

Special Issue

Heavy Metals Toxicity in Plants and Phytoremediation as Sustainable Approach

Message from the Guest Editors

In recent years, heavy metals (HMs) toxicity has emerged as one of the greatest threats to crop production, one which might become even more prevalent in the coming decades. Increased anthropogenic activities such as modern agriculture practicing, fertilizer application, and extensive use of groundwater for irrigation, sewage disposal, mining, and industrialization have disturbed the distribution of HMs, leading to their accumulation. Even a slight upsurge in the HM concentration beyond the permissible limit causes harmful effects to living entities. Several studies have reported that some plants showed the ability to hyperaccumulate HMs. The studies within this Special Issue are expected to address:

- The consequences of HMs on food security and the environment;
- HMs and sustainability of agricultural production;
- HMs toxicity in plants;
- HMs detoxification;
- HMs uptake and transport;
- Vacuoles sequestration of HMs;
- Role of defense mechanisms against HMs stress;
- Hyperaccumulators;
- Physio-biochemical mechanisms of HMs accumulation in hyperaccumulators;
- Phytoremediation.

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Deadline for manuscript submissions

closed (15 November 2022)



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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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