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Assessment and Monitoring of Groundwater Quality

Guest Editor:

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Deadline for manuscript submissions:
closed (20 November 2023)

Message from the Guest Editor

Groundwater is a very important water resource which is currently facing many challenges in terms of pollution caused by natural and anthropogenic sources and faster depletion due to over-dependence. There is a great necessity to explore innovative and effective methods which help in the assessment and monitoring of groundwater quality. We encourage authors to use innovative methods and modeling techniques in the following areas to help monitor and assess the groundwater quality for sustainable use.

- Factors affecting the groundwater quality;
- Interfactions of surface water and groundwater and their role in groundwater quality monitoring;
- Applications of GIS and remote sensing in groundwater quality monitoring;
- Climate change and extreme weather events;
- Groundwater flow and pollutant transport modeling;
- The role of machine learning and artificial intelligence in groundwater quality monitoring;
- Optimal monitoring network design for monitoring groundwater quality;
- Emerging contaminants and groundwater quality;
- Saltwater intrusion.

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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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