

Special Issue

Watershed Evolution and Water Cycle Response Under Global Change

Message from the Guest Editors

This Special Issue aims to synthesize recent progress and stimulate new perspectives on the watershed evolution and water cycle response under global change, offering a forward-looking agenda that connects cutting-edge science with practical pathways for adaptation and resilience. The Special Issue seeks to bring together international contributions that deliver the following:

- Novel insights into the drivers and mechanisms of watershed hydrological evolution.
- Comparative analyses across critical global hotspot regions (monsoon systems, cryospheric basins, and semi-arid agricultural frontiers).
- Future-oriented perspectives that identify knowledge gaps, methodological frontiers, and cross-regional lessons for hydrology under climate change.
- By integrating diverse methodological approaches—remote sensing, isotope hydrochemistry, AI-based analytics, and Earth system science—we aim to go beyond case studies and highlight thematic patterns, transferable methodologies, and new conceptual frameworks.

Guest Editors

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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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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).