forests

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 4.6

Forest Resistance to Insect Pests

Guest Editors:

Prof. Dr. Valentyna Meshkova
Department of Entomology, Phytopathology and Physiology, Ukrainian Research Institute of Forestry and Forest Melioration, Kharkiv, Ukraine

Prof. Dr. Jaroslav Holuša
Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague, 16501 Praha, Czech Republic

Dr. Mihai-Leonard Duduman
Forestry Faculty, "Stefan cel Mare" University of Suceava, Universităţii Street 13, 720229 Suceava, Romania

Deadline for manuscript submissions:
closed (29 March 2024)

Message from the Guest Editors

The harmfulness of bark and wood-boring insects depends on their ability to colonize healthy trees, weaken them by maturation feeding, transfer pathogens, and on the shape and depth of galleries. The harmfulness of defoliators depends on their feeding rate and duration of the feeding period. However, each phytophagous insect may be a pest in one stand or region and not a pest in another. It depends on climate; tree species composition and canopy structure; and phenological asynchrony between herbivorous insects, host trees, and entomophags. Forest resistance to insects also depends on the genetic traits and initial health condition of trees, as well as their response to other natural and anthropogenic disturbances. This Special Issue welcomes novel research focused on various aspects of pest–forest interactions, host tree and forest stand resistance, and tolerance to insect damage.

Potential topics include, but are not limited to:

- physical, chemical, constitutive, and inducible tree defenses;
- host and habitat preferences;
- resistance of tree clones and hybrids;
- phenological resistance;
- the role of tree resistance in insect invasions and tree introductions.

mdpi.com/si/181162

Special Issue

forests

IMPACT FACTOR 2.5

CITESCORE 4.6

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

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.

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 - Q2 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/forests
forests@mdpi.com
𝕏@Forests_MDPI