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.

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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.

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