Special Issue

Study on Soil Hydrological Process, Mechanisms and Effects

Message from the Guest Editors

The soil hydrological process plays a crucial role in linking different spheres of the Earth's critical zone. The soil hydrological process can be categorized into two aspects: the static aspect, represented by soil water content and potential; and the dynamic aspect, represented by soil water movement. Further research is needed to better understand the mechanisms that control soil water content across different spatial scales, the occurrence thresholds and mechanisms of the lateral subsurface flow and preferential flow, and to develop improved methods and models for monitoring subsurface flow processes. Additionally, the effects of the soil hydrological process on vegetation growth, greenhouse gas emissions, soil erosion, nutrient loss, water pollution and other eco-environmental issues have become research hotspots. This Special Issue aims to gather high-quality papers emphasizing different aspects and findings related to the soil hydrological process, mechanisms and effects, with a particular focus on the areas mentioned above. We are pleased to invite you to submit your most recent research contributions to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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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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