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Carbon and Nutrient Accumulation and Decomposition in Forests

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Deadline for manuscript
submissions:

closed (20 December 2021)

Message from the Guest Editors

Carbon and nutrient accumulation (stocks) by forest stands play a significant role in assessing the potential impacts of sustainable forest management and biogeochemical cycles in forest ecosystems. The quantitative evaluation of these stocks in forest stands is important because of the role of carbon sequestration in mitigating global climate change and supporting sustainable forest productivity. Estimates of carbon and nutrient stocks in forest stands can be made at global, national, regional, landscape, and stand scales. For example, the role of such stocks in forest stands is likely to vary on a stand scale because the nutrient conversion rates and carbon allocation mechanisms differ between tree species. Other factors, such as tree biomass, site conditions, and forest management practices, can result in variations in carbon and nutrient stocks on a temporal and spatial scale. This Special Issue deals with these processes based on field experiments, modeling, reviews, and highlights emerging technologies to evaluate carbon and nutrient accumulation, both aboveground and belowground, in forest stands. Studies focused on organic matter inputs and decomposition are also welcome.



mdpi.com/si/63300

Special Issue



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

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