

Special Issue

Metal Intoxication: General Aspects and Chelating Agents

Message from the Guest Editors

Dear colleagues, This Special issue aims to exploit heavy metal toxicity in humans, the chelation approach for their removal from the body, and to present the reader with the latest progress in the development of chelating strategies to treat chronic and acute metal intoxication. Submissions focusing on all aspects of chelation treatment (alone or in combination), including nutritional interventions, are welcome. Related and similar topics are also encouraged. Potential topics include, but are not limited to, the following:

- Chemical characterization of novel metal chelators for chronic and/or acute specific metal intoxication
- Potential metal chelators in human diseases
- Advances in chelation strategies and chelating agents in medicine
- Exploration of the molecular mechanism of metal toxicity and the mechanisms of action for their removal
- Studies devoted to the design and development of chelating agents' functionalization for sensing or targeting purposes
- Studies on the metal chelators' properties, i.e., absorption, distribution, metabolism, and excretion
- Potential nutritional intervention for metal detoxification.

Guest Editors

Dr. Massimiliano F. Peana

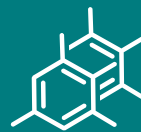
Department of Chemical, Physical, Mathematical and Natural Sciences,
University of Sassari, Via Vienna 2, 07100 Sassari, Italy

Dr. Christos T. Chasapis

1. NMR Center, Instrumental Analysis Laboratory, School of Natural Sciences, University of Patras, Patras, Greece
2. Institute of Chemical Engineering Sciences (ICE-HT), Foundation for Research and Technology, Hellas (FORTH), Patras, Greece

Deadline for manuscript submissions

closed (31 July 2022)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/59832

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).