



*crops*

an Open Access Journal by MDPI

## Effect of Drought Stress on Nutrient Management in Crop Plant Production

Guest Editor:

**Dr. Małgorzata Szostek**

Department of Soil Science,  
Environmental Chemistry and  
Hydrology, College of Natural  
Sciences, University of Rzeszów,  
35-601 Rzeszów, Poland

Deadline for manuscript  
submissions:

**closed (25 March 2023)**

### Message from the Guest Editor

Abiotic stresses are significant constraints on crop production and food security worldwide. In the wake of climate change, drought and heat stresses have become the most critical limiting factors for crop productivity and food security. Therefore, understanding the physiological and ecological crop plant reactions and responses related to these stresses is important for better crop production management.

This Special Issue of *Crops* aims to collect the current knowledge on the transformation and digestibility of nutrients contained in the soil and brought in with organic and mineral fertilizers in drought conditions. As a result of drought, many unfavorable processes occur in the soil, which may lead to its salinity and, consequently, osmotic stress, which causes crop yield limitations. Under such conditions, the availability of nutrients is limited, which reduces the yields obtained while worsening their quality. Therefore, understanding the mechanisms influencing the absorption of nutrients and their availability for plants is crucial to ensure the continuity of agricultural production and food security, which is extremely important in the era of advancing climate change.



[mdpi.com/si/109133](https://mdpi.com/si/109133)

# Special Issue



# *crops*

an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Kenneth J. Moore**

Department of Agronomy, Iowa  
State University, Ames, IA 50011,  
USA

## Message from the Editor-in-Chief

*Crops* (ISSN 2673-7655) is an international, peer-reviewed, open access journal. It publishes original articles, critical reviews, and short communications in every aspect of crop science. The journal invites contributions concerning production, improvement and utilization of all plants that are grown as crops including grains, oilseeds, forages, vegetables, fruits, nuts, and those grown for industrial uses. Our aim is to publish timely experimental and theoretical research results in a rapid and readily accessible manner. Every published article is made immediately available worldwide with free and unlimited access to everyone. If you want your work to reach a global audience of crop scientists, we invite you to submit a paper *Crops*, the international journal of crop science.

## Author Benefits

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

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 30.5 days after submission; acceptance to publication is undertaken in 12.9 days (median values for papers published in this journal in the second half of 2023).

**Recognition of Reviewers:** APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.

## Contact Us

---

*Crops* 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/crops](http://mdpi.com/journal/crops)  
[crops@mdpi.com](mailto:crops@mdpi.com)  
[X@Crops\\_MDPI](https://twitter.com/Crops_MDPI)