Special Issue

Metal Organic Frameworks and Applications in Catalysis

Message from the Guest Editors

The fields of metal–organic frameworks (MOFs) and catalysis have been extensively combined during the last years due to the characteristics of MOFs being well suited for catalytic applications, for example, their high porosity, chemical versatility, and possibility for tailoring the design of catalytic active sites. The catalytic applications of MOFs and MOF-derived materials are increasing exponentially along with the number of publications related to new and improved performance of MOF materials in chemical reactions leading to industrially relevant compounds. Therefore, a compilation of the latest advances in these fields (MOFs + catalysis) would be useful to connect interested authors and readers. This Special Issue aims to cover recent and emerging strategies for the synthesis and catalytic applications of MOF-type materials, focusing on the aspects that drive present and future research, from the study of the material structure to applications in chemical reactions of organic and inorganic substrates. This will have an impact on the sustainable synthesis of chemicals, fuels, and environmental remediation strategies.

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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