



plants



an Open Access Journal by MDPI

Advances in Maize Physiology

Guest Editors:

Dr. Jun Xue

Institute of Crop Sciences,
Chinese Academy of Agricultural
Sciences, Beijing 100081, China

Dr. Si Shen

College of Agronomy &
Biotechnology, China Agricultural
University, Beijing 100193, China

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Maize, a crucial crop in global agriculture, possesses remarkable adaptability and importance in sustaining food security. Understanding the intricate physiological processes governing its growth and development is essential for optimizing production and resilience in the face of environmental challenges. Maize physiology encompasses a diverse range of mechanisms governing plant growth, nutrient uptake, stress responses, and yield formation, offering valuable insights for improving agricultural practices and food production systems.

This Special Issue seeks to attract scholars to contribute reviews or research articles that explore cutting-edge research and perspectives shaping the field of maize physiology. Topics of interest include molecular mechanisms underlying maize growth, physiological responses to stresses, innovations in crop management practices, breeding strategies for resilience and nutritional quality improvement, omics technology integration, and future trends in maize physiology. We welcome submissions that offer novel insights, challenge existing paradigms, and pave the way for transformative advancements in maize physiology.



mdpi.com/si/202953

Special *issue*



an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)