

Special Issue

Application of Isotope Geochemistry in Hydrological Research

Message from the Guest Editors

This Special Issue will present cutting-edge studies that demonstrate how isotopic methods advance understanding of hydrogeological and hydrological processes. Original research is sought on topics including the use of stable and radiogenic isotopes as tracers to determine water origin, recharge rates, flow paths, mixing processes, groundwater–surface water interactions, pollutant sources, etc. Submissions that integrate isotopic data with geochemical modeling and improve the quantification of water–rock interactions, solute transport, and groundwater residence times are particularly welcome. Case studies on aquifer dynamics, river/lake–groundwater relationships, climate-related shifts in water sources, and applications of advanced isotope-based tools for assessing contaminated or complex terrains are also encouraged. Contributions on conceptual and numerical models incorporating isotopic constraints to enhance water resource management are of interest.

Guest Editors

Dr. Tamara Marković

Department of Hydrogeology and Engineering Geology, Croatian Geological Survey, 10000 Zagreb, Croatia

Dr. Petra Žvab Rožič

Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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