

## Special Issue

# Chemical Bond and Intermolecular Interactions, 2nd Edition

### Message from the Guest Editors

This Special Issue focuses on the geometrical and spectroscopic features of noncovalent interactions including hydrogen, halogen, chalcogen, pnictogen, tetrel, triel, beryllium, and regium bonds, as well as their potential applications in chemical reactions, crystal engineering, molecular recognition, and biological systems. We aim to publish studies concerning the bonds formed between some novel important electron donors and acceptors, similarities and differences between these bonds, structures of the complexes composed of these bonds in solution and gas phases, spectroscopic methods for measuring these bonds in solution and gas phases, and applications of these bonds in chemical reactions, crystal engineering, molecular recognition, and biological systems.

### Guest Editors

Prof. Dr. Qingzhong Li

School of Chemistry and Chemical Engineering, Yantai University, Yantai, China

Prof. Dr. Steve Scheiner

Department of Chemistry and Biochemistry, Utah State University, Logan, UT, USA

Prof. Dr. Zhiwu Yu

Department of Chemistry, Tsinghua University, Beijing, China

### Deadline for manuscript submissions

closed (30 November 2024)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/184091](https://mdpi.com/si/184091)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto: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).