

Special Issue

Pest Infestation in Trees: Mechanisms, Effects and Control Methods

Message from the Guest Editors

Forests and urban trees are facing escalating threats from native and invasive pests on a global scale, causing significant ecological disruption, economic losses, and diminished ecosystem services.

Understanding the intricate mechanisms of infestation—including host selection, colonization strategies, feeding ecology, vector–pathogen interactions, and tree physiological responses—is fundamental to developing effective countermeasures. Quantifying the multifaceted effects of these infestations is particularly crucial, encompassing impacts on individual tree health, growth, and mortality; alterations to forest structure, biodiversity, and resilience; and broader socio-economic consequences. We welcome original research and reviews on integrated pest management (IPM) strategies, such as biological control, silvicultural practices, host resistance breeding, chemical ecology (semiochemicals), precision technologies, and environmentally compatible interventions. We particularly seek contributions that address emerging challenges posed by climate change, the spread of invasive species, novel detection/monitoring techniques, and the integration of multidisciplinary approaches.

Guest Editors

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Deadline for manuscript submissions

30 April 2026



Forests

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CiteScore 4.6



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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.

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