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New Phytoremediation in Trace Elements Contaminated Soils

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

Plant-based ("phyto")-remediation comprises the so-called soft (or gentle) remediation practices, which take advantage of soil biological processes to promote natural soil remediation. Phytoremediation consists of the use of the plants and their associated microorganisms, supported by soil amendments, to remove (phytoextraction), immobilise (phytostabilisation), volatilise (phytovolatilisation) or degrade the soil contaminants (phytodegradation).

This Special Issue covers novel aspects of soil phytoremediation, including: new strategies for emerging inorganic pollutants and for mixed/combined contamination; criteria for remediated soils based on pollutant bioavailability, risk assessment, soil health and biodiversity; selection of plants tolerant of trace elements for specific soil and climatic conditions; new soil amendments to retain inorganic contaminants, thus reducing their bioavailability, toxicity and leaching risk. Both short-term experiments under controlled conditions and, especially, long-term validation experiments are welcome.

Prof. Dr. Maria Pilar Bernal
Prof. Dr. Paula Alvarenga
Guest Editors

mdpi.com/si/76992

Special Issue

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Message from the Editor-in-Chief

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