

## Special Issue

# Synthesis and Applications of Natural Polymers and Their Derivatives

### Message from the Guest Editors

Natural polymers have received increasing attention due to their specific advantages, which include the fact that they are obtained from renewable resources, and their biocompatible, biodegradable, generally non-toxic, non-immunogenic, non-carcinogenic, specific physicochemical properties. From biomedical and pharmaceutical applications (antimicrobial, antitumoral, drug delivery, tissue engineering) to food packaging, technique and the protection of the environment, the full commercial potential of these advancements has yet to be realized in everyday life.

This Special Issue aims to publish original research papers and review articles focusing on the synthesis of natural-based polymers, their derivatives (chemically synthesized, composites), different processing techniques and resulted products, potential applications, and new outlooks.

---

### Guest Editors

Dr. Misu Moscovici

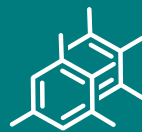
Prof. Dr. Guibin Wang

Prof. Dr. Alejandro Rodríguez Pascual

---

### 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/201435](https://mdpi.com/si/201435)

*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 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).