Special Issue

MOFs and MCOFs: Design, Synthesis and Application

Message from the Guest Editor

We are delighted to announce and invite you to contribute to this Special Issue of Inorganics, titled "MOFs and MCOFs: Design, Synthesis and Application". Metal–Organic Frameworks (MOFs) and Metal–Covalent Organic Frameworks (MCOFs), represent two of the most exciting classes of porous crystalline materials developed in recent years. Their exceptional characteristics—including ultrahigh surface areas, structural and functional tunability, and well-defined porosity—have positioned them as prime candidates for a myriad of advanced applications. The ability to precisely engineer their building blocks at the molecular level allows the tailoring of their properties to meet specific functional demands, pushing the boundaries of materials science and technology. We welcome contributions that span the entire spectrum of MOF and MCOF research, with a focus on their design, synthesis, and functional applications. Potential topics include, but are not limited to the following: Design and Synthesis
Biological Applications
Sensing
Gas Adsorption and Separation
Catalysis

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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