Special Issue

Multifunctional Crystalline Porous Materials: Design, Synthesis and Applications

Message from the Guest Editor

The past two decades have witnessed the explosive growth of crystalline porous materials, including metal–organic frameworks (MOFs) and covalent organic frameworks (COFs) with typically extended networks, or metal–organic cages (MOCs) and porous organic cages (POCs) with discrete structures. Crystalline porous materials, constructed by coordination and covalent bonds, have exhibited various applications because of their structural tunability and modular nature. Significant efforts have recently been made to exploit crystalline porous materials with exceptional properties, and further improvements and investigations are highly required for the development of this field. We will launch a Special Issue "Multifunctional Crystalline Porous Materials: Design, Synthesis and Applications" that comprises a collection of original research and review articles on the synthesis, structure and applications of these materials, including recent developments on MOFs, COFs, and MOCs. In summary, this Special Issue will provide a comprehensive overview of recent advancements in the field of crystalline porous materials.

Guest Editor

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Deadline for manuscript submissions

31 January 2026

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/215013

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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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