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Growth and Allocation of Woody Biomass in Forest Trees Based on Environmental Conditions

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Message from the Guest Editors

Forest ecosystems are important because of their key role in reducing atmospheric greenhouse gas concentrations by storing a large amount of carbon in biomass and soils. The relative amount of above- and below-ground biomass allocated among different tree tissues is a functional indicator of forests' health reflecting the material flow, the wood quality and the plant survival strategy. The way in which plants steer their photosynthetic products across their compartments is not fixed but likely vary over time, across growth environments and among species and, lastly, is influenced by plant size. Obtaining a qualitative/quantitative understanding of the influence that these factors have on both growth and biomass allocation is of fundamental importance either in understanding plant ecology and evolution and into developing environmental policies and useful forest management practices to cope with future climate change.



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Special Issue



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