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Nonstructural Carbohydrates, Water Status, and Hydraulic Dynamics in Plants

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Abiotic (water scarcity, heat) and/or biotic factors (pathogens, interspecific competition) may severely affect plants' water status, hydraulic efficiency, as well as nonstructural carbohydrate synthesis and storage. Although many of the consequences of plant decline are readily apparent in several biomes, our current knowledge of multiple physiological mechanisms and their interactions/feedbacks triggering species survival or mortality is still limited.

This Special Issue aims at collecting original studies and reviews dealing with the effects of stressors (abiotic, biotic or their combination) on plant water status, hydraulics, and nonstructural carbohydrate content. Specific focus on physiological responses enabling plants to cope with challenging environments and promoting their adaptation to stressors is encouraged. Studies conducted on crops, trees, and herbaceous species and under both field or controlled conditions are welcome, [...]

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