



The Forest Soil Carbon in a Changing World

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Message from the Guest Editors

The forest ecosystem, where the soil carbon pool accounts for 45% of its carbon stock, is the largest carbon pool in the terrestrial ecosystem. Global changes are affecting forest soil carbon processes, leading to positive or negative feedback from forests to the atmosphere. Therefore, a comprehensive understanding of the mechanisms by which forest soil carbon processes respond to global changes is necessary. The soil carbon process is regulated by multiple factors, including aboveground litter, root turnover, rhizosphere exudates, microbial decomposition and physical and chemical properties. With the intensification of global changes and the interaction of global change factors, the forest soil carbon process is becoming more complex. This Special Issue aims to provide an important scientific basis for climate change mitigation and further enrich the theory of carbon processes.

Potential topics include, but are not limited to:

- Root production;
- Root exudates;
- Root phenology;
- Soil respiration;
- Soil carbon components;
- Role of roots and microbes in regulating soil carbon.





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Message from the Editorial Board

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