

Special Issue

Groundwater Flow and Contaminant Transport Modeling

Message from the Guest Editor

Understanding groundwater flow and the transport of constituents including contaminants is critical in addressing water quantity and quality challenges that impact public health and sustainable water resource management. This Special Issue aims to gather innovative research that advances the modeling efforts in this vital area. We welcome submissions addressing, but not limited to, the following topics:

- Development and validation of new groundwater flow and transport models;
- Numerical and analytical methods for groundwater modeling;
- Contaminant transport mechanisms in subsurface environments;
- Application of machine learning and AI in groundwater modeling;
- Impacts of climate and environmental changes on groundwater resources;
- Integration of surface water, land surface, and groundwater models;
- Hydrobiogeochemical interactions affecting contaminant and organic matter mobility;
- Managed aquifer recharge and its implications for groundwater quality;
- Policy and management strategies for groundwater protection.[...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/C7QW838LPY

Guest Editor

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Deadline for manuscript submissions

closed (25 October 2025)



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About the Journal

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

Dr. Jean-Luc PROBST

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