Special Issue

Phytoremediation and Plant Morphophysiology in Contaminated Areas

Message from the Guest Editors

Plants which are growing on contaminated areas use special strategies which enable them to avoid or tolerate stress. However, if the dose of stress factor is too strong, plants also show the symptoms of malformations which can lead even to plant death. At the beginning, both symptoms of defence strategies as well as disturbance symptoms occur at the molecular level. Subsequently, the signs of both plant resistance/adaptation to stress as well as its sensitivity are visible at the cellular, tissue and organ level. These symptoms can be used as markers of particular plant resistance or sensitivity for a given pollutant. Therefore, in this Special Issue, which concerns the phytoremediation and morphophysiology of plants growing on contaminated substrate/medium, we welcome the articles (original research papers, perspectives, hypotheses, opinions, reviews, modelling approaches and methods) that focus on symptoms of both adaptation and resistance strategies, as well as distortion effects in plants.

Guest Editors

Prof. Dr. Magdalena Krzesłowska

Laboratory of General Botany, Faculty of Biology, Adam Mickiewicz University , Uniwersytetu Poznańskiego 6, 61- 614 Poznan, Poland

Prof. Dr. Miroslaw Mleczek

Department of Chemistry, Faculty of Forestry and Wood Science, Poznan University of Life Sciences, 60-625 Poznan, Poland

Deadline for manuscript submissions

closed (31 March 2025)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/143657

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

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

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)

MDPI