

Special Issue

Fluid Flow and Contamination in Porous Media for Hydrological and Water Resources Applications

Message from the Guest Editors

This Special Issue of *Hydrology*, titled '*Fluid Flow and Contamination in Porous Media for Hydrological and Water Resources Applications*', invites submissions aiming to enhance our knowledge and understanding of the between hydrochemical parameters interactions and groundwater. The submissions should explore the impact of these parameters on the quality and quantity status of aquifer systems, map the spatio-temporal patterns of driving factors in groundwater processes, and contribute to the formulation of water policies. Submissions to this Special Issue may cover a range of topics related to any application in which the underlying mechanism is fluid flow in porous networks. Typically, such topics are approached via the use of the following techniques:

- Physical and/or statistical modelling and/or experiments to estimate aquifer properties and to describe the governing processes.
- Machine learning (ML) and multivariate statistical tools for classification and estimation purposes.
- The Optimization techniques of water resources allocation.

For more details, please access the SI webpage.

Guest Editors

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Deadline for manuscript submissions

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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

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Author Benefits

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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).