Special Issue

Functional Metal-Organic Frameworks

Message from the Guest Editor

As a new class of crystalline porous materials constructed using organic linkers and metal nodes, metal–organic frameworks (MOFs) display the features of extremely high surface area, large porosity, tunable pore size, and flexible functionality. Their applications have been found in gas storage and separation, heterogeneous catalysis, chemical sensors, proton conductivity, biomedicine, and others. Currently, researchers are keen to design functional MOFs with special functions. This Special Issue focuses on the functional MOFs and their interesting applications. This Special Issue aims to report functional MOFs for multiple applications, provide insights into structure–property relationships, and enhance communication among scientists around the world. We invite the submission of original research articles, communications, and reviews covering one or several of the topics included in (or related to) the keywords below.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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