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Summary

Wetlands are an important land use throughout the world. Vegetation is the primary source of organic matter for various microbial communities in natural wetlands. Changes in nutrient availability or litter quality and quantity may alter microbial dynamics, driving stoichiometric feedbacks between primary producers, their consumers and decomposers within ecosystems and at local scales. The application of ecological stoichiometry the study of stoichiometric patterns in soil resources, microbial biomass and extracellular enzyme activities and their relationships with vegetation types may provide novel insight into how the balance of the multiple elements required by organisms affects production, nutrient cycling.

Research Expertise

- Freshwater ecology
- Ecology stoichiometry
- Biogeochemistry