

Special Issue

Stable Isotopes in Forest Ecosystem Research

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.

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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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