

Special Issue

Recent Advances in Flame Retardant Polymeric Materials, 2nd Edition

Message from the Guest Editor

With the increasing concern of fire hazards and increasingly strict laws and regulations, flame-retardant polymeric materials have seen rapid development in recent decades. Nowadays, aside from some specific, banned halogen-containing flame retardants, researchers generally focus on flame retardants containing phosphorus, nitrogen, silicon, boron, etc. When superior flame retardancy is achieved by polymeric materials, researchers look to improve other properties, such as thermal, mechanical, dielectric, electromagnetic shielding, and electrochemistry attributes, to obtain polymers with good comprehensive performance. This Special Issue is designed to gather scientific papers about recent advances in flame retardant polymeric materials. Contributions are invited on all themes, including but not limited to the synthesis of new flame retardants, polymers with excellent flame retardancy, multifunctional flame-retardant polymers, study of flame-retardant mechanisms, and flame-retardant polymeric nanocomposites. Full papers, short communications, and review articles presenting and discussing the most recent trends in these areas are welcome.

Guest Editor

Dr. Chao Ma

College of Emergency Management, Nanjing Tech University, Nanjing 210009, China

Deadline for manuscript submissions

31 December 2025



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/225567

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 experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all 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).