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Forest Soil Carbon and Climate Change

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Deadline for manuscript submissions:
closed (10 April 2024)

Message from the Guest Editors

Forest ecosystems cover ~22% of terrestrial area but contribute ~50% of terrestrial carbon (C) reserves. With ~70% of forest carbon being stored in soils, even slight changes in forest soil C stock could exert impacts on the atmospheric CO2 concentration. It is now becoming generally recognized that the magnitude and stability of forest soil C are influenced by climate changes, such as global warming, changes in precipitation regime, and extreme climatic events. This Special Issue aims to understand the impacts of climate change on soil C cycling, including soil C inputs, outputs, stabilization, and their underlying mechanisms in forest ecosystems. We invite submissions of studies on soil C cycling in response to climate change, which include, but are not limited to, the following topics:

Forest soil organic C and its fractions under changing climate;
Forest soil C fluxes in response to temperature and precipitation changes;
Effects of climate change on soil C stabilization in forests;
The interactive effects of global change factors;
Thermal acclimation of soil C microbial-driven C processes in forests;
Simulating soil C dynamics under climate scenario in forests.

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Message from the Editorial Board

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