

Special Issue

Porous Organic Polymers for Adsorption, Storage, Separation and Catalysis

Message from the Guest Editor

Porous organic polymers (POPs) have recently emerged as smart materials for carbon capture, storage, separation, and catalysis. These materials have gained significant interest in the scientific communities because of their low density, high stability, large surface area, and the possibility to customize their pore volume, size, and modifications. POPs have also gained significant attention in catalysis. Using POPs, three different sorts of catalysis can be achieved: organocatalysis, homogenous metal complex-based catalysis, and nanoparticle-based catalysis. The aim of this Special Issue is to collect articles describing POPs synthesis and applications in carbon capture, storage, separation, and catalysis. From a materials' perspective, amorphous as well as crystalline porous materials are of interest. Regarding applications, the scope of the POPs will be extended to dye adsorption, separation of organic pollutants, and chiral separation, in addition to carbon capture, storage, and separation. Organic transformation and the catalytic reactivity of POPs in flow synthesis photocatalysis and electrocatalysis will also be covered in this Special Issue.

Guest Editor

Dr. Himanshu Jena

Department of Chemistry, Ghent University, 9000 Ghent, Belgium

Deadline for manuscript submissions

closed (31 May 2020)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/28132

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

[mdpi.com/journal/
molecules](https://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](https://mdpi.com/journal/molecules)



About the Journal

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

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).