

## Special Issue

# Adaptive Mechanisms of Tree Seedlings to Adapt to Stress

### Message from the Guest Editors

As the most critical stage throughout the plant life cycle, the seedling period plays a crucial role in forest community succession and vegetation restoration. Seedlings are vulnerable to biotic and abiotic stresses during their growth stage. Ongoing climate change is increasing the frequency and intensity of stresses such as drought, flood, extreme temperature, and pest spread. In the long-term evolutionary process, tree seedlings have developed a set of adaptive mechanisms to deal with these stresses. Research on seedling growth mechanisms is helpful to understand and clarify ecological adaptation characteristics that ensure better growth and performance in the field. For this Special Issue, we invite all research undertakings that deal with the adaptation mechanisms of tree seedlings to biotic and abiotic stresses, highlighting their important roles in coping with stresses in forest ecosystems. Thus, this Special Issue is generally aimed at collating up-to-date research findings on various adaptive mechanisms of tree seedlings to stress.

---

### Guest Editors

Dr. Bo Liu

Dr. Shaofei Jin

Dr. Mulualet Tigabu

Dr. Jing Zhou

---

### Deadline for manuscript submissions

closed (28 February 2024)



## Forests

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/153136](https://mdpi.com/si/153136)

*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 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).