Special Issue

Hydrological Signatures of a Changing Landscape: Land Degradation Impacts, Monitoring, and Restoration

Message from the Guest Editors

This Special Issue welcomes manuscripts that address the following themes:

- Advances in Land Degradation Monitoring for Hydrological Applications: Innovations in remote sensing (including LPD assessments), field techniques, and data integration for the quantification of degradation indicators that are pertinent to hydrological processes.
- Quantifying the Hydrological Impacts of Land Degradation: Studies assessing the effects of various forms of degradation (e.g., soil erosion, vegetation changes, reduced LPD) on runoff, infiltration, soil moisture, groundwater, water quality, and hydrological extremes.
- Modelling Land Degradation and Hydrological Interactions: The development and application of coupled models, the incorporation of dynamic degradation data into hydrological simulations, and scenario-based analyses to predict future impacts.
- The Hydrological Effectiveness of Land Restoration and Sustainable Management: Research on the benefits of restoration measures, nature-based solutions, and sustainable land management practices for improving hydrological functions in degraded landscapes, etc.

Guest Editors

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Dr. Deyanira Lobo

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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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indexed within Scopus, ESCI (Web of Science), PubAg, GeoRef, and other databases.

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JCR - Q2 (Water Resources) / CiteScore - Q1 (Oceanography)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.7 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).