Special Issue

Groundwater Environment Evolution and Early Risk-Warning

Message from the Guest Editors

Groundwater quantity, quality, and ecology are key components of a groundwater environment. The evolution of a groundwater environment results from the interaction and co-evolution of hydrological processes, groundwater quality, and the groundwater ecology. It involves multi-interface, variable, and process coupling, and is dually influenced by climate change and human activities. Deterioration of a groundwater environment can easily trigger a series of ecological and environmental crises. However, under changing conditions, the driving mechanisms of groundwater environment evolution, the coupling processes across multiple interfaces, and the trends in risk evolution remain incompletely understood. This Special Issue aims to reveal the groundwater-driven soil carbon, nitrogen, and phosphorus cycling and salt transport processes, water quality and ecological effects of multi-interface processes, and transport and transformation processes of highly toxic pollutants such as organic compounds and heavy metals in complex media under changing environmental conditions by integrating field observations, molecular-scale analyses, and reactive transport modeling.

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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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