Special Issue

Wood Formation and Environmental Constraints: Multiscale Approach

Message from the Guest Editors

The combination of a multidisciplinary approach integrating the analysis of xylogenesis with the retrospective reconstruction of past plant growth behaviour through the quantification of functional anatomical and isotopic traits in long-term tree-ring series has already proven to be a powerful tool to provide invaluable information on plant responses to environmental changes. However, given the large variability of involved factors in plant–environment interactions, it is necessary to apply combined multiscale approaches to achieve a better understanding of the complex wood formation process.

This Special Issue of Forests invites contributions in line with a multiscale approach covering a range of different disciplines from the cellular level (genetic, xylogenesis) to individuals (dendrochronology, maximum latewood density, blue intensity, wood anatomy, photosynthesis and flow measurements) and population (modeling).
Keywords: xylogenesis; dendrochronology; quantitative wood anatomy; functional anatomical traits; isotopic analysis; blue intensity; environment–growth relationships

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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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