Special Issue

Frontier in Lithium-Ion Battery

Message from the Guest Editor

Until about 25 years ago, the battery market was seen as established, with demand closely related to the sale of either automobiles or various consumer products. Due to the great improvement in portable devices and automotive applications, the development of highperformance lithium ion batteries with high-capacity retention, high coulombic efficiency, high energy density, and low cost is becoming increasingly urgent. A comprehensive understanding of the failure mechanism of materials and developing new materials play a critical role in further improving the electrochemical performance of lithium ion batteries. Therefore, this Special Issue aims to provide a platform for researchers and engineers to present their latest research findings and engineering experiences in developing and applying novel technologies to improve and address current challenges.

Guest Editor

Dr. Haiyong He

Ningbo Institute of Industrial Technology, Chinese Academy of Sciences, Ningbo, China

Deadline for manuscript submissions

closed (28 February 2023)



Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/96857

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

mdpi.com/journal/molecules





Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



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).

