

Special Issue

Recent Developments in Perovskite-Based Functional Materials

Message from the Guest Editors

Over the past few years, the breakthroughs achieved by metal halide perovskites in the photovoltaic field have been regarded as the renaissance of perovskite-based materials. Inspired by the great success in solar cells, various applications have been extensively investigated on perovskite-based functional materials, such as light-emitting diodes, photodetectors, photocatalysis, and electrocatalysis. While the advances in currently emerging functional materials and applications related to perovskite have reached an exciting stage, understanding the structure-properties-applications interplay of perovskite-based hybrids is crucial to moving forward to the next stage. This Special Issue will assemble high-quality original research, reviews, and perspectives focused on the advances of perovskite-based materials, including, but not limited to, novel preparation methods, the unique working mechanisms and applications, and the new technology and characterization tools.

Guest Editors

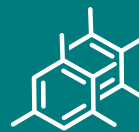
Dr. Chuang Han

Dr. Lan Yuan

Dr. Bidyut Kundu

Deadline for manuscript submissions

closed (30 September 2023)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

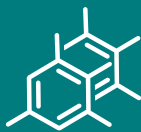


mdpi.com/si/120161

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).