



Functional Nanocatalysts for Energy Conversion and Environmental Applications

Guest Editor:

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Message from the Guest Editor

The urgent need for sustainable energy solutions and environmental remediation has driven the exploration of innovative technologies, among which functional nanocatalysts stand out for their pivotal role in energy conversion and environmental applications due to their unique properties, such as high surface area, tunable pore sizes, and the ability to facilitate various reactions at the nanoscale.

This Special Issue aims to spotlight the latest advancements in nanocatalyst research, focusing on their application in crucial reactions and processes that address current energy-related and environmental challenges. We invite contributions that explore the synthesis, characterization, and application of nanocatalysts in a range of important reactions and processes

With this Special Issue, we seek to provide a comprehensive platform for researchers to share their findings on the development and application of functional nanocatalysts, fostering a multidisciplinary dialogue and inspiring further advancements and applications that contribute to a sustainable future.





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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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