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A Review On Bioremediation Of Petroleum Hydrocarbon

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A Review On Bioremediation Of

Bioremediation is the most effective management tool to manage the polluted environment and recover contaminated soil. Bioremediation, both in situ and ex-situ have also enjoyed strong scientific...

(PDF) A Review on: Bioremediation - ResearchGate

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Bioremediation is the most proficient tool to manage the polluted environment and recover contaminated river water. Bioremediation is very much involved in the degradation, eradication, restriction, or reclamation varied chemical and physical hazardous substances from the nearby with the action of all-inclusive microorganisms.

Review on Bioremediation: A Tool to Resurrect the Polluted ...

bioremediation attempts indicates that there is a need to highlight the fundamental aspects of hydrocarbon microbiology in a clear and concise manner. Therefore, in this review, we would like to elucidate some crucial, but often overlooked, factors.

Principles for Bioremediation: A Review

Review on Bioremediation of Polluted Environment: A

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Management Tool Kumar.A, Bisht.B.S, Joshi.V.D, Dhewa.T
International Journal of Environmental Sciences Volume 1 No. 6,
2011. 1081 with better biodegradation kinetics for a variety of
contaminants within broad environmental habitats. Studies
examining extremophiles could result in using organisms in situ
that have a high tolerance for organic solvents and alkaline soils
or waters and that function at high ...

Review on Bioremediation of Polluted Environment: A ...

Bioremediation is considered as one of the safer, cleaner, cost
effective and environmental friendly technology for
decontaminating sites which are contaminated with wide range
of pollutants. The...

(PDF) A Review on Bioremediation of Heavy Metals in ...

A review of bioremediation technologies, based on published
article and patent documents, is presented for different types of

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contaminated matrices, bioremediation agents and contaminants. The worldwide database of the European Patent Office was searched using radicals of keyword as well as the International Patent Classification (IPC) to identify patents in our areas of concern.

Overview of bioremediation with technology assessment and ...

Bioremediation is defined as the process whereby organic wastes are biologically degraded under controlled conditions to an innocuous state, or to levels below concentration limits established by regulatory authorities (Mueller, 1996) By definition, bioremediation is the use of living organisms, primarily microorganisms, to degrade the environmental contaminants into less toxic forms.

BIOREMEDIATION - AN OVERVIEW - Research and Review

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Bioremediation is the most effective management tool to manage the polluted environment and recover contaminated soil. Use of microbial resources, coupled to other modern techniques is one of the most promising and economical strategies for removing environmental pollutants.

REVIEW ON BIOREMEDIATION POTENTIAL TOOL FOR REMOVING ...

The aim of review to express current trend the application/role of microorganisms on bioremediation and to contribute relevant background which is identified gaps in this thematic area. Presently, it is hot research area because microorganism are eco-friendly and promising valuable genetic material to solve environmental threats.

The Role of Microorganisms in Bioremediation- A Review

Today, bioremediation is a commonly used method to restore

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the natural and useful values of contaminated sites by microorganism able to degrade, transform, or chelate various toxic compounds. Microorganisms can break down organic pollutants by using them as a source of carbon and energy, or by cometabolism.

Natural carriers in bioremediation: A review - ScienceDirect

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 ...

Bioremediation approach is presenting a splendid alternate for

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conventional expensive and inefficient methods for the heavy metal removal. CONCLUSION: The patents granted on the bioremediation of toxic heavy metals are summarized in the present manuscript which supported the applicability of bioremediation technique at commercial scale.

Bioremediation of Toxic Heavy Metals: A Patent Review.

Bioremediation is a branch of biotechnology that employs the use of living organisms, like microbes and bacteria, in the removal of contaminants, pollutants, and toxins from soil, water, and other...

Bioremediation Definition - Investopedia

Bioremediation means cleanup of polluted environment via transformation of toxic heavy metals into less toxic form by microbes or its enzymes. Otherwise, bioremediation by microbes has limitations like production of toxic metabolites. The efflux of

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metal ions outside the cell, biosorption to the cell walls and entrapment in extracellular ...

Bioremediation of Heavy Metals | IntechOpen

Abstract: Mycoremediation is a cleanup technique within the larger field of bioremediation. In this literature review, the history, species and methods of mycoremediation are investigated. The literature suggests that many fungi have the ability to degrade a wide variety of pollutants.

2-Mycoremediation of Petroleum A Literature Review

Executive Summary The objective of this document is to conduct a comprehensive review of the use of commercial bioremediation products treating oil spills in all environments. Literature assessed includes peer- reviewed articles, company reports, government reports, and reports by cleanup contractors engaged in responses to oil spills.

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Literature Review of the Use of Commercial Bioremediation ...

Microbial and Plant-Assisted Bioremediation of Heavy Metal Polluted Environments: A Review Environmental pollution from hazardous waste materials, organic pollutants and heavy metals, has adversely affected the natural ecosystem to the detriment of man.

Microbial and Plant-Assisted Bioremediation of Heavy Metal ...

Bioremediation for Environmental Sustainability: Toxicity, Mechanisms of Contaminants Degradation, Detoxification and Challenges introduces pollution and toxicity profiles of various organic and inorganic contaminants, including mechanisms of toxicity, degradation, and detoxification by microbes and plants, and their bioremediation approaches for environmental

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sustainability.

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