Special Issue

Preparation and Catalytic Properties of Porous Carbon Nanomaterials

Message from the Guest Editor

Porous carbon nanomaterials are commonly used as catalysts. Compared with traditional catalyst carriers, the pore structure is regular and controllable, and the connecting holes between the pores are small. A catalyst is restricted in pores after loading, and it is not easy to agglomerate, which significantly improves the catalyst's life. The required pore structure can also be accurately designed according to the size of the reactants and products to facilitate the entry and exit of reactants and products, which can significantly improve catalytic efficiency. In addition, porous carbon can also be used as a nonmetallic catalyst, such as nitrogen-doped porous carbon materials, which have catalytic activity in many reactions, and its application in oxidation, electrocatalysis, and acetylene hydrochlorination has been widely examined. This Special Issue aims to collect the most recent progress and new developments in the design, synthesis, and characterization of porous carbon nanomaterials, as well as their catalytic applications. We look forward to receiving your contributions.

Guest Editor

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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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