

## Special Issue

# Chemistry of Lignin-Based Materials

### Message from the Guest Editors

Lignin is the second most important polymer in the lignocellulosic materials, such as biomass. The valorization of biomass under biorefinery concepts, the circular economy and the zero-waste philosophy passes with no doubt thru the valorization of its cell wall constituents, in particular lignin. The use of lignin presents many advantages (it is a natural resource, is biodegradable, has low toxicity for some applications, has high carbon content). Still, it also presents some disadvantages (e.g., recalcitrant polymer and has different types of functional groups). So, lignin valorization and applications represent a challenge to researchers. In this special, we invite our colleagues to present their works related to lignin characterization and valorization, emphasizing lignin applications the so-called lignin-based materials (*e.g.* hydrogels, lignin nanoparticles, adhesives, etc.).

### Guest Editors

Dr. Ana Lourenço

Centro de Estudos Florestais, Instituto Superior de Agronomia,  
Universidade de Lisboa, Lisbon, Portugal

Dr. Jorge Gominho

Centro de Estudos Florestais, Instituto Superior de Agronomia,  
Universidade de Lisboa, Lisbon, Portugal

### Deadline for manuscript submissions

closed (28 February 2025)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/111712](https://mdpi.com/si/111712)

*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).