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Injection-Induced Fluid Flows and Solute/Heat Transport Behavior in a Subsurface Environment

Guest Editor:

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Message from the Guest Editor

As the water shortage spreads around the world, artificial recharge to actively cope with the shortage of groundwater and the installation of underground infiltration facilities, together with rainwater harvesting, are leading to an induced flow of groundwater. In addition, the use of groundwater as a source or sink of thermal energy for space heating or cooling, the circulation of fluid for geothermal power generation, and the injection of fluids for the development of shale gas have been increasing over the past decade, creating an induced groundwater flow. The transport of contaminants and heat is also expanding along these induced flows. This Special Issue invites studies on groundwater flow and the associated solutes, contaminants, and heat transport that are different from the natural conditions caused by the above-mentioned artificial factors. The characterization of the flow and transport system by use of groundwater age dating, isotopic analysis, and microbial community survey will be important topics to be included. Groundwater flow and solute transport that are affected by climate change and stream interaction are also welcome.



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Special Issue



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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.

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