



Dendroecological Wood Anatomy and Xylogenesis

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Deadline for manuscript
submissions:

closed (10 June 2021)

Message from the Guest Editor

In recent years, dendrochronology analysis has evolved from the ‘classical’ analysis of tree-ring width to more functional-related trends in order to better understand the role of environmental factors on tree performance. Among them, wood anatomy is one of the fields that has deserved more attention. For the last two decades, the measurement of anatomical traits such as conduit size has been proven to broaden the possibilities to establish robust climate–growth relationships for many tree species and thus contribute to the study of their behavior to face global change. However, understanding the environmental responses of trees requires not only the existence of a strong association but also the existence of reliable cause–effect relationships. The analysis of the dynamics of wood formation (xylogenesis) is a powerful tool to establish this link. In this Special Issue, we welcome all studies dealing with tree-ring formation and its relation to the environment, from cambial activity to the resulting wood structure, with a special focus on those characteristics or processes that provide information at an annual or intra-annual scale.





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Message from the Editor-in-Chief

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