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Recent Advances in Subsurface Flow and Solute Transport Modelling

Guest Editors:

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Deadline for manuscript submissions:
30 January 2025

Message from the Guest Editors

Dear Colleagues,

To better understand subsurface flow processes and solute transport to support decision-makers in water resource and nutrient management, this special issue invites papers on the following topics to contribute:

- Using physically based groundwater models to simulate subsurface flow,
- Applying physically based subsurface solute transport models to simulate solute transport,
- Using statistical models to study the subsurface flow and solute transport,
- Develoing or using machine learning methods to support decision-makers in water resource management,
- Using remote sensing data to quantify groundwater recharge or changes in groundwater storage,
- Utilising methods/technologies to support water allocation and limit setting,
- Employing chemical/iostope tracers to study water ages, transit time, age distribution etc.,
- Implementing innovative technologies to support model calibration and uncertainty analysis.

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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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