# Special Issue

# Lakes as Sensitive Indicators of Hydrology, Environment, and Climate

## Message from the Guest Editors

Lakes are a crucial component of the hydrosphere and a natural laboratory for the study of hydrologic processes. They provide insights into the hydrologic dynamics of the critical zone and constrain biogeochemical and ecological processes that include nutrient cycling and evolution. However, the development of mass spectrometry in the last 70 years laid the foundation for a new research frontier in isotope hydrology, with stable and radioactive isotopes revealing previously unrecognized cogs in hydrologic systems. Further instrumental advances have increased the precision and accuracy of measurements (about x104), unlocking a vast toolkit furnished by natural elements and their isotopes. But these new technological advances have yet to be used to their full potential.

We envision that isotope geochemistry will continue to present an expansive and attractive platform for future research on hydrologic processes that will address long-standing questions and create new streams of knowledge that have direct impacts on our environment, industry, and society.

## Guest Editors

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## Deadline for manuscript submissions

31 October 2025

**Hydrology**

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 5.9

mdpi.com/si/219286

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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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