Special Issue

Functionalization Chemistry in Porous Nanomaterials

Message from the Guest Editor

Porous nanomaterials, an important family of functional materials, have attractive properties concerning advanced energy storage and conversion technologies. Porous materials have extensive applications, the intrinsic nature of porous materials offers advantages. The hollow structure offers additional advantages. Thus, the large specific surface area of structures has been promising to improve the power/energy density of active materials. The structural properties of nanomaterials are mainly determined by synthetic methods and experimental conditions. In this sense, the synthesis of porous and hollow nanomaterials has been explored over several synthetic routes. Despite this progress, there is a need to develop high-efficiency, low-cost, and environmentally friendly porous nanomaterials for conversion technologies. The goal of this Special Issue is to discuss the functionalization chemistry of important porous nanomaterials in order to give a new perspective of the applications of these materials in the frontiers of knowledge. For more detailed information please see the webpage of the Special Issue.

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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