Special Issue

Functional Metal-Organic Framework Based Materials

Message from the Guest Editors

In the last two decades, research in metal-organic frameworks (MOFs) and porous coordination polymers (PCPs) changed the way chemists looked into traditional coordination chemistry. The enormous potential in distinct scientific areas arises from mostly from their unique structural features, particularly well-defined crystalline structures, adjustable pore topology, ultra-high surface areas, and excellent tailorability. Thus, the initial scientific drive for unique and exotic crystal structures remains intrinsically connected to this research field. More recently, the functionality and potential applicability of MOFs and PCPs have been directed towards the preparation of MOF-based compounds and materials: post-synthetic modified MOFs, guests@MOFs, MOFs/substrates, and pyrolytic MOFs. The present Special Issue aims to assemble the recent relevant scientific achievements in the field of functional pristine MOFs and MOF-derived materials. The Special Issue will significantly benefit from the simultaneous contribution of original research articles as well of pertinent and critical review articles in this scientific field.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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