

Special Issue

Rhizoliths in Paleoenvironmental Reconstruction

Message from the Guest Editor

Rhizoliths, the mineralized products of root–sediment interactions, constitute a significantly underutilized proxy in paleoenvironmental research despite their widespread occurrence in sedimentary sequences. While the paleobotanical community has extensively exploited leaf morphology, palynological assemblages, and wood anatomy for paleoclimate reconstruction, rhizoliths have received comparatively minimal attention in the literature. This systematic neglect represents a critical gap in our methodological arsenal, particularly given rhizoliths' unique preservation potential and distinctive formation mechanisms. Recent geochemical analyses demonstrate that rhizolith carbonate phases preserve robust isotopic signatures reflecting soil CO₂ concentrations, precipitation patterns, and temperature regimes. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/geosciences/special_issues/0UU75L8R81

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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