Special Issue

Transforming Wood into Smart Materials: Innovations in Processing and Application

Message from the Guest Editors

We encourage the submission of original research articles and review papers on a variety of topics, including, but not limited to, the following:

- **Processing and modification techniques:** Novel methods for wood treatment, modification, and functionalization to enhance properties such as strength, thermal stability, and moisture resistance.
- **Wood nanotechnologies:** The integration of nanomaterials and nanotechnologies to create wood-based composites with advanced functionalities.
- **Smart wood materials:** Wood-based materials that exhibit adaptive, responsive, or "smart" functionalities, enabling applications in areas like environmental monitoring, sensing, and soft robotics.
- **Sustainable wood and bamboo products:** The role of wood- and bamboo-derived materials in creating environmentally friendly and sustainable products.
- **Advanced characterization methods:** Cutting-edge techniques for characterizing the structure and properties of wood or bamboo.

We look forward to receiving your valuable contributions.

Guest Editors

Dr. Hao Guan

Dr. Qiuqin Lin

Prof. Dr. Shanshan Jia

Dr. Monika Sarvašová Kvietková

Deadline for manuscript submissions

31 January 2026

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

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).

MDPI