Special Issue

Isotope Tracers in Watershed Hydrology

Message from the Guest Editors

Applications of isotope tracers into hydrological investigations stem from their ability to trace water sources and hydrological processes, including surface/groundwater interaction, water residence times, flow pathways, evaporation fluxes, transit time, and solute processes on the spatial and temporal scales. Understanding the hydrological processes of water sources is very important because these sustainable sources of freshwater for a growing population of 7 billion people are one of the grand challenges of the 21st century. Stable water isotopes (δ18O, δ2H) are most commonly employed as tracers as they are incorporated within the water molecule (H218O, 1H2H16O) and because they undergo measurable and systematic fractionations as they move between phases in the water cycle. The study of hydrological processes that control water quality has also been an important avenue of environmental investigation. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/IsotopeTracers_WatershedHydrology

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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

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