

Special Issue

Groundwater Pollution: Sources, Mechanisms, and Prevention (Second Edition)

Message from the Guest Editors

Groundwater resources are vital for ecosystems and for human health and prosperity. This Special Issue aims to present new research contributions in the area of groundwater contamination and will focus on the sources, effects, and exposure of natural and artificial groundwater pollutants, hydrological processes, and hydrochemical properties of groundwater, the intrinsic and specific vulnerability of groundwater to pollution, human health risk assessments, and recent trends in management and pollution mitigation, prevention, and remediation strategies. Potential themes include, but are not limited to, the following:

- Investigating anthropogenic and natural sources of groundwater contamination;
- Intrinsic and specific vulnerability of groundwater to pollution;
- Monitoring of groundwater quality;
- Seawater intrusion and strategies for its management and control;
- Numerical simulation and statistical analysis of groundwater flow and contamination transport;
- Human health risk assessments of groundwater;
- Impact of climate change on groundwater pollution;
- Prevention and mitigation measures, remediation techniques, and policy making.

Guest Editors

Dr. Pantelis Sidiropoulos

School of Rural and Surveying Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Dr. Ilias Siarkos

Department of Civil Engineering, School of Engineering, Democritus University of Thrace, 67100 Xanthi, Greece

Deadline for manuscript submissions

31 January 2026



Hydrology

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.9



mdpi.com/si/227969

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

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





Hydrology

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.9



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Ezio Todini

Italian Hydrological Society, Piazza di Porta San Donato 1, 40126
Bologna, Italy

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg,
GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1
(Oceanography)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 15.3 days after
submission; acceptance to publication is undertaken in 2.9
days (median values for papers published in this journal in
the second half of 2024).