

IMPACT FACTOR 2.9



an Open Access Journal by MDPI

Abiotic Stress in Tree Species

Guest Editors:

Dr. Hou-Ling Wang

State Key Laboratory of Tree Genetics and Breeding, National Engineering Research Center of Tree Breeding and Ecological Restoration, College of Biological Sciences and Technology, Beijing Forestry University, Beijing 100083, China

Dr. Liu-Qiang Wang

State Key Laboratory of Tree Genetics and Breeding, Research Institute of Forestry, Chinese Academy of Forestry, Beijing 100091, China

Deadline for manuscript submissions:

closed (15 May 2024)

Message from the Guest Editors

Most terrestrial biodiversity is built on the living foundations of trees. Trees are unique with their woody bodies, which requires water and nutrient uptake from underground to tens of meters elevated photosynthetic canopies. The growth and development of trees are susceptible to environmental changes such as drought, soil salinity, heavy metal ion stress and extreme temperatures. Therefore, abiotic stress signaling and physiological response might distinct with herb plants. This Special Issue plans to give an overview of the most recent advances in the research field of abiotic stress in tree species. This Special Issue is aimed at providing selected contributions on advances in the stress sensing, signal transduction, physiological response of tree species under water deficit. salinity, cold, heat, heavy metal stress and other environmental changes.

Potential topics include, but are not limited to:

- Drought stress signaling and responses;
- Cold and heat stress signaling and responses;
- Ionic stress signaling;
- Ca²⁺ and ROS signaling;
- ER stress;
- ABA response and signaling;
- Stomata movement regulation;
- Organelle interaction in abiotic stress.



Specialsue







an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

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.

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), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us