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Photosynthetic Acclimation under Environmental Stress: Insights from Biophysics and Physiology

Guest Editors:

Prof. Dr. Alexander G. Ivanov

Prof. Dr. Wah Soon Chow

Dr. Alonso Zavafer

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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.



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Special Issue



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Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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