Special Issue

Key Technologies and Adaptive Cultivation of Food Crops to Cope with Climate Change

Message from the Guest Editors

The key technologies and adaptive cultivation of food crops to cope with climate change include field management technology, planting system adjustment, and crop model simulation. 1. For continuously improving agricultural productivity and income: improve food security, alleviate poverty, protect natural resources, mitigate climate change, and establish more sustainable, resilient, and inclusive food systems. 2. For adapting and resisting climate change: This includes enhancing the resilience of the food system, improving disaster resilience, and reducing the vulnerability of agriculture to drought, pests, diseases, and other climate related risks and impacts. Additionally, it entails enhancing the adaptability of agriculture to climate change. 3. For reducing or eliminating agricultural greenhouse gas emissions: This includes protecting farmlands to limit the expansion of energy-intensive cities, reducing methane generated by manure management, avoiding deforestation in agriculture, protecting water resources and soil health, introducing renewable energy production on farms, and identifying ways to absorb carbon from the atmosphere.

Guest Editors

Dr. Qi Hu

College of Resources and Environmental Sciences, China Agricultural University, Beijing 100193, China

Prof. Dr. Xuebiao Pan

College of Resources and Environmental Sciences, China Agricultural University, Beijing 100193, China

Deadline for manuscript submissions

closed (20 February 2025)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/184390

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

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, 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)

MDPI