water

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Integrated Research on Surface–Ground Water Interactions

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

The disciplines of hydrology and hydrogeology are commonly treated separately with research published in separate journals. Critically, however, there are dynamic interactions at the surface-ground water interface and interactions are complex, both spatially and temporally. Increasingly, and particularly in drier parts of the world, the impacts on surface waters affect groundwater resources, and vice versa, and in ways that are spatially and temporally hard to predict. This spatial and temporal variability of surface water-groundwater interactions requires integration of multiple lines of evidence to obtain an accurate, quantitative description of the water dynamics, which is required if we are to develop tools to predict potential timings and magnitudes of changes under different climate, anthropogenic, and natural impacts and provide science-based decisions for water management and distribution.

Contributions are invited that combine multiple strands of evidence and integrate research across traditionally disparate disciplines. That is, research that looks beyond the integration of hydrology, hydrogeology, geophysics, geochemistry, isotopes, and modelling to consider social responses, political imperatives, and pragmatic solutions to this complex issue. How do decisions made outside science influence a system's response, and how do we monitor, measure, and incorporate science into policy? Papers are thus invited that provide scientific rigor to management decisions when dealing with surface-ground water interactions.

Dr. Richard Cresswell
Guest Editor

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Special Issue

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Editor-in-Chief

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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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