

Special Issue

Groundwater Dynamics and Modeling

Message from the Guest Editors

The Special Issue, titled “Groundwater Dynamics and Modeling”, focuses on recent advances and progress in groundwater studies. This Special Issue’s scope is broad yet targeted, covering interdisciplinary aspects of hydrogeology and modeling. Key areas include the following:

- Development of novel simulation techniques for local and regional scale models;
- Numerical modeling of complex regional aquifer systems;
- Interaction between groundwater and geological formations;
- Contaminant transport, fate, and remediation strategies;
- Effects of climate change and extreme weather on recharge and water resources;
- Vulnerability of different types of environments/catchments to drought;
- Sustainable management with adaptive strategies for groundwater depletion;
- Solving regional mine drainage problems;
- Numerical modeling of intake operation in complex hydrostructural conditions;
- Geospatial technologies, remote sensing and satellite-based monitoring in modeling approaches;
- Groundwater–surface water interactions;
- Utilizing multi-scale modeling of coupled systems;
- Using AI in data processing and numerical model development;
- Solving calibration and uncertainty reduction problems.

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Deadline for manuscript submissions



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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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