Special Issue

Metal Organic Frameworks: Synthesis and Application, 3rd Edition

Message from the Guest Editors

Metal–organic frameworks (MOFs) are among the most promising novel materials. They belong to a new class of crystalline materials that consist of a coordination bond between metal clusters (e.g., metal–carboxylate clusters and metal–azolate clusters), metal atoms, or rod-shaped clusters and multidentate organic linkers that contain oxygen or nitrogen donors (carboxylates, azoles, nitriles, etc.), thus forming a three-dimensional structure. Their exceptional properties have attracted the interest of analytical chemists who have taken advantage of their unique structures and properties and have already introduced them in several sample pretreatment techniques, such as solid phase extraction, dispersive SPE, magnetic solid phase extraction, solid phase microextraction, stir bar sorptive extraction, etc. This Special Issue aims to present recent developmentts in the synthesis and applications of MOFs.

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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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