Special Issue

Changes in Chemical Compounds during Tree Growth

Message from the Guest Editor

Trees produce specific structures that constitute a barrier, hindering the penetration of pathogens, as well as substances that inhibit pathogen growth. These secondary metabolites are compounds with bioactive potential that can be safely and effectively used to prevent and/or treat some health concerns, demonstrating antibacterial, antifungal, and antioxidant activity, as well as properties useful in cardiovascular treatment.

The bioactive compounds responsible for the tree defense are naturally accumulated in vulnerable sites and critical periods of growth. However, little is known about what triggers their production during the different stages of tree growth and what compounds are responsible for a specific response to a precise internal or external event. It is though that the natural products in trees will bring about dynamic changes.

This Special Issue aims to investigate the changes in chemical compounds during tree growth. We also welcome forest scholars who study phenolic acids, flavonoids, tannins, alkaloids, diterpenes, essential oils, and lignans, etc., to contribute to this Special Issue.

Guest Editor

Dr. Joana P. A. Ferreira
Forest Research Center (CEF), School of Agriculture, University of Lisbon, Lisbon, Portugal

Deadline for manuscript submissions

closed (15 August 2023)

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/148613

Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

mdpi.com/journal/forests

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/journal/forests

MDPI

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).