Special Issue

Preparation and Application of MOF Materials

Message from the Guest Editor

A proton conductor is a unique type of electrolyte that allows protons to pass through quickly and can effectively block electron transport. They have been widely used in solid-state electrochromic displays, hydrogen sensors, fuel cells, catalytic synthesis, biological probes, humidity sensors and other fields. For decades, the synthesis of excellent proton conductors has been of interest to scholars. Metal–organic frameworks (MOFs) are a type of crystalline porous material. Their channels are convenient for proton transport, and the structures are designable and controllable, which opens up new possibilities for researchers to explore the synthesis of new proton conductors. Furthermore, the microstructure of MOFs is clear, indicating that they can provide a favorable platform for the study of the proton conduction mechanism.

Guest Editor

Dr. Gen Zhang
School of Chemical Engineering, Nanjing University of Science and Technology, Nanjing, China

Deadline for manuscript submissions

closed (30 April 2022)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/86293

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

mdpi.com/journal/molecules

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

MDPI

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of 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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).