Special Issue

Groundwater Management in a Changing World: Challenges and Endeavors

Message from the Guest Editor

Nowadays, predicting how climate change could qualitatively and quantitatively impact groundwater systems is difficult not only because of uncertainties in the predictions of future climate but also due to the complex combinations of processes that affect groundwater recharge, discharge and quality. Therefore, a better understanding of how climate change could affect groundwater systems will require long-term monitoring of the interaction between climate and groundwater recharge, storage and discharge, as well as the development and testing of models that more completely represent both the long- and shortterm connections between climate and groundwater, both in terms of water balances and water quality. In this context, traditional water resources planning models must be abandoned and new paradigms must be adopted for improving integrated water resources management: Reused water for irrigation and groundwater recharge, to prevent aquifer's depletion and seawater intrusion.

Guest Editor

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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

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