

Special Issue

Modelling of Groundwater and Surface Water Interactions

Message from the Guest Editor

Quantifying baseflow is crucial for a sustainable management of coupled ground- and surface water resources and linked ecosystems. It is commonly estimated using tracers (i.e., heat or chemical), automated statistical methods such as recursive filters, physical-based numerical separation models, or a combination of the three. Recently, integrated surface–subsurface numerical models have been refined to account for small-scale spatial and temporal patterns of groundwater and surface water exchange across watersheds of various land use and climatic settings. However, the interplay between hydrologic dynamics and geochemical processes is still not fully understood. This Special Issue welcomes interdisciplinary research that addresses the linkages between hydrology and geochemistry at nested scales and specifically accounts for small-scale spatiotemporal variability of baseflow.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2022)



Water

an Open Access Journal
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Impact Factor 3.0
CiteScore 6.0



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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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