

Dissolved organic matter dynamics on land and in aquatic environments

キーワード Dissolved organic matter, Soil, Inland water

■ 研究概要

In soils, dissolved organic matter (DOM) is the most bioavailable fraction of dissolved organic matter hence medium for soils and micro-organisms. DOM is important in a number of processes in both aquatic and terrestrial environments, its relative importance is, however affected by intrinsic properties among other site specific factors. DOM exported from terrestrial areas shapes behavior in aquatic areas. My research interests include: Organic matter processing and export; Human activities, land use and DOM dynamics; Microbial diversity and DOM chemodiversity; Inland water pollution and Contaminants of emerging concern. I have worked on various topics to understand DOM dynamics and interactions with trace metals in soils and dammed streams, and the influence of various factors on DOM (Figure 1).

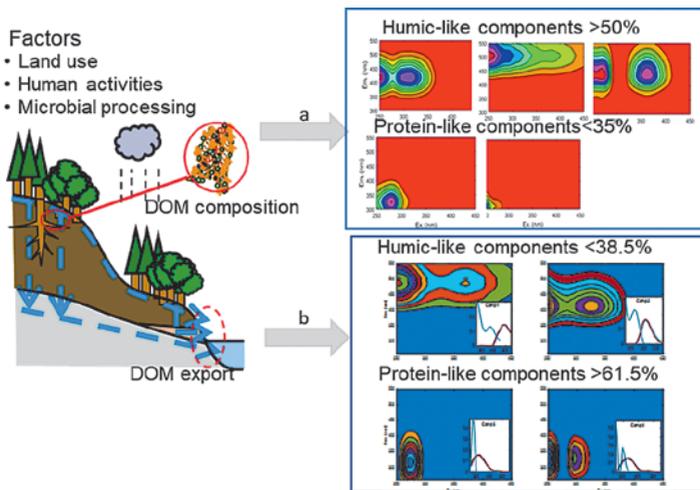


Figure 1. DOM processing and export, influence of various factors on DOM intrinsic properties in (a) Forest and arable soils, (b) treated wastewater irrigated paddy soils

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