Special Issue

Functional Porous Frameworks: Synthesis, Properties, and Applications

Message from the Guest Editor

Functional porous materials, including mesoporous silica, zeolites, periodic mesoporous organosilicas (PMOs), metal–organic frameworks (MOFs), covalent organic frameworks (COFs), hydrogen-bonded organic frameworks (HOFs), and porous organic polymers (POPs), have garnered significant interest over the past two decades owing to their distinctive properties and versatile applications. A plethora of synthetic strategies has been developed for the purpose of tailoring the pore sizes, structures, shapes, and functionalities of these materials. With their well-defined structures and high surface areas, these materials have been extensively explored for applications such as gas storage, catalysis, drug delivery, separations, environmental remediation, sensor technology, and beyond. This Special Issue aims to highlight the latest advancements in the synthesis, characterization, properties, and applications of functional porous frameworks.

Guest Editor

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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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