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Forest Stand and Biomass Management

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Deadline for manuscript
submissions:

25 November 2024

Message from the Guest Editor

The biomass of forest stands is the foundation for industries such as energy, furniture, pulp, and paper. Additionally, forest stands contribute to the generation of ecosystem services and the mitigation of climate change through carbon sequestration. Due to their rapid growth and the potential carbon stock in different tree compartments, forest stands have been implemented in low-productivity soils or degraded areas, contributing to the transition to a low-carbon economy and restoring productivity in these areas.

Conservation practices are being implemented. Consequently, partitioning tree biomass into components such as roots, stemwood, stembark, branches, and leaves is imperative for understanding nutrient outputs resulting from forest harvesting and for estimating the mineral fertilizers required for replenishment in subsequent rotations. Therefore, investigating biomass allocation in different forest stands is essential for understanding ecosystem dynamics and improving forest management. This SI aims to examine the production and chemical composition of tree biomass compartments in order to recommend conservative practices. Research articles and reviews are welcome.



mdpi.com/si/199634

Special Issue



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

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