Special Issue

Synthesis and Applications of Metal-Organic Framework Based Materials and Related Porous Materials (2nd Edition)

Message from the Guest Editor

Metal–organic frameworks (MOFs) are emerging as excellent and promising heterogeneous catalysts due to their high surface areas, tunable pore sizes, diverse organic–inorganic ingredients, and dispersed active centers. In addition, MOFs can act as versatile precursors or sacrificial templates for preparing various functional materials with unique structures (e.g., porous structure) to achieve highly efficient catalysis. This Special Issue of *Nanomaterials* titled “Synthesis and Applications of Metal-Organic Framework Based Materials and Related Porous Materials (2nd Edition)” welcomes authors to share their current research in the design, characterization, and application of novel MOF-based materials and related porous materials, including but not limited to thermal catalysis and photo-, electro-, and photo-electrocatalysis, which are mainly focused on the production of renewable energy and valuable chemicals.

Guest Editor

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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.

Editor-in-Chief

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