



*plants*



an Open Access Journal by MDPI

## Effects of Metal Stress on Crops

Guest Editor:

**Prof. Dr. Bruno Lemos Batista**

Center of Natural and Human  
Sciences, Federal University of  
ABC, Santo André 09210-170, SP,  
Brazil

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editor

Natural processes and anthropogenic activities may lead to metal contamination of the environment. Crops are susceptible to suffer the influence of metal exposure by atmospheric dry and wet deposition, agrochemicals application and soil uptake. Some metals can accumulate in plant tissues and in edible parts, which is a serious concern to public health threatening food security. The effects of metal accumulation in crops can trigger directly or indirectly several biochemical, physiological, and morphological disturbances in plants. Understanding the dynamic of metal accumulation and plants defense mechanisms to manage this accumulation is an important issue to keep crops productivity. This Special Issue will focus on the recent advancements in the role of reactive oxygen species, plants pigments, nutritional balance and their contribution to tolerance to metal stress in food crops. Contributions involving metallic nanoparticles effects and tolerance in crops and remediation alternatives are also welcome. This is an interesting opportunity for publishing original research articles or reviews.



[mdpi.com/si/164787](https://mdpi.com/si/164787)

# Special Issue



# 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](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)