Special Issue

Isotope Hydrological Tools to Understand Groundwater–Surfacewater Interactions

Message from the Guest Editor

This Special Issues of Geosciences aims to provide valuable insight into isotopes and environmental tracer tools, techniques and applications to study catchment scale hydrology by gathering high-quality original research articles, reviews and technical notes. Due to continuous deterioration of water quality in surface and groundwater storages and increase in different type of pollution problems, there are clear needs to understand how human activities and different catchment properties create a continuum and ends up to specific problems in water quality or amount of water at catchment scale. Isotopes and other environmental tracers offer valuable and environmentally friendly tools to identify water origin, water flow processes and mixing of different water fractions not only at catchments scale but also globally. These tools are quite much used for decades but since more recently the analysis techniques have been developed resulting that the smaller concentrations can be detectable. Groundwater-surface water interactions have dynamic characteristics (producing seasonal and annual fluctuation), which is still quite poorly understood.

Guest Editor

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

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