Special Issue

Variability in Wood Properties: Growth Conditions, Species and Anatomical Adaptations

Message from the Guest Editors

Wood is a highly variable biological material whose properties reflect the complex interactions between genetics, environment and management. In the face of increasing climate challenges worldwide, understanding this variability has become more crucial than ever. Extreme environmental factors—such as prolonged drought, heat waves and wildfires—are reshaping forest ecosystems and altering wood formation processes. Differences between natural forests and intensively managed plantations, as well as the impacts of tree breeding and silvicultural practices, further contribute to the structural and functional diversity of wood. This Special Issue invites contributions that explore how growth conditions, genetic improvement and forest management affect wood quality and variability across species and environments. We are particularly interested in studies addressing the introduction of new tree species, the enhancement of climate adaptation and the anatomical, chemical or physiological mechanisms underlying resilience.

Guest Editors

Prof. Dr. Róbert Németh

Faculty of Wood Engineering and Creative Industries, University of Sopron, Bajcsy-Zsilinszky 4, 9400 Sopron, Hungary

Dr. Mátyás Báder

Faculty of Wood Engineering and Creative Industries, University of Sopron, Bajcsy-Zsilinszky 4, 9400 Sopron, Hungary

Deadline for manuscript submissions

20 December 2026



Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



mdpi.com/si/260555

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

mdpi.com/journal/ forests





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).

