



## The Transfer of Metal(loid)s in Soil–Plant Systems

Guest Editors:

**Prof. Dr. Ali Boularbah**

**Dr. Sofia Isabel Almeida  
Pereira**

CBQF—Centro de Biotecnologia  
e Química Fina—Laboratório  
Associado, Escola Superior de  
Biotecnologia, Universidade  
Católica Portuguesa, Rua Diogo  
Botelho 1327, 4169-005 Porto,  
Portugal

Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editors

Dear Colleagues,

Soils may harbor elevated concentrations of metal(loid) micropollutants arising both from natural and/or anthropogenic sources including sewage sludge application, wastewater irrigation, and agrochemical inputs. Cultivating plants for food or fodder on contaminated soils poses the risk of absorption and subsequent transfer to edible parts, potentially endangering human and animal health. Metal accumulation in plant tissues can result from the absorption of metals by root systems and/or from the deposition of airborne metal contaminants onto plant surfaces. The extent of metal(loid) accumulation in plant tissues is highly influenced by a multitude of factors including the physicochemical and biological properties of soils, the elements involved, and the plant species. Submissions should encompass cutting-edge research on the origin, distribution, and behavior of metal(loid)s in soils, including their transfer within the soil–plant system. Emphasis should be given to rhizosphere processes influencing metal transfer, as well as methods for assessing bioavailability and conducting health risk assessments.





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 (Ecology, Evolution, Behavior and Systematics)

## Contact Us

---

*Plants* Editorial Office  
MDPI, Grosspeteranlage 5  
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)