Special Issue

Advances in the Study and Understanding of Groundwater Discharge to Surface Water

Message from the Guest Editors

Groundwater discharge is often vitally important for maintaining or restoring valuable ecosystems in surface water or at the groundwater–surface-water ecotone. Detecting and quantifying groundwater discharge is challenging, because the rates of flow can be very small, exchange is commonly highly heterogeneous both in space and time, and surface-water hydrodynamics can both influence the exchange and hinder measurements. Fortunately, a wide range of methods have been developed during the last decades, advancing our understanding of how to identify groundwater discharge to surface water, including a better use of seepage meters, application of tracers such as heat or isotopes, and improved groundwater-modelling capabilities. This progress has led to a coalescence in understanding the complex mix of hydrological, biological, and chemical processes that occur at the groundwater–surface-water interface, along with the relevant effects on society. [...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/groundwater_discharge

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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.

Editor-in-Chief

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