

Special Issue

Coupling Eco-Hydrology with Water Sustainability: Concepts and Applications

Message from the Guest Editors

This Special Issue was inspired by the increasing frequency and intensity of major hydrological extremes and the resulting water environment changes across our planet. Terrestrial and aquatic ecosystems are under increasing stress in the background of global change and ever-growing anthropogenic impacts in many regions. The alteration of eco-hydrology processes leads to a changed water cycle and solute transportation within the natural and artificial ecosystems, leading to a reallocation of water resources, threatening sustainability. The Special Issue stems from the need to stimulate and collect the most recent results in this field with a specific focus on bringing together modelling applications and experimental experiences. The emphasis has necessarily been on marshalling the information that can be summarized in the following topics: soil moisture dynamics, soil–plant interaction, vegetation modelling, and the effects of climate change on ecosystems. Understanding the basic processes of ecohydrology will hopefully lead to the development of tools for a more sustainable use of water resources and the management of natural and artificial ecosystems.

Guest Editors

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Deadline for manuscript submissions

closed (20 September 2022)



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