

## Special Issue

# Recent Advances in Perovskite Based Materials

### Message from the Guest Editors

This Special Issue, titled “Recent Advances in Perovskite-Based Materials”, aims to assemble high-quality original research, reviews, and perspectives focused on the advances in perovskite-based materials. The scope of this Special Issue includes, but is not limited to, the following:

- Novel material synthesis and innovative preparation methods;
- Structure and property characterization;
- Device applications;
- Theoretical studies, such as material prediction and design (machine learning, high-throughput screening, etc.) and property mechanism explanations.

We encourage submissions that cover various aspects of perovskite-based materials, from the synthesis of new materials and the development of advanced preparation methods to the characterization of their structures and properties, as well as their applications in devices. Furthermore, we welcome theoretical studies that focus on material prediction and design, utilizing techniques such as machine learning and high-throughput screening, as well as investigations into the underlying mechanisms governing the property of perovskite-based materials.

---

### Guest Editors

Dr. Gang Tang  
Dr. Hongxia Zhong  
Dr. Peng Lv

---

### 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/199808](https://mdpi.com/si/199808)

*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 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).