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Application of Green Plants in Phytoremediation of Heavy Metals Polluted Soil: A Mini-Review

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Abstract:
Contaminated soils represent an economic liability as well as a technical challenge. Heavy-metal pollution in the soil poses a serious threat to human health and the ecosystem. Conventional treatment technologies to remove the pollutants from wastewater are usually costly, time-consuming, environmentally destructive, and mostly inefficient. Phytoremediation is a suitable technique as it is easy to implement and maintenance, low cost, and environmentally friendly. More than 400 plant species have been identified to have the potential for soil and water remediation. The selection of plant species for phytoremediation is the most significant aspect of its success. This paper describes the use of green plants in phytoremediation in order to present the recent progress in research and practical applications of phytoremediation and the use of innovative approaches to enhance the phytoremediation potential of the green plants.
Keywords: Phytoremediation, heavy metals, pollutants, green plants.