# **Special Issue**

# Hydrodynamic Characterization of Aquifers

## Message from the Guest Editors

Aguifer characterization is essential for many groundwater-related research and applications, such as groundwater resource management, groundwater remediation, and the utilization of shallow geothermal energy. Over recent decades, new techniques for both the numerical modeling and field investigation of hydrogeological parameters have progressed due to increased computational power and modern sensing technology. These techniques have enhanced the precision of aquifer characterization, providing more comprehensive hydrogeological property data and a better understanding of the hydrodynamic behaviors of groundwater systems. This Special Issue aims to present advanced methods and techniques applied to hydrodynamic aquifer characterization. Developments in analytical solutions, numerical modeling, laboratory experiments, field investigations, and machine learningbased applications are the main components of this Special Issue. Research on these subjects helps to improve the understanding of hydrodynamic aquifer characteristics and thus the accuracy of calculations of groundwater flow and transport-related behaviors.

#### **Guest Editors**

Prof. Dr. Rui Hu

Dr. Quan Liu

Dr. Reza Taherdangkoo

## Deadline for manuscript submissions

closed (20 December 2024)



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mdpi.com/si/209032

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

mdpi.com/journal/ water





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#### 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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