Special Issue

Environmental Isotope Tracers in Understanding Catchment Hydrological Processes

Message from the Guest Editors

Environmental isotope tracers have been successfully applied in solving a number of hydrological problems in both surface water and groundwater resources, and other environmental issues. Environmental isotope tracers offer a unique and supplementary information on the origin and movement of water in the subsurface and allow a quantitative evaluation of mixing and other physical processes, such as evaporation, surface water–groundwater interaction and isotopic exchanges in geothermal systems, water–rock interactions, dating of water, and tracing pollution sources. This Special Issue aims to highlight advances made in tracing hydrological processes using various environmental isotope tracer methods and approaches applied in catchment water resource management for sustainable development at various scales.

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Hydrology is the study of the waters of the Earth. *Hydrology* has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems.
The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

Editor-in-Chief

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