

## Special Issue

# Research on Hydrogeology and Hydrochemistry: Challenges and Prospects

### Message from the Guest Editors

This Special Issue welcomes research papers addressing the multifaceted challenges and opportunities surrounding groundwater. We encourage submissions encompassing hydrogeological, hydrological, hydrochemical, and geo-physical investigations, but not limited to, the following topics:

- Hydrochemistry (major ion chemistry, trace elements, stable and radioactive isotopes, established and emerging pollutants, time series and big data analyses);
- Geochemistry influencing groundwater chemistry and/or vice versa;
- Groundwater legislation and protection (e.g., drinking water protection zones and vulnerability assessments);
- Current challenges in groundwater management: climate change (decreasing quantities, seawater penetration into aquifers), population increase (technical applications in agriculture and energy sectors; pollutants);
- Porous, fractured, and karstified aquifer research including monitoring, data analyses, mapping, conceptualization, modeling and simulations;
- Early warning system development;
- Enhanced and/or artificial recharge strategies;
- Utilization of shallow and deep aquifers for geothermal energy applications.

### Guest Editors

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### Deadline for manuscript submissions

20 November 2025



## Water

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## About the Journal

### 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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