



water

an Open Access Journal by MDPI



Nonstructural Carbohydrates, Water Status, and Hydraulic Dynamics in Plants

Guest Editor:

Dr. Tadeja Savi

Institute of Botany, Department of Integrative Biology and Biodiversity Research, University of Natural Resources and Life Sciences, Vienna, Austria

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:

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



[mdpi.com/si/52033](https://www.mdpi.com/si/52033)

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

ECOLAB, Centre National de la
Recherche Scientifique (CNRS),
University of Toulouse, campus
ENSAT, Auzeville Tolosane,
France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)