

# SILICAMICS 4

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## Plant silicification by biome

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All plants accumulate silicon, but there are strong phylogenetic patterns in accumulation across multiple plant parts. Previous studies and reviews have largely focused on the role of Si accumulation in plant functional types, functions of silicon in plants, or specific ecosystems. Here the role of plant silicon, in terms of quantity, dynamics and function, is considered from a biome perspective, with a focus on terrestrial systems, but also considering marine and freshwater biomes. Which biomes are best studied and where are the biggest gaps?