# Special Issue

# Fruit Crop Physiological and Metabolic Responses to Challenging Environments

## Message from the Guest Editors

We are pleased to invite you to submit your relevant research findings, or your reviews on the progress, problems, and future priorities in this field, to our Special Issue of "Fruit Crop Physiological and Metabolic Responses to Challenging Environments". Research areas may include (but are not limited to) the following:

- The physiological and metabolic effects of the challenging environments (drought, saline and alkaline osmotic stress, extreme temperatures, high-intensity UV irradiation, etc.) on fruit crop development, fruit flavor, and nutritional quality;
- To study the response and adaptation mechanisms of fruit crops to challenging environments using metabolomic, transcriptomic, proteomic, and epigenomic analysis;
- The differences in the adaptability of fruit crops to challenging environments between cultivars and geographical regions and the molecular mechanisms underlying these differences;
- The role and mechanisms of adaptive training or cultivation and management practices in improving stress resistance in fruit crops.

#### **Guest Editors**

Dr. Xiangmei Cao

Prof. Dr. Qingfeng Niu

Dr. Hongru Liu

## Deadline for manuscript submissions

20 April 2026



# **Plants**

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/214312

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants





# **Plants**

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



# **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, 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)

