Special Issue

Enhancing Sustainable Hydrological and Geochemical Modeling for Intelligent Water Resource Management

Message from the Guest Editor

Over the last few decades, we have observed a significant increase in the application of information technologies in water science and the water industry. Remote sensing monitoring techniques and the progressive digitalization of water recharge, extraction, and supply objects and systems, especially in industrialized countries, provide ever more information and data to be processed, integrated, and developed. This trend goes hand in hand with the development of various types of modeling and simulation techniques. In the socially sensitive fields of hydrology, hydrogeology, and water resources management, it is clear that predictive modeling develops from real social needs and threats related to the decline in good quality drinking water resources and climate change. Predictive hydrological models, including the so-called “digital twins,” and geochemical models are important because they allow simulating and predicting the effects of climatic phenomena or trends of geogenic or anthropogenic origin on water quality and resources. This Special Issue will present developments in hydrogeological and geochemical models. All original research within the scope is welcome.

Guest Editor

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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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