Special Issue

Stable Isotopes in Hydrological Processes

Message from the Guest Editor

This Special Issue covers the “Stable Isotopes in Hydrological Processes”. Isotope tracing is currently widely used to study water balance and streamflow formation occurring both in large river and small tributary basins. Datasets of isotope tracers within regional and global river networks allow the opportunity to access the spatiotemporal dynamics of runoff processes, evaporative enrichment, and depletion that occurs in different climatic zones. Most recently, isotope-capable predictive hydrological models have been useful for the attribution of climate change and water and land management. Papers for this Special Issue may address novel aspects of stable isotopes used in the study of a wide range of hydrological processes: water cycle variability at various spatial and temporal scales, assess the effect of evaporation and the rate of water exchange, genetic relationship of surface waters with precipitation and groundwater, hydrological models, etc.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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