

Special Issue

Tree Ecophysiology: Responses and Adaptation to a Changing Environment

Message from the Guest Editors

Several environmental stressors can affect the life and survival of trees and represent a great concern in the forestry community, especially in view of the current and future climate changes. Drought, global and local warming, land-use changes, fire, pollution, pests and pathogen attacks negatively impair tree physiology and vitality, with consequences for the forest structure, composition and regeneration. Therefore, it is important to study in depth the mechanisms and processes involved in tree responses to different environmental constraints, acting individually, in combination or in temporal sequence. In this Special Issue, we aim to improve the knowledge on forest tree responses and adaptation to environmental constraints, asking for original contributes on physiologically-based studies, which have been carried out in controlled conditions, in the field, with models and remote sensing surveys, including also issues on species interactions and forest management strategies.

Guest Editors

Dr. Martina Pollastrini

Department of Agrifood Production and Environmental Sciences,
University of Florence, Piazzale delle Cascine 28, 50144 Firenze, Italy

Dr. Riccardo Marzuoli

Laboratory of Ecophysiology and Environmental Physics, Department of
Mathematics and Physics, Università Cattolica del Sacro Cuore, via dei
Musei 41, 20125 Brescia, Italy

Deadline for manuscript submissions

closed (31 December 2017)



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/9267

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).