



Soil Hydraulic Properties Characterization for Improving Water Availability

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Message from the Guest Editors

Due to the ongoing threat of climate change, water availability is becoming seriously threatened in arid and semi-arid regions, and improved understanding of the vadose zone hydrology and its implications on numerous soil functions will become a challenging issue in the coming years.

In this Special Issue, we focus on experimental and theoretical challenges and state-of-the-art methods to characterize, measure, and model soil hydraulic properties. To fulfill the scope of Applied Sciences, studies should aim to demonstrate how soil hydraulic properties are affected by soil management and external inputs (fertilization, pollutants, low quality irrigation water, etc.) and how they affect the hydrological processes (runoff, erosion, groundwater recharge, etc.), with a specific focus on water availability in the scenario of climate change.

Keywords: soil hydraulic properties; inverse modeling; PTF; soil physical quality; plant water availability; water use efficiency; vadose zone hydrology; urban soils; water saving





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Message from the Editor-in-Chief

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