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Soil Carbon Storage in Forests: Mechanisms, Dynamics, and Management

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Message from the Guest Editor

Soils store approximately three times more organic carbon than global terrestrial vegetation. Indeed, forests cover about one third of the global land area and contain the largest soil carbon pool among terrestrial biomes. Forest soil carbon dynamics thus have important feedbacks to the climate system via either sequestering or releasing CO₂. This Special Issue aims to present the most recent field and modelling studies to improve our understanding of the mechanisms and dynamics of soil carbon storage in natural and managed forest ecosystems. Special attention is paid to the impacts of climate warming, nitrogen deposition, rising CO₂ concentrations, land use changes, and other extreme disturbances (e.g., fire). In view of these global and regional forces, forest management options to increase soil carbon storage are increasingly in need, and relevant studies are also included in this Special Issue.



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Special Issue



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