



## Groundwater Flow and Transport Models

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Deadline for manuscript  
submissions:

**closed (30 April 2022)**

### Message from the Guest Editors

Groundwater is a valuable resource for water supply, irrigation, industry, but also for the environment as a whole. It is endangered by overexploitation, pollution, and climate change. The need to analyze the effect of anthropogenic and climatic forcing requires the development of accurate and reliable numerical models, with a reasonably fast execution speed.

This Special Issue focuses on recent advances and possible developments in modeling of flow and transport in groundwater. We invite researchers to present contributions dealing with the most different approaches for groundwater modeling possibly carried out with the use of parallel computing, new numerical techniques, surrogate models, and neural networks.

Potential topics include but are not limited to:

- Saturated/unsaturated flow;
- Seawater intrusion;
- Identification of flow and transport parameters through inverse approaches;
- Estimation of the contaminant source location and its release in time;
- Modeling remediation actions of aquifers contaminated by point sources, by diffuse spreading, even by NAPL contaminants;
- Validation of groundwater simulation models through experimental data.



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## Editor-in-Chief

### Dr. Jean-Luc PROBST

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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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