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Fabrication of Heterostructure Nanomaterials for Catalysis

Guest Editor:

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Deadline for manuscript submissions:
closed (10 February 2022)

Message from the Guest Editor

Heterostructure nanomaterials have been explored as potential catalysts in many heterogeneous catalysis applications, such as photo/electrochemical water splitting, carbon dioxide conversion, pollutant remediation, hydrodesulfurization of petroleum, organic molecule transformations, etc. Herein, we invite authors to contribute original research articles or comprehensive review articles covering the most recent progress and new developments in the synthesis and utilization of heterostructure nanomaterials for highly efficient and novel processes associated with catalytic applications in energy, the environment, and sustainability. This Special Issue aims to cover a broad range of subjects from heterostructure nanomaterials synthesis to the design and technologies with nanomaterial integration.

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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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