Special Issue

Advances in Catchments Hydrology and Sediment Dynamics (Second Edition)

Message from the Guest Editors

In a time where matters pertaining to water demand/scarcity, flood control, land degradation and sedimentation in streams and reservoirs grow into first-line priorities for catchment managers and stakeholders, understanding the hydrological processes and sediment dynamics is more relevant than ever. In recent years, water and sediment cycles have been subjected to stresses such as extreme storms or drought or fluctuations in the flow regime; hence, any advancements in hydrology, flow, and sediment dynamics are crucial. A range of techniques, including modeling, remote sensing, field measurements, and experimental methods, are currently used in relevant studies. These techniques lead to simulations, data monitoring and analysis, or empirical observations. The aim of this issue is to investigate the hydrological processes in surfaces or groundwater, as well as the soil erosion and/or stream sediment transport processes at any temporal or spatial scale throughout a catchment, including experimental plots. Studies on the entire chain of the aforementioned processes, or on single parts of the chain, are equally welcomed.

Guest Editors

Prof. Dr. Vlassios Hrissanthou
Dr. Konstantinos Kaffas
Dr. Giuseppe Roberto Pisaturo

Deadline for manuscript submissions

closed (31 March 2026)

Hydrology

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.0

mdpi.com/si/221582

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

mdpi.com/journal/hydrology

Hydrology

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.0

mdpi.com/journal/hydrology

About the Journal

Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems. The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

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 17.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).