

## Special Issue

# Wood Anatomy and Evaluation of Wood Structures and Their Modifications—2nd Edition

### Message from the Guest Editors

Wood is a remarkably complex and fascinating biological structure and natural lignocellulosic polymer. Xylem provides water with conductive function, structural support to the tree, as well as serving in the storage of nutrients. Xylem is built with different cell types and structures, which not only evolved over hundreds of millions of years to accomplish their function, but also undergo a continuous and rapid adaptation during their lifetime. Wood anatomy and atypical wood structures can serve as markers to reconstruct events in time, and they can provide important information regarding the adaptive response to functional and ecological variations and the recovery ability of a tree. Moreover, understanding xylem structures and responses may be useful in predicting functional trends and climate change impacts on woody plants. This Special Issue aims to provide an overview of the latest knowledge on xylem anatomy evaluation and the codification of xylem structures linked with their functional and ecological rule.

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### Guest Editors

Prof. Dr. Veronica De Micco

Dr. Maks Merela

Dr. Angela Balzano

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### Deadline for manuscript submissions

closed (15 June 2025)



## Forests

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### Editor-in-Chief

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