Special Issue

Advances in Hydrogeological Investigations: Field Monitoring, GIS, AI, Remote Sensing, Geophysical Techniques, and Hydrochemical Analysis

Message from the Guest Editors

The growing demand for sustainable groundwater management has driven significant advancements in hydrogeological investigations, integrating cutting-edge technologies such as Geographic Information Systems (GIS), remote sensing (RS), artificial intelligence (AI), geophysical techniques, and hydrochemical analysis. These interdisciplinary approaches have revolutionized how researchers assess, monitor, and model groundwater systems, enabling a more comprehensive understanding of aquifers, recharge zones, contamination sources, and groundwater–surface water interactions.

This Special Issue aims to bring together innovative research and state-of-the-art methodologies that leverage these advanced techniques to improve groundwater exploration, monitoring, and management. We encourage submissions that demonstrate novel applications, case studies, and cutting-edge developments in hydrogeological investigations.

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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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