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.

Guest Editors

Dr. Ismael Ibraheem

Institute of Geophysics and Meteorology, University of Cologne, Pohligstrasse 3, 50969 Cologne, Germany

Prof. Dr. Abdelazim Negm

Water and Water structures Engineering Dept, Faculty of Engineering, Zagazig University, Zagazig 44519, Egypt

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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