

Special Issue

Soil–Water–City Nexus in Urban Environment: Experimental Investigations and Numerical Analysis in Urban Hydrology Science

Message from the Guest Editors

We are inviting submissions to a Special Issue of *Hydrology* on the subject area of “Soil–Water–City Nexus in Urban Environment: Experimental Investigations and Numerical Analysis in Urban Hydrology Science”. Ongoing urban development has significantly changed the landscape with the consequent alterations of the hydrological processes in urban areas. This Special Issue will investigate the dynamics of these processes and it will explore topics related to recent advances in methods and techniques to improve resilience in urban areas, such as low-impact development techniques. The main topics of interest for this publication are as follows:

- Stormwater qualitative–quantitative experimental investigations;
- Numerical modeling of urban drainage systems;
- Data analysis and numerical modeling of infiltration processes in the urban environment;
- Water resource optimization systems;
- Modeling of prediction and prevention of critical situations;
- Monitoring systems of hydraulic structures;
- Investigation on hydrological and hydraulic forecasting and management models;
- Life cycle assessment investigation.

Guest Editors

Prof. Patrizia Piro

Dr. Michele Turco

Dr. Stefania Anna Palermo

Dr. Behrouz Pirouz

Deadline for manuscript submissions

closed (20 November 2023)



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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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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 16.5 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2026).