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Groundwater Flow and Transport Modeling in Aquifer Systems

Guest Editor:

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Deadline for manuscript submissions:
10 November 2024

Message from the Guest Editor

The importance of groundwater resources for providing drinking water cannot be underestimated—25–50% of drinking water comes from this increasingly threatened resource. Reports of groundwater contamination seem to be growing exponentially all over the world. The national Superfund Cleanup debt continues to increase in the USA, China, and many other countries. It has been estimated to be trillions of dollars. New approaches to modeling flow and contaminant transport in soils and aquifers are desperately needed for the subsurface remediation, characterization, and protection of our water resources.

This Special Issue of *Water* focuses on novel modeling studies in subsurface hydrology and hydrogeology as well as on field and laboratory experimental studies and their modeling. We encourage submissions providing new insights into the characterization of porous/fractured media as well as the transport of water, heat, contaminants, and/or nutrients through such media in their saturated and unsaturated (vadose) zones. We also welcome papers with a more traditional focus on applications of the established theories.

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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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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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