

## Special Issue

# Precision Nutrient Management for Climate-Smart Agriculture

### Message from the Guest Editors

Nutrient management needs to be significantly improved in order to address the triple challenge of global food security, environmental pollution, and climate change. Precision nutrient management is a promising strategy for synchronizing the soil nutrient supply with crop nutrient demand, both in terms of the time and rate of nutrient application. However, the success of precision nutrient management requires the development of rapid, non-destructive, eco-friendly, and economically viable strategies for the in-season site-specific monitoring and diagnosis of crop nutrient status. With the advances of sensor technologies, intelligent agriculture has allowed farmers to improve their crop management and productivity.

### Guest Editors

Dr. Qiang Cao

National Engineering and Technology Center for Information Agriculture, Department of Smart Agriculture, Nanjing Agricultural University, Nanjing 210095, China

Dr. Syed Tahir Ata-Ul-Karim

Graduate School of Agricultural and Life Sciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo, Tokyo 113-8657, Japan

### Deadline for manuscript submissions

closed (31 May 2023)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/90460](https://mdpi.com/si/90460)

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

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### 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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)