# **Special Issue**

# Wood Formation and Environmental Constraints: Multiscale Approach

### Message from the Guest Editors

The combination of a multidisciplinary approach integrating the analysis of xylogenesis with the retrospective reconstruction of past plant growth behaviour through the quantification of functional anatomical and isotopic traits in long-term tree-ring series has already proven to be a powerful tool to provide invaluable information on plant responses to environmental changes. However, given the large variability of involved factors in plant-environment interactions, it is necessary to apply combined multiscale approaches to achieve a better understanding of the complex wood formation process.

This Special Issue of Forests invites contributions in line with a multiscale approach covering a range of different disciplines from the cellular level (genetic, xylogenesis) to individuals (dendrochronology, maximum latewood density, blue intensity, wood anatomy, photosynthesis and flow measurements) and population (modeling). **Keywords:** xylogenesis; dendrochronology; quantitative wood anatomy; functional anatomical traits; isotopic analysis; blue intensity; environment–growth relationships

### **Guest Editors**

Prof. Dr. Veronica De Micco

Dr. Angela Balzano

Dr. Arturo Pacheco

Dr. Giovanna Battipaglia

## Deadline for manuscript submissions

closed (15 September 2021)



# **Forests**

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



mdpi.com/si/54979

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).

