

## Special Issue

# Dendrochronology and Wood Anatomy: Revealing How Plants Respond to Changing Environment

### Message from the Guest Editors

We are pleased to announce the upcoming Special Issue on Dendrochronology and Wood Anatomy of Plants, titled “Dendrochronology and Wood Anatomy: Revealing How Plants Respond to Changing Environment”. We invite submissions of all article types that offer novel perspectives, theories, methods, tools, and modeling approaches, focusing on the processes of wood growth at the intra-annual resolution. The studied species may originate from temperate, boreal, subtropical, and tropical ecosystems, both in forests and urban settings. Utilizing the methods of dendrochronology, wood anatomy and isotopes, and xylogenesis, contributors are encouraged to address fundamental and applied questions spanning ecophysiological, morphological, and phenological mechanisms, as well as the mathematical intricacies within trees. The goal is to systematically understand a tree's function and its response to changing climate and environmental conditions. Additionally, we welcome studies on the xylem anatomy of popular plants that do not exhibit growth rings, such as bamboo.

### Guest Editors

Dr. Weiwei Huang

Dr. Patrick Fonti

Prof. Dr. Biao Pan

Dr. Junzhou Zhang

### Deadline for manuscript submissions

31 October 2025



## Plants

an Open Access Journal  
by MDPI

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/195439](https://mdpi.com/si/195439)

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

[mdpi.com/journal/  
plants](https://mdpi.com/journal/plants)





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/journal/  
plants](https://mdpi.com/journal/plants)



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)