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Plant-Water Interactions under a Changing Environment

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Deadline for manuscript submissions:
closed (20 December 2022)

Message from the Guest Editors

The complex plant-water interaction, from leaves to the biosphere, with its feedback to the climate system, is one of the most uncertain parts of the water cycle. It involves interactions of soil, plants, land cover, and land use, with hydrological processes, such as evapotranspiration, infiltration, and runoff. There are still many unsolved problems in the observation and simulation of these processes (e.g., evapotranspiration partitioning; effects of soil structure on hydrological processes; identifying runoff channels). Understanding these processes can greatly improve our knowledge of and ability to adapt to changes in water cycles in changing environments, especially in arid and alpine regions.

In this Special Issue, we welcome the submission of studies that investigate both facts and mechanisms related to plant-water processes, from leaves to the biosphere's effects on hydrological processes, including soil-water dynamics, evapotranspiration, and runoff [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/plant_water_interactions

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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.

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