



Nanostructured Porous Materials: Synthesis, Characterization and Catalytic Applications

Guest Editor:

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Message from the Guest Editor

Porous materials have particular advantages in fabricating highly active catalysts in various catalysis research fields due to their large specific surface area, chemical mutability, and exceptional and unique structural features. In recent years, rapid progress has been made by researchers in the design, synthesis, characterization, and functionalization of nanostructured porous materials. Various nanostructured porous materials have been prepared and used as catalysts. Examples of porous materials include, but are not limited to, metal–organic frameworks, covalent organic frameworks, porous organic polymers, and inorganic porous materials. Porous materials have been applied in a variety of catalytic reactions, especially heterogeneous catalysis, photocatalysis, and electrocatalysis.

This Special Issue aims to collect papers focused on recent advances in the design, synthesis, and functionalization of porous materials for various catalytic applications. Original research articles and reviews are welcome.





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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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