

Special Issue

Recent Advances in Wood Modification and Wood Functionalization Research

Message from the Guest Editors

This Special Issue aims to present the most recent advances in the field of diverse wood modification technologies and the research results that support them in order to obtain high-performance bio-based materials and composites. In this Special Issue, original research articles and reviews are welcome. Research topics may include (but are not limited to) the following:

- Modification of solid wood;
- Biocomposites and wood-based products;
- Nanomaterials in wood and wood-based materials;
- Chemical modification processes;
- Natural fibers;
- Plasma treatment;
- Fungal mycelium treatment;
- Enzymatic treatment;
- Combined modification processes;
- Functionalization of wood or its surface;
- Weather resistant wood and wood-based materials;
- Dimensionally stable wood and wood-based materials;
- Wood and wood-based materials with improved decay resistance;
- Application of wood and wood-based products;
- Destructive and non-destructive testing of wood;
- Future perspectives for innovative approaches to wood modification;
- Currently unused modification technologies.

Guest Editors

Dr. Mátyás Báder

Dr. Miklós Bak

Prof. Dr. Róbert Németh

Deadline for manuscript submissions

closed (1 August 2025)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/184981

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).