Special Issue

Application of Chlorophyll Fluorescence in Plant and Algal Stress

Message from the Guest Editors

Photosynthesis, the conversion of CO2 into energy via the absorption of sunlight, sustains almost all life forms on earth. The measurement and analysis of chlorophyll fluorescence provides useful information in understanding the biological process and changes in photosynthetic activities. In recent years, chlorophyll fluorescence measuring techniques and phenome measuring techniques, including signal and dual-channel measurement, have become the most powerful tools in the study of the reaction of photosynthetic organisms to environmental factors, including light rhythms and signals, drought and flooding stresses, temperature changes and other stresses. Moreover, these techniques are applied in the study of many other photosynthetic systems, such as photosynthetic bacteria, to monitor their biological process and measure their reactions to environmental stimuli as well. This Special Issue of Plants will highlight the current progress of chlorophyll fluorescence techniques and the development and application of these techniques in the study of the biological process and reactions to environmental stresses of, but not limited to, plants and algae.

Guest Editors

Prof. Dr. Yinglang Wan

College of Tropical Crops, Hainan University, Haikou 570228, China

Prof. Dr. Lu Yandu

State Key Laboratory of Marine Resource Utilization in South China Sea, College of Oceanology, Hainan University, Haikou 570228, Hainan, China

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Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants

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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

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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