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biochar to remediate  
heavy metal polluted  
soils: a review J. Paz-

Ferreiro 2,1, H. Lu

1,3, S. Fu 1, A.

Méndez 2, and G.

Gascó 2 J. Paz-

Ferreiro et al. ,,,, 1

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Ecosystems, South

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China Botanical  
Garden, Chinese  
Academy of Sciences,  
Guangzhou ...

**(PDF)**

**Phytoremediation**

**(review article) |**

**Sarwat Ismail ...**

Phytoremediation is  
the use of plants for  
the removal of  
pollutants from  
contaminated soil or



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water.

Phytoremediation is an environmentally friendly and cost-effective alternative to current remediation technologies. This review article outlines general aspects of phytoremediation, along with discussions about its advantages and limitations. It further

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reviews various  
phytoremediation ...

Of Heavy Metal

**A review of  
phytoremediation  
technology: heavy  
metals ...**

Toxic heavy metals  
and organic pollutants  
are the major targets  
for phytoremediation.

This review article  
discusses the state of  
phytoremediation

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technology for the  
removal of heavy  
metals mainly ...

## **Challenges and opportunities in the phytoremediation of**

...

Heavy metals are among the most important sorts of contaminant in the environment. Several methods already used

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to clean up the  
environment from  
these kinds of

contaminants, but  
most of them are  
costly and difficult to  
get optimum results.

Currently,  
phytoremediation is  
an effective and  
affordable  
technological solution  
used to extract or  
remove inactive

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metals and metal  
pollutants from ...

Of Heavy Metal

**A Review on  
Phytoremediation of  
Heavy Metals and ...**

Most of the review  
articles published so  
far mainly focus on  
individual methods on  
specific heavy metal  
removal, that too from  
a particular  
environmental matrix

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only. To the best of our knowledge, this is the first review of this kind that summarizes on various integrated processes for heavy metal removal from all environmental matrices.

**Frontiers |  
Integrated  
Remediation  
Processes Toward**

*Page 14/36*

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## **Heavy ...**

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

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and remove heavy metals from soil, (iii) phytovolatilization—using plants to absorb heavy metal from soil and release into the ...

## **PHYTOREMEDIATION | Annual Review of Plant Biology**

This review briefly elucidates the research undertaken and benefits of using



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aromatic plants for  
Phytoremediation  
Of Heavy Metal  
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.

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**Suitability of  
aromatic plants for  
phytoremediation of**

...

In this review, we will  
present ...

Phytoremediation of  
heavy metals by  
algae . Heavy metal r  
emov al m echanisms  
include sedim  
entation, flocculation,  
absorption and cations

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and anion . exchange,  
Phytoremediation

...  
Of Heavy Metal

**Phytoremediation of  
heavy**

**metals—Concepts  
and applications ...**

transport and  
sequestration, have  
opened up new  
possibilities in  
phytoremediation.

This review article  
provides a critical

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review of the recent  
progress towards the  
development of

transgenic plants with  
improved

phytoremediation  
capabilities and their  
potential use in

environmental clean  
up. INTRODUCTION

Environmental bio-  
technology is a new ...

**Use of**

*Page 20/36*

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**phytoremediation  
and biochar to  
remediate heavy ...**

Contaminated soils and waters pose a major environmental and human health problem, which may be partially solved by the emerging phytoremediation technology. This cost-effective plant-based approach to

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remediation takes advantage of the remarkable ability of plants to concentrate elements and compounds from the environment and to metabolize various molecules in their tissues. Toxic heavy ...

**(PDF) The role of algae in**

*Page 22/36*

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**phytoremediation of heavy ...**

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**A Review on Heavy Metals (As, Pb, and Hg) Uptake by Plants ...**

A review of phytoremediation technology: heavy

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metals uptake by  
plants. A Sumiahadi  
1,2 and R. Acar 3.

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Frontiers |

**Phytoremediation: A Promising Approach for ...**

Review article

Phytoremediation of heavy metal-contaminated land by trees—a review I.D.

Pulford\*, C. Watson

Environmental, Agricultural and

Analytical Chemistry

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Section, Chemistry

Department,

University of

Glasgow, Glasgow

G12 8QQ, UK

Received 20 August

2002; accepted 18

November 2002

Abstract

## **PHYTOREMEDIATION – AN OVERVIEW REVIEW**

The discharge of

*Page 26/36*

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untreated tannery wastewater containing biotoxic substances of heavy metals in the ecosystem is one of the most important environmental and health challenges in our society. Hence, there is a growing need for the development of novel, efficient, eco-friendly, and cost-effective

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approach for the  
remediation of  
inorganic metals (Cr,  
Hg, Cd, and Pb)  
released into the  
environment ...

**International Journal  
of**

**Phytoremediation:**

**Vol 22, No 12**

Phytoremediation is a  
novel, low cost,  
efficient and eco-

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## Phytoremediation

## Of Heavy Metals

friendly remediation strategy that has good public acceptance<sup>36</sup>.

Many factors affect the phytoremediation efficiency such as area, contaminants, plants, etc. (Figure 5). In this process, plants accumulate high levels of contaminant heavy metals in their rhizosphere and root tissues<sup>37</sup>.

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Phytoremediation

**Review Article**

## **Phytoremediation Of Heavy**

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

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is given to the phytoextraction and phytostabilization as the most widespread and alternative methods of soil reclamation.

## **Toxicity and Bioremediation of Heavy Metals Contaminated ...**

The type of plant utilized for

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phytoremediation (metallophytes) is categorized as metal indicators, metal excluders, and metal hyperaccumulators. This review article comprehensively discusses the source and effect of heavy metal on human health as well as phytoremediation techniques and



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mechanism during the  
heavy metal removal.

Of Heavy Metal

**Removal of Heavy  
Metals in  
Contaminated Soil  
by ...**

International Journal  
of Phytoremediation,  
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Article. Evaluation of  
*Enydra anagallis*  
remediation at a

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contaminated  
watercourse in south  
Brazil. ... The role of  
Fe-nano particles in  
scarlet sage  
responses to heavy  
metals stress. Siamak  
Shirani Bidabadi.  
Pages: 1259-1268.

**Review article**  
**Phytoremediation of**  
**heavy metal ...**

Highlights Heavy

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metal pollution is a serious environmental problem.

Phytoremediation is a better option for cleanup of metal-contaminated sites.

Phytoremediation is a green technology with good public perception. Research is in progress to screen plants for hyperaccumulation of

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heavy metals.

Advancement in

molecular studies will

improve efficiency of

phytoremediation.

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