

IMPACT FACTOR 4.5





an Open Access Journal by MDPI

Light and Plant Response: Adaptation to Extremes, Phenotypic Plasticity and Plant Competition

Guest Editors:

Dr. Agnieszka Klimek-Kopyra

Department of Agroecology and Plant Production, University of Agriculture in Kraków, 31-120 Kraków, Poland

Dr. Tomasz Czech

Faculty of Agriculture and Economics, Department of Agricultural and Environmental Chemistry, University of Agriculture in Krakow, Podłużna 3, 30-239 Kraków, Poland

Deadline for manuscript submissions:

closed (20 March 2023)

Message from the Guest Editors

Dear Colleagues,

Light is one of the most important environmental factors influence physiological processes, photosynthesis, photomorphogenesis, photoperiodism, phototropism and secondary metabolism (Gelderen et al., 2018). Plants have acquired a sophisticated network of photoreceptors that enable them to perceive and respond to environmental change. This is of particular importance under dense planting conditions, such as in most agricultural fields, where aboveground competition for light occurs. Competition for light among plants often induces asymetric competition, which can be successfully corrected by phenotypic plasticity ability. The effect of light intensity on plants has been studied experimentally for over 100 years now. However, there are still substantial gaps in the knowledge concerning the effects of daily light integral to plant reproduction, respiration, chemical composition, belowground organ adaptations, and plant interrelations

We welcome original research papers from leaf phenology to the ecosystem scale, based on experimental, theoretical, and modeling approaches, as well as review articles.













an Open Access Journal by MDPI

Editor-in-Chief

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

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 communitys on topics of interest to the plant research community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Plant Science)

Contact Us