

Special Issue

The Application of LC-MS in Pharmaceutical Analysis

Message from the Guest Editors

This Special Issue aims to gather and disseminate the latest research, methodologies, and findings related to the application of LC-MS in pharmaceutical analysis. We envision a comprehensive collection of manuscripts that cover a wide range of themes, including (but not limited to) the following:

- Method development and validation using LC-MS for pharmaceutical analysis;
- Chemical characterization and metabolite identification using LC-MS;
- Untargeted and targeted metabolomics studies employing LC-MS;
- Pharmacokinetic analysis using LC-MS techniques;
- High-throughput LC-MS approaches for drug discovery and analysis;
- The analysis and identification of impurities and degradation products using LC-MS.

We believe that this Special Issue will serve as an excellent platform for researchers and practitioners in the field to share their valuable insights, novel methodologies, and significant findings. It will not only contribute to the existing knowledge base but also stimulate further advancements in LC-MS technology and its applications in pharmaceutical analysis.

Guest Editors

Dr. Wing Lam

Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, SHM B254, New Haven, CT 06510, USA

Dr. Wei Cai

Deputy Dean of School of Pharmaceutical Sciences and Director of Pharmaceutical Analysis Teaching and Research Office, Hunan University of Medicine, Huaihua 41800, China

Deadline for manuscript submissions

closed (31 May 2025)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/176021

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 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).