

## Special Issue

# Physiological and Molecular Adaptable Strategies to Abiotic Stress in Forest Trees

### Message from the Guest Editor

This Special Issue calls for research articles or reviews that present novel insights into the response mechanisms of trees under single or multiple abiotic stresses. The topics covered in this Special Issue will be of interest for a broad readership in fields of tree physiology, functional ecology, molecular ecology, and global climate change biology. Potential topics include, but are not limited to, the following:

- Eco-physiological responses to abiotic stress at the whole-plant or organ-tissue levels in trees;
- Neighboring relationship variations between forest trees under environmental stress;
- Molecular adaptable mechanisms to individual or combined environmental stresses;
- Signaling transduction pathway;
- Accumulation of compatible solutes;
- Adjustment of hormonal balance;
- Antioxidative metabolism;
- Different gene expression;
- Synthesis of stress proteins.

### Guest Editor

Prof. Dr. Fan Yang

School of Ecological and Environmental Sciences, Hainan University, Haikou 570228, China

### Deadline for manuscript submissions

closed (31 August 2023)



## Forests

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/144749](https://mdpi.com/si/144749)

*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).