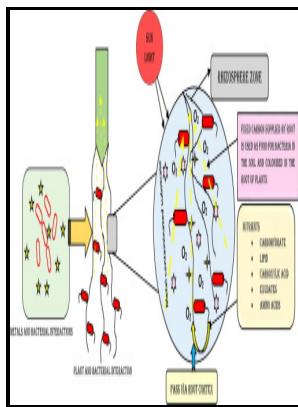


# Biosorption of metal contaminants using immobilized biomass - field studies

U.S. Dept. of the Interior, Bureau of Mines - Biomass for Sustainable Applications: Pollution Remediation and Energy



Description: -

- Heavy metals -- Absorption and adsorption.

Sewage -- Purification -- Adsorption.

Mineral industries -- Waste disposal.Biosorption of metal contaminants using immobilized biomass - field studies

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Notes: Includes bibliographical references (p. 10).

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Tags: #Detoxification #of #metal

## In situ immobilisation of toxic metals in soil using Maifan stone and illite/smectite clay

There are several cases that have involved heavy metals contamination, with the most popular case occurring in 1963 in Minamata Bay, Japan.

## Biosorption of metals using nonliving biomass — A review

Although the equilibrium time was 60 min for all the biosorbents used in this study, the contact time was fixed at 120 min for the remainder of the batch experiments to ensure that equilibrium was reached.

### 1. INTRODUCTION

Complete pyrolysis is critically important to transform all feedstock OC into carbonized, pyrogenic OC i. Water Air Soil Pollut 210: 197—202. Environ Sci Technol 37: 261—267.

## Biomass for Sustainable Applications: Pollution Remediation and Energy

Procedia Environmental Sciences 16, 722—729, 2012. Two particle size fractions of commercial-wood-derived biochar were tested: coarse 2—10 mm and fine 60%. Additionally, the treatment of Cd-contaminated soils with 0.

## Biosorption of Metal Contaminants Using Immobilized Biomass

Atmospheric deposition is responsible for 43—85% of the total As, Cr, Hg, Ni and Pb input, while livestock manure accounts for approximately 55%, 69% and 51% of the total Cd, Cu and Zn input, respectively.

## [PDF] Advances in the biosorption of heavy metals

Competing interests: The authors have declared that no competing interests exist.

**[PDF] Advances in the biosorption of heavy metals**

A variety of anthropogenic sources, including metal ore mining and smelting, industrial discharge, automobile emissions and agricultural practices e. At 20°C, however, sulfate-reducing conditions developed in the column as a result of the flow regime, which facilitated the establishment of anaerobic zones within the peat column, leading to a significant increase in effluent pH and metal removal.

**Biomass for Sustainable Applications: Pollution Remediation and Energy**

J Occup Med Toxicol 1: 22. This alga, in great demand, is also cultivated in these counties, especially in China, where the cultivation area was 2.

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