

Special Issue

Isotope Hydrology: Tracing Water's Journey and Water-Rock Interactions in a Changing World

Message from the Guest Editors

We invite contributions that explore the integration of isotopic techniques with hydrological, ecological, and climatological studies. Topics of interest include, but are not limited to, the following: Isotopic tracing of groundwater recharge, flow pathways, and surface water-groundwater interactions;

Applications in climate change studies (e.g., paleohydrology, precipitation dynamics);

Water resource sustainability and contamination assessment using isotopic tracers;

Advances in analytical techniques (e.g., high-resolution spectrometry, compound-specific isotopes);

Ecohydrological processes and isotope-enabled modeling;

Isotopes in addressing transboundary water management and policy challenges.

This Special Issue seeks to showcase cutting-edge research, case studies, and reviews that bridge scientific discovery with practical solutions. By uniting diverse perspectives, we aim to advance the role of isotope hydrology in promoting resilient water systems and informed decision making.

Guest Editors

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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