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Biogeochemical Processes of Nutrients in Soil and Sediments: C, N, and P Cycling

Guest Editor:

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Message from the Guest Editor

Coupled biogeochemical mechanisms are involved in the cycling of nutrients, such as carbon, nitrogen, and phosphorus, in soils and sediments influencing the nutrients' partitioning between biotic and abiotic compartments. Soil–plant–microbial interactions mediate nutrients' mineralization/immobilization, sorption/desorption, precipitation/dissolution, and leaching.

This Special Issue, 'Biogeochemical Processes of Nutrients in Soil and Sediments: C, N, and P Cycling', invites authors to submit their manuscripts addressing new findings in soil nutrient cycling. Some potential topics include the effects of agricultural management practices on nutrient cycling, impacts of soil amendments (organic and/or inorganic) on nutrient dynamics, soil microbial gene expression regulating enzyme activity involved in nutrient cycling, role of minerals (Fe- and Mn-(oxy)hydroxides, aluminosilicate clays) on nutrient stabilization and leaching, and nutrient association with supramolecular humic substances. Papers describing nutrient dynamics in agricultural, wetland, and other natural ecosystems are encouraged for submission.