

Special Issue

Dendrochemistry: Tools for Evaluating Variations in Past and Present Forest Environments (2nd Edition)

Message from the Guest Editor

Dendrochemistry, the measurement of inorganic elements in tree growth rings followed by the analysis and interpretation of changes in environmental chemistry through time, is both promising and challenging. For environmental situations in which the abundance of one or multiple elements has changed through time, the direct monitoring of environmental chemistry might not extend very far back in time, if at all. Therefore, estimating the past elemental abundance of a site using trees is enticing. Given that dendrochemistry truly works, it could be applied to many environmental situations such as long-term changes in forest soil chemistry, abrupt elemental changes due to natural causes, or subtle increases in elements that might be harmful to human health (e.g., various metals) due to inadvertent contamination. However, as a young subdiscipline of tree-ring analysis, dendrochemistry still has issues that hamper its use in environmental reconstruction and analysis. This Special Issue will compile examples of research that speaks to issues of dendrochemistry and/or applies it to interesting environmental chemistry situations.

Guest Editor

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Message from the Editor-in-Chief

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