Special Issue

Applications of Spectral Techniques in Plant Physiology

Message from the Guest Editor

Dear Colleagues The interaction of light with biological photosynthetic organisms results in physical phenomena such as scattering, reflection, absorption, and transmission; absorbed light oxidizes water molecules into molecular oxygen and protons and initiates photosynthesis via a series of highly complex photochemical and biochemical reactions; reflected light and scattered light are also highly informative and contain information on pigment compositions and/or surface structures. A range of spectroscopy techniques, with both non-imaging and imaging capabilities, have been widely used to unravel insights into photochemical, biochemical, and metabolic processes, as well as the mechanisms of plant photosynthetic reactions and their interactions with biotic and abiotic stresses on physiological states of the plants. This Special Issue will compile original research, reviews, perspectives on progress, technological breakthroughs, and challenges in the application of the spectroscopic techniques in plant physiology.

Guest Editor

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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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