Special Issue

Application of Stable Isotopes and Tritium in Hydrology

Message from the Guest Editors

Studies of groundwater recharge and infiltration conditions, the mechanisms of mass transfer, and mixing of waters with different compositions and ages are among the basic problems of geology and hydrogeology. Isotope hydrology techniques have proved to be effective tools for solving many critical hydrological problems and processes. Isotopes of hydrogen (3H, 2H) and oxygen (18O) are perfect candidates for groundwater tracers because they are constituent elements of the water molecule. Knowledge on the isotopic composition (δ18O, δ2H and 3H activity) in surface and groundwater has found wide applications in hydrology, such as determination of mean residence time of water in aquifers, the determination of recharge areas, mixing of surface and groundwater, the interconnections between aquifers, and the origin of groundwater. Contributions related to other isotopes (e.g., 15N, 34S, and many others), conceptual model development, water resources management on a local to regional scale, as well as papers on water isotopes applied in palaeoclimatic and palaeoenvironmental studies are highly welcome.

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Deadline for manuscript submissions

closed (31 July 2020)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/31797

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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

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