

## Special Issue

# Wood Materials: Preservation and Modification

### Message from the Guest Editors

Wood is a construction product characterized by a high strength to weight ratio, low heat conductivity and easy machinability. It also binds carbon and thus contributes to reducing the CO<sub>2</sub> content in the atmosphere.

However, despite its many positive features, wood also has some disadvantages, such as low dimensional stability, low resistance to wood-degrading fungi and flammability. In the past few decades, some studies have aimed to improve wood quality through physical, chemical and biological modifications, among other strategies. However, there are still many problems to be solved. This Special Issue will focus on new techniques and the optimization of processing parameters for wood preservation and modification. Changes in relevant wood properties, including dimensional stability, biological durability, mechanical properties and multi-scale fire retardancy, are of interest. Moreover, submissions detailing advanced characterization techniques that have application potential in the field of wood preservation and modification are also welcome.

---

### Guest Editors

Dr. Xinzhou Wang

College of Materials Science and Engineering, Nanjing Forestry University, Nanjing, China

Dr. Jiangtao Shi

College of Materials Science and Engineering, Nanjing Forestry University, Nanjing 210037, China

---

### Deadline for manuscript submissions

closed (25 April 2024)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/160253](https://mdpi.com/si/160253)

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

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





# Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



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



## About the Journal

### Message from the Editor-in-Chief

*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.

---

### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

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

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).