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# **Isotope Application in Forest Growth Assessment**

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## **Message from the Guest Editors**

Dear colleagues,

Stable isotopes are valuable sources of information about past climatic and environmental changes, and their impact on forest growth and dynamics.

This special issue focuses on:

- application of stable and compound-specific isotope analyses (d¹³C, d¹8O, d¹⁵N and dD) in wood tissues as sensitive indicators for biogeochemical, eco-physiological and metabolic changes at the tree to the forest level;
- forest productivity changes, die-back phenomena and adaptive responses of trees to global change;
- extreme climatic events: impacts and approaches for their reconstruction;
- evaluation of the effects of disturbance and competition over the expression of tree-ring stable isotopes in natural versus managed forests;
- potential application of stable isotopes from the study of hydrological processes to pollution influences.

Dr. Giovanna Battipaglia Dr. Olga Churakova (Sidorova) *Guest Editors* 











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