



forests

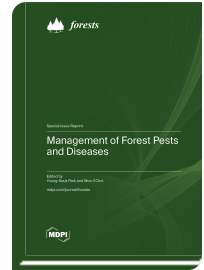


Special Issue Reprint

Management of Forest Pests and Diseases

www.mdpi.com/books/reprint/12029

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ISBN 978-3-7258-6023-4 (Hardback)
ISBN 978-3-7258-6024-1 (PDF)

Forests are complex ecosystems sustained by interactions among countless organisms. Insects and microorganisms play essential roles in nutrient cycling and energy flow, yet many also act as pests and pathogens, threatening forest health and stability. This paradox—the presence of organisms that support ecological balance but can also disrupt it—is intensified by two global forces: the introduction of alien species and climate change. Global trade and travel facilitate biological invasions, while rising temperatures and shifting climates expand the range and reproduction of many pests and pathogens, contributing to recent outbreaks. Effective surveillance and monitoring are crucial for sustainable forest management. Early detection, rapid response, and long-term planning will help to mitigate their impacts, guide targeted control strategies, and advance scientific understanding.

In this Special Issue, we compile interdisciplinary research addressing the interactions between pests, pathogens, climate, and human activity. By informing policy and management, we aim to support healthier, more resilient forests and foster collaboration among researchers, practitioners, and policymakers.



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