Special Issue

Nutrition and Fertilization of Forest Trees and Associated Soil Microbial Processes

Message from the Guest Editors

Forest tree growth requires efficient uptake of essential nutrients from heterogeneous and often depleted soil environments. This process involves complex physiological regulations within roots, but also between aboveground and belowground plant parts and at the root–soil microbiome interface. New tools are available for the study of plant roots, the rhizosphere, and the soil microbiome, improving research into how conventional and organic fertilization practices and rising nutrient depositions affect plant-microbial interactions, soil microbial nutrient cycling and consequently the nutrition of trees and other forest vegetation. This Special Issue is dedicated to new knowledge and understanding of these interactions as they relate to plant nutrition in the context of fertilization practices; environmental change and decision-making; use of the latest observational or analytical methods or develop new modeling frameworks to capture and/or predict outcomes of plant-soil-microbial interactions on plant nutrition; innovative or targeted fertilization approaches; practices; or fertilizer sources.

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