Special Issue

Advances in Maize Physiology

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.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/202953

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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

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