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Soil Organic Carbon and Nutrient Cycling in the Forest Ecosystems

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Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editors

As the main component of terrestrial ecosystems, forest plays an important ecological service function. Forest soil stores a large amount of organic carbon, and the effective use of its carbon sink capacity is conducive to the realization of carbon neutrality. At the same time, the nutrient cycle of forest soil is accompanied by the energy flow, which determines the health and development of forest ecosystems. Due to the complexity of subsurface processes and the limitation of field observation, the study of forest soil processes has long been a difficult as well as an advanced field in forest ecology.

Therefore, this Special Issue aims to bring together important research on soil organic carbon and nutrient cycling in forest ecosystems, including (1) the mechanism of soil organic carbon and nutrient cycling influenced by plant traits and their diversity; (2) the interaction of soil organic carbon and nutrient cycling with root secretions, rhizosphere microorganisms, and litter quality; (3) and the response of soil organic carbon and nutrient cycling to anthropogenic or natural disturbances.

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Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

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