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## Tracers and Isotopes Hydrology Innovative Techniques and Significant Challenges

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Deadline for manuscript submissions:

**closed (25 February 2024)**

### Message from the Guest Editors

Dear Colleagues,

Water protection plans, environmental problems, groundwater vulnerability, and engineering geology studies are some of the challenging issues emerging in recent years, to which Tracer and Isotope Hydrology can offer a considerable contribution. The purpose of the Special Issue is to present new techniques employed in hydrology and hydrogeology studies to improve traditional method solutions. In this context, a particular focus will be therefore given to:

- Natural/artificial tracers in recharge studies on different kinds of aquifers/hydro-structures
- Application of new methods of isotope data processing to hydrological/hydrogeological problems;
- Use of tracing techniques to applied hydrogeological/engineering geology investigations
- Use of artificial tracers to investigate actual groundwater flowpaths/aquifer contacts for stratigraphic or tectonic features in complex environmental contexts
- Studies on surface leaking from lakes, rivers, or reservoirs into groundwater bodies
- Isotopic fractionation processes due to the infiltration through the soil, snowmelt, complex orography



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Special Issue



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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.

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**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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