



*water*



an Open Access Journal by MDPI

## Crop Water Stress and Deficit Irrigation

Guest Editor:

**Dr. Alejandro Galindo**

Department of Agroforestry  
Science, University of Seville,  
Ctra. Utrera Km 1, 41013 Seville,  
Spain

Deadline for manuscript  
submissions:

**closed (25 January 2022)**

### Message from the Guest Editor

Freshwater is the most essential resource for the survival of all organisms. Only 2.5% of the planet's stock is freshwater, and most is stored in glaciers and deep groundwater, only a small amount being easily available. All of this, combined with increasing anthropogenic pressure, is turning water scarcity into a widespread concern. Further, climate change is expected to disrupt hydrological regimes and water availability.

In this sense, agriculture is the largest freshwater user. Additionally, its continued growth is increasing the severity of water scarcity and the frequency of imbalance situations between water supply and demand occurring in agrosystems. These facts highlight the need to maximize crop water productivity. Moreover, among the tools that growers can use to achieve this goal, there should be more precise irrigation strategies and scheduling procedures that will protect water resources and their integrity for their future use.

Therefore, the aim of this Special Issue is to gather innovative approaches in management or modeling deficit irrigation strategies, as well as research on tools and mechanisms involved in the response of crops to water stress.



[mdpi.com/si/32279](https://mdpi.com/si/32279)

**Special** Issue



*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Dr. Jean-Luc PROBST**

Laboratory of Functional Ecology and Environment, 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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/X@Water_MDPI)