Special Issue

Supramolecular Host/Guest Compounds and Their Prospects for Multifunctional Materials

Message from the Guest Editors

The selective behaviour of synthetic (crown ethers and cryptands) and natural macrocycles for alkali-metal cations marked the beginning of Supramolecular Chemistry in the late sixties and early seventies. These discoveries provoked a remarkable expansion in this area of research leading to a huge number of papers, reviews, books and the Nobel Prize Award in 1987 to Pedersen (crown ethers), Lehn (cryptands) and Cram (spherands). Since then, Supramolecular Chemistry has captivated the interest of the scientific community to the extent that the initial and continuous interest in host—guest chemistry has extended to the formation of supramolecular assemblies resulting from non-covalent interactions between host and host–guest complex units containing auxiliary functional groups.

Guest Editors

Prof. Dr. Angela Danil De Namor

Laboratory of Thermochemistry, School of Chemistry and Chemical Engineering, University of Surrey, Guildford GU2 7XH, UK

Dr. Nawal Al Hakawati

Department of Biological Sciences, Faculty of Science, Beirut Arab University, Beirut, Lebanon

Deadline for manuscript submissions

30 April 2026



Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/205481

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



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).

