cells, catalysts, and sensors
- Structure, morphology, performance, and synthesis and reaction mechanisms of nanomaterials
- Applications in energy storage, energy conversion, energy production, synthesis of chemicals, treatment of environmental waste materials, detecting toxic or hazardous materials, and etc.

All research in the above categories is suitable for submission if the major elements of research have been carried out in Korea or by Korean researchers. Any international collaborative research with Korean researchers is also welcome.

This Special Issue introduces the state-of-art research on the topic “Nanomaterials for Energy Storage/Conversion and Catalysis in Korea” with the hope to promote collaboration between Korean and international researchers for the betterment of the world.

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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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