Special Issue

Natural Polymers for Fire Safety

Message from the Guest Editor

The issue of fire safety is currently attracting extensive attention, especially on the fields of building materials, decoration materials, portable electronics, and electric vehicles. To meet the developing requirement of the market, green, nontoxic, and low-cost flame retardants is widely welcomed and is being investigated on an ongoing basis. Natural polymers, such as cellulose, chitosan, alginate, etc., are widely concerned and employed to be used as flame retardants, nanofillers, coatings, etc., to address the fire safety issues. To date, natural polymers, especially marine-based and plants-based natural polymers, are becoming a hot point that could be used to boost the development of fire resistance technology. This Special Issue aims to provide a high quality platform to display high quality papers on natural polymer materials, anticipating that could inspire readers with innovative thinking and thus promote the development of fire safety science. Research on bio-based materials, including the extraction, synthesis, and modification as well as the evaluation of fire safety and environment impact, are all considered.

Guest Editor

Dr. Wei Wang

School of Mechanical and Manufacturing Engineering, University of New South Wales, Sydney, NSW 2052, Australia

Deadline for manuscript submissions

closed (1 November 2023)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/80525

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

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).

MDPI