Special Issue

Innovative Approaches in Groundwater Pollution Source Identification and Quality Monitoring: Challenges and Future Directions

Message from the Guest Editor

Identifying the sources and pathways of groundwater pollution is a prerequisite for groundwater pollution remediation and prevention. Due to the concealment and complexity of groundwater burial conditions, this aspect faces formidable challenges. This Special Issue focuses on new technologies for exploring groundwater pollution sources and pathways, with the aim of promoting these technologies and advancements. There are various methods for exploring groundwater pollution sources and pathways, including field exploration methods such as drilling, geophysical exploration, and geochemical methods, as well as numerical simulation methods combining mathematical, chemical, and biogeochemical fields and multiple fields. In recent years, machine learning methods based on big data have shown great vitality. This Special Issue welcomes various case studies and theoretical research results on exploring groundwater pollution sources and pathways.

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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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