



water

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Regional Groundwater Flow Concept and Its Potential for Interdisciplinary Application

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Message from the Guest Editors

The 2022 World Water Day slogan is “Groundwater: Making the invisible visible”, which can help visualise and understand the pattern of groundwater flow. There is a great need for a systematic basin-scale approach to reveal the regional relationships in groundwater. These can open new possibilities for scientists and professionals to understand the frontiers of hydrogeology with different disciplines. The main challenges are connected to climate change and for adjustment of flow systems to modified climate and the buffering capacity of the flow. Over the quantitative aspects, the qualitatives induced by pollution, especially emerging contaminants, are also challenging. Groundwater flow and quality will influence groundwater-dependent ecosystems and the future water supply. Groundwater flow patterns are also significant in exploring geothermal energy and controlling hydrocarbon migration. We await innovative papers on the topic, considering theoretical and practical aspects, regional studies and generalised conclusions.

[...]

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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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