Special Issue

Hydrochemistry and Isotope Hydrology for Groundwater Sustainability

Message from the Guest Editors

The groundwater cycle and chemistry is changing significantly due to human activities and climate change, and this has led to many problems, which affect the sustainable development of the environment, economy and society. To address the new challenges, it is important to understand the mechanisms of the changes in groundwater balance and chemistry, as well as predict their evolutionary trends, to develop targeted regulatory measures. Environmental isotopes and hydrochemistry in hydrogeology can help to (i) quantify groundwater recharge, flow and discharge; (ii) trace chemical reactions, including water–rock reactions and the degradation of pollutants; (iii) identify source of solutes and pollutants; (iv) characterize the mechanisms and flux of element/nutrient cycling; and (v) identify mixing processes; thus, this study could serve as a powerful research tool. The purpose of this Special Issue is to publish original studies, as well as review articles, addressing recent advances in the above-mentioned areas. We therefore invite you to submit your latest research findings in this field.

Guest Editors

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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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