

Special Issue

Eco-Hydrological Process Response under Extreme Climatic Conditions

Message from the Guest Editors

As the consequence of global warming, the frequency, intensity, and duration of climate extremes have increased across the globe, and a wide variety of extreme climate event types are happening with diverse spatial and temporal distributions. Moreover, compound extreme events, such as simultaneous droughts and heatwaves, lack comprehensive consideration in terms of their impact on regional ecological hydrological processes. The aim of this Special Issue is to promote research on eco-hydrological processes under extreme climatic conditions, contributing to a better understanding of the current field and providing data support for policy-making. This Special Issue will welcome manuscripts that link the following themes:

- ecological hydrological monitoring;
- active or passive remote sensing methods;
- distributed hydrological modelling;
- software tool development for data collection and processing.

Guest Editors

Dr. Lilin Zheng

Key Laboratory of Geographic Information Science (Ministry of Education), School of Geographic Sciences, East China Normal University, Shanghai 200241, China

Dr. Zhiqiang Tan

Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, Nanjing 210008, China

Deadline for manuscript submissions

closed (29 February 2024)



Hydrology

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.9



mdpi.com/si/182705

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 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).