

Special Issue

New Metal Catalysts for Sustainable Chemistry

Message from the Guest Editor

Developing new metal catalysts for efficiently converting natural resources into valuable products is necessary to meet the high energy demand of human beings. This Special Issue aims to gather global experts to develop highly versatile, robust, and sustainable catalysts that could utilize earth-abundant small molecules more efficiently. The catalytic reactions include but are not limited to ammonia oxidation; carbon dioxide reduction; hydrocarbon functionalization; and splitting of dinitrogen, dioxygen, and water. We highly welcome original research articles, communications, and reviews covering the design of new metal catalysts, mechanistic study, and catalytic application for the above reactions. These results should provide valuable insights and contribute to the development of sustainable catalysts.

Guest Editor

Dr. Wai Lun Man

Department of Chemistry, Hong Kong Baptist University, Hong Kong, China

Deadline for manuscript submissions

closed (31 January 2025)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6

CiteScore 8.6

Indexed in PubMed



[mdpi.com/journal/molecules](https://www.mdpi.com/journal/molecules)

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

[mdpi.com/journal/
molecules](https://www.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](http://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).

