



Application of Chlorophyll Fluorescence in Plant and Algal Stress

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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