

Review Article Phytoremediation Of Heavy Metal

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[Phytoremediation of heavy metals—Concepts and applications ...](#)

Environmental, Agricultural and Analytical Chemistry Section, Chemistry Department, University of Glasgow, Glasgow G12 8QQ, UK Received 20 August 2002; accepted 18 November 2002 Abstract This paper...

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Phytoremediation can be used as an alternative solution for heavy metal remediation process because of its advantages as a cost-effective, efficient, environment- and eco-friendly technology based on the use of metal-accumulating plants.

[A review of phytoremediation technology: heavy metals ...](#)

Abstract This review presents the status of phytoremediation technologies with particular emphasis on phytoextraction of soil heavy metal contamination. Unlike organic compounds, metals cannot be...

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Toxic heavy metals and organic pollutants are the major targets for phytoremediation. This review article discusses the state of phytoremediation technology for the removal of heavy metals mainly ...

[\(PDF\) Phytoremediation—An overview review](#)

This article presents a critical overview of the current status, challenges and opportunities in phytoremediation for heavy metals removal in contaminated soils. The primary attention is given to the phytoextraction and phytostabilization as the most widespread and alternative methods of soil reclamation. Download : Download high-res image (316KB)

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There are a number of phytoremediation strategies that are applicable for the remediation of heavy metal-contaminated soils, including (i) phytostabilization—using plants to reduce heavy metal bioavailability in soil, (ii) phytoextraction—using plants to extract and remove heavy metals from soil, (iii) phytovolatilization—using plants to absorb heavy metal from soil and release into the atmosphere as volatile compounds, and (iv) phytofiltration—using hydroponically cultured plants to ...

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Phytoremediation of soil organic pollutants differ among pollution sites and therefore requires different selection of plants. Because plants transform organic pollutants into non-toxic substances, there is no need to deal with potential waste. 4.2. Phytoremediation of heavy metals in soil

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PHYTOREMEDIATION – AN OVERVIEW REVIEW 87. Contaminated waste water 1-2 Removal of heavy metal from Radio nuclides 40-80 Removal of organics fro Contaminated ground water 65-115 Others 214-370 million dollars. Role of Environmental biotechnology and genetic Engineering in improving efficiency of Phytoremediation.

~~PHYTOREMEDIATION – AN OVERVIEW REVIEW~~

One of phytoremediation categories, phytoextraction, can be used to remove heavy metals from soil using its ability to uptake metals which are essential for plant growth (Fe, Mn, Zn, Cu, Mg, Mo, and Ni). Some metals with unknown biological function (Cd, Cr, Pb, Co, Ag, Se, Hg) can also be accumulated [5

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International Journal of Phytoremediation, Volume 22, Issue 14 (2020) Articles. Article. Effect of heavy metals on seed germination and seedling development of Nama aff. stenophylla collected on the slope of a mine tailing dump. Laura Yáñez-Espinosa , Roberto Briones-Gallardo , Joel Flores & Elizabeth Álvarez del Castillo .

~~International Journal of Phytoremediation: Vol 22, No 14~~

Phytoremediation is based upon several processes such as phytodegradation, phytovolatilization, phytoaccumulation and phytoextraction. These methods are efficient, eco-friendly and economic. This paper reviews the methods and mechanisms involved in phytoremediation of heavy metals, and enhancement processes.

~~Phytoremediation of heavy metals: mechanisms, methods and ...~~

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Thus, keeping in view the above facts, an attempt has been made in this article to review the current status, challenges and opportunities in the phytoremediation for remediating heavy metals from contaminated soils.

~~Challenges and opportunities in the phytoremediation of ...~~

Read PDF Review Article Phytoremediation Of Heavy Metal A review of phytoremediation technology: heavy metals ... Phytoextraction is the main and most useful phytoremediation technique for removal of heavy metals and metalloids from polluted soils, sediments or water (Cluis, 2004, Cherian and Oliveira, 2005, Milic et al., 2012).

~~Review Article Phytoremediation Of Heavy Metal~~

This review briefly elucidates the research undertaken and benefits of using aromatic plants for remediation of heavy metal polluted sites. A sustainable approach to mitigate heavy metal contamination of environment is need of the hour. Phytoremediation has emerged to be one of the most preferable choices for combating the metal pollution problem. Aromatic plants can be used for remediation of contaminated sites as they are non-food crops thus minimizing the risk of food chain contamination.

~~Suitability of aromatic plants for phytoremediation of ...~~

Heavy metals are nonbiodegradable and could be toxic to microbes. Several microorganisms have evolved to develop detoxification mechanisms to counter the toxic effects of these inorganic metals. This present review offers a critical evaluation of bioremediation capacity of microorganisms, especially in the context of environmental protection.

~~Toxicity and Bioremediation of Heavy Metals Contaminated ...~~

As far as heavy metal removal is concerned, a detailed understanding of metal-induced mechanisms are imperative to devise an effective remediation option, because the heavy metals are known to cause serious health implications such as fertility impairment, genetic, epigenetic, and biochemical alterations as discussed in above sections of this review (Rzymiski et al., 2015). This is due to the complexity and uniqueness of the contaminated sites caused by heavy metals.

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This paper focuses on strengthening technology mechanism, which can not only increase the biomass of plant and hyperaccumulators, but also enhance the tolerance and resistance to heavy metals, and application effect of phytoremediation, including agronomic methods, earthworm bioremediation and chemical induction technology. In the end of paper, deficiencies of each methods also be discussed, methods of strengthening technology for phytoremediation need further research.