

Special Issue

Plant-Environment Interactions: Responses to Climate Change and Global Challenges

Message from the Guest Editors

Many recent studies have forecasted that climate change and global warming could cause the extinction of up to 50% of the planet's plant species by the end of the century. Such a scenario would certainly have disastrous impacts on humanity as a whole, considering the fundamental role that plants play in the functioning of life on Earth. Plant-environment interactions cover dynamic exchanges occurring between plants and their physical, chemical and biological environment, including biotic and abiotic elements and other factors related to climatic conditions, environmental stresses, biogeochemical cycles, human influences and evolutionary adaptations. Nevertheless, climate change exerts significant and complex effects on such interactions. Changes in the conditions of plant growth, development and survival are, therefore, expected, as are later shifts in the behavior and allocation of plant species and ecosystems. This Special Issue will focus on exploring the responses of plant species, especially plant-environment interactions, to climate change factors and global challenges, which could help researchers to develop appropriate management strategies.

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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, and 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.

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