

Special Issue

Hydrodynamics and Water Quality of Rivers and Lakes

Message from the Guest Editors

The aim of this Special Issue is to address environmental problems (e.g., natural, and anthropogenic stressors) for surface aquatic environments, such as rivers, lakes, and reservoirs, in direct correlation with the use of water for various purposes. Water movement in these systems, as well as the disturbances on the system (e.g., extreme hydroclimatic events), influences its physical–chemical characteristics (temperature, dissolved oxygen regime, nutrient concentrations, etc.) and the distribution of pollutants, sediments, or aquatic organisms; therefore, there is a need to investigate and propose a form of targeted management (e.g., remediation measures). Therefore, directions to be approached can be related to both the discussion of the fundamentals of hydrodynamic in surface waters, such as rivers, lakes, and reservoirs, and the management of surface water systems, which requires technical abilities. To this end, this Special Issue aims at providing an integrated approach of hydrodynamics, sediment transport, pollutants transport and transformations, water quality, and eutrophication in surface water systems.

Guest Editors

Dr. Gabriela Elena Dumitran

Dr. Liana Ioana Vuta

Dr. Elisabeta Cristina Timis

Dr. Minxue He

Deadline for manuscript submissions

closed (31 May 2025)



Hydrology

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



mdpi.com/si/173525

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 3.2
CiteScore 5.9



[mdpi.com/journal/
hydrology](https://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 15.7 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).