



Effects of Abiotic Stress on Nutrient Absorption and Photosynthetic Rate of Plants

Guest Editor:

**Prof. Dr. Anastasia E.
Giannakoula**

Laboratory of Plant Physiology,
Department of Agriculture,
International Hellenic University,
54700 Sindos, Greece

Deadline for manuscript
submissions:

closed (28 February 2021)

Message from the Guest Editor

Dear colleague,

Abiotic stress is one of the most important factors that are responsible for adverse effects on plant growth and development. More precisely, different forms of abiotic stress such as drought, chilling, heat stress, and salinity can affect crop productivity worldwide. These stresses are likely to be further aggravated in the near future due to climate change.

Abiotic factors cause nutrient deficiencies, as the physiochemical properties of the soil can lead to a reduced mobility and absorbance of individual nutrients. In most cases of abiotic stress, plants show either low or excessive availability of nutrient requirements, which alters their biochemical composition and minimizes growth and yield.

Eventually, in order to cope with such impacts, a wide range of adaptations and mitigation strategies are required. Plants have developed various mechanisms in order to overcome threats caused by abiotic stress such as extreme temperatures, flood, salinity, and heavy metal. We would like to cordially invite you to contribute a paper to be included in the Special Issue ‘Effects of Abiotic Stress on Nutrient Absorption and Photosynthetic Rate of Plants’.





plants



an Open Access Journal by MDPI

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

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.

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

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)