

## Special Issue

# Radial Tree-Ring Traits Variation in Relation to Climate Factors

### Message from the Guest Editor

Tree radius growth occurs based on xylem increments on structures already formed. Tree-rings, annually resolved radial xylem increments. Thus, xylem traits are important variables involved in tree performance and forest function due to the physiological processes involved and the structural traits of the xylem in tree trunk growth.

Trees are necessarily highly plastic in their response to environmental factors. In addition, conflicting demands on the xylem structure can appear under different environmental conditions. Under these circumstances, there are changes in the xylem traits, such as modifications in the cell morphology and chemical composition, changes in cellulose and lignin proportions, and changes in the proportion of cell types, that at the same time induce changes in higher level traits.

We encourage studies from all fields of dendroecology with or without ecophysiological research, including experimental studies, monitoring approaches (phenology, dendrometer records) and models to contribute to this Special Issue in order to promote knowledge and adaptation strategies for the preservation, management, and future development of forest ecosystems.

---

### Guest Editor

Prof. Emilia Gutiérrez Merino

Department of Ecology, University of Barcelona, 08007 Barcelona, Spain

---

### Deadline for manuscript submissions

closed (20 May 2020)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/25300](https://mdpi.com/si/25300)

*Forests*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto: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).