

Special Issue

New Insights into the Preparation and Separation of Enantiomers

Message from the Guest Editor

Chirality plays a major role in living processes, underlying the importance of optically active molecules, whose preparation still represents a challenge. Consequently, many aspects of chiral chemistry attract considerable interest among industrial and academic research groups and chemists. Isolation and chemical transformation from natural products, enantioselective syntheses involving efficient (bio)catalysts, and separation racemates are the main methods for preparation of the corresponding enantiomerically pure compounds. The number and variety of these preparative methods are constantly increasing, and they are in the focus of many researchers. Stereogenic element(s) may include central chirality on either a carbon atom or heteroatom. Moreover, axial or planar chirality is becoming more and more common. Crystallographic, spectroscopic, and theoretical studies are also of particular importance for the determination of the structure and for absolute configuration. Finding a connection between the chiral structure of a molecule and its biological activity, self-disproportion of enantiomers, and the appearance of homochirality on Earth can also be considered to be hot topics.

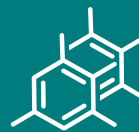
Guest Editor

Dr. Peter Bagi

Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, Budapest, Hungary

Deadline for manuscript submissions

closed (31 December 2021)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/72614

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 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).