

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

Dr. Josip Terzić

Department of Hydrogeology and Engineering Geology, Croatian Geological Survey, 10000 Zagreb, Croatia

Dr. Staša Borović

Department of Hydrogeology and Engineering Geology, Croatian Geological Survey, 10000 Zagreb, Croatia

Deadline for manuscript submissions

closed (20 November 2025)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/203195

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

[mdpi.com/journal/
water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



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.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)