Special Issue

Advances in Hydrogeophysics for Structures and Processes Characterization in the Critical Zone: From Laboratory to Field Scale

Message from the Guest Editors

With the rapid growth of the world's population, having enough potable water for everyone presents a significant challenge for society. Water resources are in a so-called critical zone, which must be carefully investigated. As an alternative to intrusive methods such as drilling, pumping, and sampling, geophysics is gaining ground as a method of choice for hydrogeologists as it provides subsurface data with an unprecedentedly high spatial and temporal resolution in a non-invasive manner. Geophysical methods are allowing us to investigate complex subsurface environments and to non-intrusively monitor their dynamics, from fluid flow to transport and (bio-)geochemical reactions. Over the last two decades, the field of hydrogeophysics has developed rapidly, shifting from a paradigm of static imaging of structures to dynamic 4D monitoring of subsurface processes. However, hydrogeophysical methods provide indirect assessments of these processes. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Hydrogeophysics_Scale

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Message from the Editor-in-Chief

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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