

Special Issue

Advanced Materials for Efficient Adsorption and Separation

Message from the Guest Editor

This Special Issue of *Molecules* is devoted to the latest advances in the design and application of multidimensional, hierarchical, and multifunctional materials for adsorption and separation applications. Adsorption or separation processes are key elements of virtually every technological application; therefore, these materials include high-performance adsorbents, filtration-assisted matrices, separation-assisted carriers, and multifunctional separation structures. Modern materials are complex three-dimensional structures, including three-dimensional carbon- and silica-based materials, metal-organic frameworks, metal-oxide-based materials, and bio- and synthetic polymeric materials or hybrid systems. This Special Issue will, therefore, be a compendium of the latest knowledge in the design and applications of the latest generation of adsorption and separation materials.

Guest Editor

Dr. Karolina Wieszczycka

Institute of Chemical Technology and Engineering, Faculty of Chemical Technology, Poznan University of Technology, Berdychowo 4, 60-965 Poznan, Poland

Deadline for manuscript submissions

30 September 2026



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 10.3
Indexed in PubMed



mdpi.com/si/264137

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 10.3
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 molecular chemistry, now in its 30th 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 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).