

Special Issue

Variability in Wood Properties: Growth Conditions, Species and Anatomical Adaptations

Message from the Guest Editors

Wood is a highly variable biological material whose properties reflect the complex interactions between genetics, environment and management. In the face of increasing climate challenges worldwide, understanding this variability has become more crucial than ever.

Extreme environmental factors—such as prolonged drought, heat waves and wildfires—are reshaping forest ecosystems and altering wood formation processes.

Differences between natural forests and intensively managed plantations, as well as the impacts of tree breeding and silvicultural practices, further contribute to the structural and functional diversity of wood. This Special Issue invites contributions that explore how growth conditions, genetic improvement and forest management affect wood quality and variability across species and environments. We are particularly interested in studies addressing the introduction of new tree species, the enhancement of climate adaptation and the anatomical, chemical or physiological mechanisms underlying resilience.

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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.

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