

Special Issue

Forest Tree Resistance to Fungi and Insect Pests

Message from the Guest Editors

Forest ecosystems are critical to biodiversity, carbon sequestration, and timber production; however, they face significant threats from fungal pathogens and insect pests, causing widespread damage and economic losses. The recent introduction of genomic and biotechnological techniques has created new opportunities for developing resistant tree varieties and integrated pest management strategies. This Special Issue aims to bring together the latest research on forest tree resistance to fungi and insect pests, with an emphasis on both basic and applied aspects. We are looking for papers that address the following topics:

- The genetic and molecular mechanisms of forest resilience;
- How climate change affects these interactions;
- The physiological and biochemical responses of trees;
- Integrated pest management strategies;
- The role of symbiotic fungi in enhancing resistance;
- Interactions between fungi, insects, and trees.

We welcome original research articles, reviews, short communications, and perspectives that contribute to advancing our understanding of forest tree resistance to fungi and insect pests.

Guest Editors

Prof. Dr. Ying-Ning Zou

Hubei Key Laboratory of Spices & Horticultural Plant Germplasm Innovation & Utilization, College of Horticulture and Gardening, Yangtze University, Jingzhou 434025, China

Prof. Dr. Qiang-Sheng Wu

Hubei Key Laboratory of Spices & Horticultural Plant Germplasm Innovation & Utilization, College of Horticulture and Gardening, Yangtze University, Jingzhou 434025, China

Deadline for manuscript submissions

31 October 2026



Forests

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/235014

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 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).