

## Special Issue

# Advances in Surface Water and Groundwater Simulation in River Basin

### Message from the Guest Editors

Groundwater and surface water, as two important aspects of the water cycle, are often viewed in an artificially segmented way in scientific research, resulting in insufficient interactions between them. Precipitation infiltration, groundwater discharge to streams, and significant changes in surface water or groundwater driven by nature have led to complex transformations of surface water and groundwater in the basin.

The researchers expect to find new results related to changes in surface water and groundwater regimes in the basin and driving mechanisms, the processes of surface water and groundwater interaction under climate change and the new development of surface water and groundwater research brought by new numerical simulation and machine learning algorithms. This Special Issue will deal with the "Advances in Surface Water and Groundwater Simulation in River Basin". Authors are welcome to submit articles and reviews on the most important aspects of the integrated water systems, including the coupling mechanism and system behavior under the changing environment, observation systems, and simulation techniques on the surface water and groundwater.

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### Guest Editors

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### Deadline for manuscript submissions

closed (10 October 2025)



## Water

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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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### Editor-in-Chief

Dr. Jean-Luc PROBST

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