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Metal Organic Framework (MOF)-Based Micro/Nanoscale Materials

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closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

Metal–organic frameworks (MOFs , also known as porous coordination polymers or PCPs) are formed through the assembly of metal ions or clusters and organic linkers, giving rise to crystalline structures with an open framework and significant porous texture development. The frameworks have excellent designability, regulatability, and modifiability in terms of their composition, topology, pore size, and surface chemistry, thus making them suitable candidates for various applications.

This Special Issue of *Nanomaterials* focuses on the field of synthesis and the characterization of MOFs and MOF-based micro/nanoscale materials for advanced applications, including, but not limited to, gas storage/capture, chemical sensing, photoelectrocatalysis, pollutant adsorption and degradation, organic transformation, drug delivery, and so on.

I hope that this Special Issue will uncover deep insights into MOF micro/nanoscale materials and enhance communication among scientists around the world. Original research articles, communications, and reviews are all welcome.

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Editor-in-Chief

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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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