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Porous Metal-Organic Framework Nanoparticles

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Message from the Guest Editors

Metal-organic frameworks (MOFs) have attracted a significant amount of interest from researchers in a broad range of scientific disciplines. Their compositional and structural diversity and porous character, with a large surface area to mass ratio and volume, enable them to be used in many applications, including gas storage, catalysis, biomedical, sensing, and energy-related applications. MOF-derived structures at the nanometre scale (NMOFs) can be synthesized by choosing appropriate organic ligands and metal ions and have been shown to enhance the performance of drug nanocarriers and provide gas sensors with high sensitivity.

This Special Issue aims to present an overview of new advances in the preparation and surface engineering of size-controlled nanoscale MOFs. In addition to synthetic aspects, the scope of this Special Issue covers a broad range of applications, including nanomedicine, catalysis, gas storage, and sensors.

For further reading, please follow the link to the Special Issue Website at: <http://www.mdpi.com/si/297701>

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Special Issue



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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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