

Special Issue

Plants Respond to the Heavy Metal Toxicity

Message from the Guest Editors

As a consequence of anthropogenic activities, there is increasing soil and water contamination by heavy metals or metalloids, which affects human health and sectors such as agriculture. Agriculture, in turn, faces the challenge of increasing its yield to supply a growing global population; however, it is affected by soil and water contamination, climate change, and pathogens that are increasingly resistant to traditional solutions. This Special Issue aims to report sustainable techniques to combat heavy metal or metalloid contamination, such as phytoremediation, and to analyse the physiological and molecular effects of this type of contamination on plants, in order to find potential tolerance pathways in model plants that can be utilised, through advanced breeding techniques, in crops of interest.

Guest Editors

Dr. Alfonso Ortega

Dr. Ilda Jesús Casimiro Felicio

Dr. Inmaculada Garrido Carballo

Deadline for manuscript submissions

closed (20 March 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/212089

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

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

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

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 (Ecology, Evolution, Behavior and Systematics)