



*forests*

an Open Access Journal by MDPI



## Wood Chemistry—Advanced Technology and Techniques

Guest Editor:

**Dr. Mohamed Jebrane**

Research Institutes of Sweden  
RISE, Department Sustainable  
materials and Packaging,  
Stockholm, Sweden

Deadline for manuscript  
submissions:

**31 January 2025**

### Message from the Guest Editor

This Special Issue is dedicated to the forefront of research on the chemical aspects of wood and lignocellulosic materials. It aims to gather pioneering studies, reviews, and technical advancements that push the boundaries of how we understand, utilize, and transform wood through chemistry. World seeks sustainable alternatives to fossil-based materials and processes, the role of wood chemistry has never been more pivotal. This Special Issue will serve as a platform for showcasing innovative approaches in the modification, analysis, and application of wood materials, contributing to sustainability, material science, and the bioeconomy.

Potential topics can include, but are not limited to, the following:

- Advanced analytical techniques in wood chemistry: cutting-edge methods for characterizing wood composition, structure, and properties.
- Cellulose and hemicellulose innovations: advances in the processing and application of cellulose and hemicellulose, including nanocellulose and new biomaterials.
- Wood modification techniques: chemical treatments and processes that enhance the durability, resistance, and functionality of wood.



[mdpi.com/si/200810](https://mdpi.com/si/200810)

# Special Issue



# forests



an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Cate Macinnis-Ng**

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

### **Prof. Dr. Giacomo Alessandro Gerosa**

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

## Message from the Editorial Board

*Forests* (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

**Journal Rank:** JCR - Q1 (*Forestry*) / CiteScore - Q1 (*Forestry*)

## Contact Us

---

Forests Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/forests](http://mdpi.com/journal/forests)  
[forests@mdpi.com](mailto:forests@mdpi.com)  
[X@Forests\\_MDPI](https://twitter.com/Forests_MDPI)