Special Issue

Groundwater: The Processes and Global Significance of Aquifers

Message from the Guest Editor

Aquifer exploitation has played an important role in the urban, agricultural and industrial water supply, especially in the last half century. Few economic resources have been invested into aquifer management, giving rise to aquifer degradation that has been affected qualitatively and quantitatively. Groundwater management is one of the greatest challenges facing society today. Aquifer exploitation without management programs leads to the depletion of present-day storages, which are necessary for providing relief in emergency situations. This Special Issue brings attention to the discussion of new issues and the development of innovative monitoring systems and socio-hydrogeological models. Research articles are welcome that include, but are not limited to, the following topics: innovative remote sensing and in situ monitoring systems to determine water availability and quality of aquifers; hydrogeology modelling at several scales; human interactions with the groundwater cycle; resilience assessment and risk management in socio-hydrogeologic systems; occurrence, fate and transport of contaminants in the aquifers; and modelling of contaminant clean-up strategies.

Guest Editor

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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

Dr. Jean-Luc PROBST
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