



water

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Functions of Groundwater in the Earth's Critical Zone: The Interplay between Organic Matter and Microbial Communities

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Message from the Guest Editor

This Special Issue aims to update the knowledge on organic matter composition and biogeochemical processes in groundwater by improving the current understanding of their structure and interactions with surrounding matrix including microorganisms. Understanding the biogeochemical processes that govern groundwater in the deep critical zone is expected to improve the current understanding of groundwater's origins, bioavailability, and chemical composition. This research will shine the light on groundwater organic matter processing and transport pathways.

We welcome original research, methods, opinions, reviews, and perspective articles focused on:

- The biological activity of organic matter in groundwater through evaluation of their mode of action throughout different seasons, and different surface processes;
- The development and application of innovative chemical and physical techniques to characterize the molecular structure and function of organic matter in groundwater;
- Biotic and abiotic factors that influence organic matter processing in groundwater;
- Biogeochemical processes governing the flow of groundwater to rivers, wetlands, and costal environments.



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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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