

Special Issue

Mathematical Modeling in Wood Processing

Message from the Guest Editor

Wood is gaining recognition as a sustainable building material because it is a natural and renewable resource and has low carbon impact and low embodied energy. There have been significant advancements made in recent years regarding the application of mathematical models in wood processing, such as for the allocation of resources, wood drying, process optimization, and the design of engineered wood products. Mathematical models are helping to optimize wood processes, reducing the need for costly experiments. This Special Issue explores mathematical modeling in wood processing, and addresses the following topics:

- Drying processes;
- Heat and mass transfer;
- Treatment;
- Assessing forest value;
- Enhancing sawing process;
- Reducing energy use;
- Improving product design and testing;
- Maintaining quality and reducing waste;
- Streamlining wood grading.

Guest Editor

Dr. Chandan Kumar

Agri-Science Queensland, Department of Agriculture and Fisheries,
Salisbury Research Facility, 50 Evans Road (cnr Nettleton Cres),
Salisbury, QLD 4107, Australia

Deadline for manuscript submissions

closed (30 June 2024)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/184825

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 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).