

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

Prof. Dr. Raed Abu-Reziq

Institute of Chemistry, Casali Center of Applied Chemistry, The Hebrew University of Jerusalem, Edmond J. Safra Campus, Givat Ram, Jerusalem 91904, Israel

Deadline for manuscript submissions

31 July 2025



Molecules

an Open Access Journal
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Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/203643

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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