



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

Guest Editors:

Dr. Weiwei Huang

Dr. Patrick Fonti

Prof. Dr. Biao Pan

Dr. Junzhou Zhang

Deadline for manuscript
submissions:

31 October 2025

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.





plants



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

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.

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)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)