

## Special Issue

# Foliar Fertilization of Crop Plants: Current State of Knowledge and Perspectives

### Message from the Guest Editor

Dear colleagues, Foliar fertilization sounds controversial as it means applying nutrients to an organ which was not designed for nutrient uptake rather than limiting water losses and penetration of unwanted substances and organisms. Nevertheless, it may help to overcome temporary or permanent constraints in the supply of certain nutrients to crops, especially so for microelements which often are tightly bound in a not available form. It may help as well to overcome shortages when the root activity is impeded by e.g. cold soils, drought or unbalanced nutrient supply/salinity. It is imperative to search for nutrient compounds and fertilizer preparations which optimize the amount of nutrient made available via the leaves or fruits, avoid damages like scorching when applied to the foliage, do not negatively interfere with the water balance of the plants, and help to translocate the nutrients to the organs which are truly in need for it. There is as a need to optimize both timing as well as technologies for foliar application of nutrients, tailoring the application to get the highest benefit from the foliar fertilizers.

### Guest Editor

Prof. Dr. Heiner E Goldbach

Institute of Crop Science and Resource Conservation (INRES),  
University of Bonn, Germany and HGoTECH GmbH, 53115 Bonn,  
Germany

### Deadline for manuscript submissions

closed (30 November 2019)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/25191](https://mdpi.com/si/25191)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

---

### 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, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)