



Stable Isotopes in Forest Ecosystem Research

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Message from the Guest Editors

Globally, forests are able to fix about 30% of annual anthropogenic CO₂ emissions, and may be responsible for 70–90% of continental water losses. Therefore, understanding forest response to environmental drivers is crucial to anticipate and eventually mitigate the impacts of future global change. For this purpose, stable isotopes analysis has become a particularly suitable tool, offering time- and space-integrated information on the environmental effects on tree physiology and the implications for carbon, water and nutrient ecosystem balances. In this Special Issue, we invite studies developing applications of stable isotopes in forest ecology, tree physiology and ecohydrology, as well as modelling or empirical studies aimed at improving our mechanistic understanding of isotope fractionation in trees.

Deadline for manuscript submissions:

closed (31 May 2019)





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Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

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