

## Special Issue

# Recent Insights into Biopolymer Processing, from Preparation to Fundamental Properties and Industrial Applications

### Message from the Guest Editors

This Special Issue will cover the current state-of-the-art findings in the area of biopolymers (cellulose, chitin, chitosan, starch, lignin, etc.), from fundamental properties of biopolymers and blends to the preparation of materials from them, including composites and nanocomposites. We especially encourage the submission of research works by experts in polymer sciences on the development of new methods and techniques for biopolymers' characterization, processing, and preparation of novel sustainable materials. Invited works include original research articles, reviews and mini-reviews, communications, and editorials

### Guest Editors

Dr. Julia L. Shamshina

1. Fiber and Biopolymer Research Institute, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, USA
2. Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409, USA

Dr. Paula Berton

Chemical and Petroleum Engineering Department, University of Calgary, Calgary, AB T2N 1N4, Canada

### Deadline for manuscript submissions

closed (28 February 2025)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 5.1  
CiteScore 10.3  
Indexed in PubMed



[mdpi.com/si/143438](https://mdpi.com/si/143438)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://mdpi.com/journal/molecules)





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.1  
CiteScore 10.3  
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).