

## Special Issue

# Advancing Applications in Hydrogeochemical Processes in Groundwater Systems

### Message from the Guest Editors

The study of hydrogeochemical processes in groundwater systems plays a pivotal role in understanding the quality, availability, and sustainability of water resources. Recent advancements in analytical techniques and computational modeling have significantly enhanced our ability to predict and manage groundwater chemistry. Moreover, integrating geochemical data with hydrological models provides a holistic approach to groundwater management, essential for addressing global challenges such as water scarcity, pollution, and climate change. Advancing applications in hydrogeochemical processes in groundwater systems cover a wide range of areas, including, but not limited to, contaminant transport and remediation, nutrient pollution, biogeochemical cycling, isotopic and geochemical tracing, emerging contaminants and water quality concerns, machine learning and big data in hydrogeochemistry, predictive modeling, and applications in karst groundwater systems. As the demand for clean groundwater increases, advancing applications in hydrogeochemical processes become indispensable for sustainable water resource management and environmental protection.

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### Guest Editors

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### Deadline for manuscript submissions

20 July 2026



## Water

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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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### Editor-in-Chief

Dr. Jean-Luc PROBST

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