

Special Issue

Phytoremediation of Toxic Elements

Message from the Guest Editors

Over the last 20 years, a tremendous boost has been observed in all aspects of phytoremediation research. Milestones in this field include mechanisms and rates of metal uptake, metal stabilization or immobilization in the rhizosphere by root exudates and microorganisms, the application of natural or synthetic chelators, short- and long-distance metal transport, and various issues related to metal toxicity. Despite the large load of the rapidly growing information, there are still open questions and challenging issues in this developing field. Thus, in this Special Issue, we welcome the submission of articles (i.e., research articles, reviews, and short communications) that focus on aspects of phytoremediation including physiology, biochemistry, genes, proteins, hormones, regulatory and signaling compounds, primary and secondary metabolites, nutrition, and environment, comprising transcriptome, proteome and metabolome studies, plant microbiome, metals interactions with nutrients in controlled studies, as well as field- and agronomic-scale trials on model plants, crops, trees, grasses, native species, etc.

Guest Editors

Dr. Kinga Drzewiecka

Department of Chemistry, Faculty of Forestry and Wood Technology,
Poznan University of Life Sciences, Wojska Polskiego 75, 60-625
Poznan, Poland

Dr. Aneta Piechalak

Department of Genome Biology, Adam Mickiewicz University,
Uniwersytetu Poznańskiego 6, 61-614 Poznań, Poland

Deadline for manuscript submissions

closed (30 September 2021)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/66219

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, and 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)