



## Crop Response to Water Deficit Stress

Guest Editor:

### **Prof. Dr. Shiwen Wang**

1. Institute of Soil and Water Conservation, Chinese Academy of Sciences and Ministry of Water Resources, Yangling, Xianyang 712100, China
2. State Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau, Institute of Soil and Water Conservation, Northwest A&F University, Yangling, Xianyang 712100, China

Deadline for manuscript submissions:

**30 October 2024**

### **Message from the Guest Editor**

Water deficiency imposes drought stress and can cause sizeable reductions in crop yield and, what is more, it is one of the greatest limitations that modern-day crop production schemes must manage to maximize crop yield. Moreover, with the impacts of global warming, there is a threat that water resources will be exacerbated in the near future. Water stress triggers various plant responses that affect both cellular and whole plant growth and development. Therefore, understanding how crops respond to water deficiency can facilitate the cultivation of drought-adapted varieties that enhance crop productivity in the face of climate change. This Special Issue addresses interdisciplinary studies embracing agriculture with disciplines that range from basic biology, which highlights the response of crops to water stress, to cropping systems that integrate investigations of soil, crops, and their environment. We welcome all types of articles, such as original research, opinions, and reviews. We also welcome the latest research results on morphology, physiology, and molecular studies, as well as strategies for improving crop water use efficiency and productivity under field conditions.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## 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), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

## Contact Us

---

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

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

[mdpi.com/journal/agriculture](http://mdpi.com/journal/agriculture)  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)  
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)