Special Issue

Impacts of Climate Change and Human Activities on Wetland Hydrology

Message from the Guest Editor

This Special Issue is predominantly concerned with recent advances linked to the assessment of impacts of both climate change and human activities on wetland systems, including hydrology and pollution. As climate change becomes a major challenge for many regions, wetlands are some of the first natural systems that suffer from a lack of water during dry periods. The aim of this Special Issue is therefore to find practical solutions, such as an improved water table management, to prevent wetlands from further degradation and support both society and industry with water in a sustainable manner. In order to support the aim of this Issue, the following key themes are proposed: (a) the identification and assessment of climate change on wetlands, including constructed wetlands and peatlands; (b) the control of and reduction in human activities, such as irrigation in the agricultural industry negatively impacting wetland hydrology; (c) water table management of wetland systems; (d) engineering solutions to prevent wetland degradation; and (e) the sustainable management of the hydrological cycle to optimize water usage.

Guest Editor

Prof. Dr. Miklas Scholz

1. Department of Civil Engineering Science, School of Civil Engineering, and the Built Environment, Faculty of Engineering and the Built Environment, University of Johannesburg, Kingsway Campus, P.O. Box 524, Aukland Park 2006, Johannesburg, South Africa
2. Directorate of Engineering the Future, School of Science, Engineering and Environment, The University of Salford, Newton Building, Greater Manchester M5 4WT, UK
3. Department of Town Planning, Engineering Networks and Systems, South Ural State University (National Research University), 76, Lenin Prospekt, Chelyabinsk 454080, Russia
4. Nexus by Sweden, Skepparbacken 5, 722 11 Västerås, Sweden

Deadline for manuscript submissions

closed (1 March 2025)

Hydrology

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 5.9

mdpi.com/si/175128

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 5.9

mdpi.com/journal/hydrology

MDPI

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).