Special Issue

Plant Responses to a Changing Climate: Ecological and Evolutionary Perspectives

Message from the Guest Editors

Anthropogenic climate changes have already produced numerous negative effects on natural ecosystems, including changes in major ecological processes, alterations in ecosystem functioning, and biodiversity decline. Being directly affected by shifts in temperature, precipitation, and carbon dioxide levels, plants play a crucial role in responding to and adapting to the changing climate. Climate change can alter plants' phenology, affecting the timing of flowering, seed germination, and other plant life cycle events, consequently disrupting ecological relationships and biodiversity. In addition, through various morphological, physiological, and biochemical adjustments, such as alteration of leaf structures, water-use efficiency, or growth patterns, plants can acclimate to changing climate conditions. Studying plant responses to a changing climate provides insights into the resilience and vulnerability of different species, helping to identify potential conservation priorities. As climate change continues to escalate, understanding how plant species are coping is crucial for predicting future ecological dynamics and devising effective conservation strategies.

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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/187188

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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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