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

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Message from the Guest Editors

Dear Colleagues,

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. [...]

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Special Issue



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