

Special Issue

Photosynthetic Acclimation under Environmental Stress: Insights from Biophysics and Physiology

Message from the Guest Editors

Photosynthesis integrates a wide range of spatial and temporal scales that are dependent on thermodynamic/environmental constraints imposed on the photosynthetic apparatus by various abiotic/biotic stresses. Various regulatory mechanisms occur within a wide timescale. Considering the continuing global climate changes, it is vital to understand and predict the current and the future environmental challenges for improving photosynthesis. Such improvement will translate into an increase in productivity to meet the demand for crops of the growing world population. In the last decade, a wide range of advanced biophysical methods and innovative techniques have been developed for assessing the physiological and photosynthetic performance of various photoautotroph species from the molecular to ecosystem levels. In this Special Issue, the editors invite works aiming to advance the study of photosynthesis that shed light on some novel biophysical aspects of photosynthesis. We also welcome research on physiological stress responses and their molecular mechanisms in all photosynthetic organisms.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2024)



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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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