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Plant Effects on Soil Carbon Stabilization in Forests: Patterns, Processes and Mechanisms

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Message from the Guest Editors

Dear Colleagues,

Forest soils play important roles in the maintenance of ecosystem goods and services, biodiversity conservation, the mitigation of global climate change, and adaptation. Many critical questions remain to be addressed, e.g., the extent to which a plant/plant community affects soil carbon stabilization and destabilization at different scales; the relative contribution of plant carbon input aboveground versus belowground to soil carbon decomposition versus formation; and the relative importance of potential influences related to plant species, communities, soil properties, climate conditions and microbe-derived variables and their responses to management activities.

We thus explore the processes, patterns, and mechanisms of plant effects on soil carbon stabilization in forest ecosystems under human disturbance, including but not limited to: carbon decomposition, destabilization, formation, stabilization, interactions with biological and/or abiotic factors. Plant effects on other processes (e.g., nutrient cycling) are also of interest. We encourage studies from all fields, including experimental studies, reviews, and models, to contribute to this Special Issue.



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Special Issue



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