

Special Issue

Recent Advances in Groundwater Resources Management for Sustainability

Message from the Guest Editors

Groundwater resource management plays an important role in water resource management, agricultural irrigation, ecological environment, and the socio-economic development of a region. Groundwater processes are influenced by complex weather and nonlinear infiltration mechanisms, which are difficult to model; thus, reliable groundwater modelling and forecasting remain a challenge. Recently, new technologies and methods have been employed in groundwater management, such as satellite remote sensing technology, big data mining technology, artificial intelligence, etc., to improve the quality of forecasting and simulation. In addition, the impact of climate change on groundwater in recent years is highly concerning. Advanced modelling techniques, including physical-based modelling and machine-learning-based modelling, may provide the necessary support for authorities, decision makers, and ordinary stakeholders. For this SI, we invite contributions of original reviews and research focused on developing and improving groundwater modelling and investigating their applications in water resource management as well as the impacts of the changing climate on groundwater.

Guest Editors

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Deadline for manuscript submissions

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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