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Catalysis by Metal-Organic Frameworks

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Numerous functional metal-organic frameworks (MOFs) are being assembled from various metal ions and polytopic bridging ligands. These crystalline MOFs tend to form unique topologically interesting networks. Additionally, MOFs often exhibit robust frameworks with high surfaces and large pore volumes. The confined spaces of MOFs are ideal platforms for a range of new heterogeneous catalytic systems with high selectivity and recyclability. The incorporation of catalytically-active functional moieties into the bridging ligands or generation of open-metal sites are good methods for the preparation of novel catalysts. A simple encapsulation of catalytically-active nanoparticles inside MOF channels is also promising strategy to prepare active catalysts. The scope of this special issue covers all areas of MOF-based catalytic systems.

Prof. Dr. Seong Huh
Guest Editor

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Special Issue