

plant based remediation processes pdf

The main focus of this volume is on the recent advances of technologies using green plants for remediation of various metals and metalloids. Topics include biomonitoring of heavy metal pollution, amendments of higher uptake of toxic metals, transport of heavy metals in plants, and toxicity mechanisms.

Plant-Based Remediation Processes | SpringerLink

new plant species with this property is still growing from in-situ collections (Kraemer 2003), only a few species have been tested in the laboratory to confirm their hyperaccumulating behaviors. The urgency to discover hyperaccumulators has ... D.K. Gupta (ed.), Plant-Based Remediation Processes, Soil Biology 35, *)
...

Processes Remediation Plant-Based - Springer

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Basic and applied research have unequivocally demonstrated that selected plant species possess the genetic potential to accumulate, degrade, metabolize and immobilize a wide range of contaminants. The main focus of this volume is on the recent advances of technologies using green plants for remediation of various metals and metalloids.

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Soil contamination is defined as the accumulation of hazardous compounds within the soil environment. Among the various technologies developed for soil remediation and rehabilitation, plant-based ...

Principles of plant-based remediation of contaminated soils

in the environment than the parent compounds [27]. The primary mechanisms for plant-mediated remediation of soils contaminated with PHCs are: phytostabilization, phytodegradation, phytovolatilization, and rhizodegradation. A brief description of these key degradation processes follows.

Phytotechnologies: Plant-Based Systems for the Remediation

A valuable source of information for scientists in the field of environmental pollution and remediation Describes the latest biotechnological methods for the treatment of contaminated soils Includes case studies and protocols Phytoremediation is an emerging technology that employs higher plants ...

Plant-Based Remediation Processes | Dharmendra K. Gupta

Phytoremediation of Contaminated Soil and Water is the most thorough literary examination of the subject available today. The successful implementation of phytoremediation depends on identifying plant material

that is well adapted to specific toxic sites. Gentle remediation is then applied in situ, or at the contamination site.

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Phytoremediation is a cost-effective plant-based approach of remediation that takes advantage of the ability of plants to concentrate elements and compounds from the environment and to metabolize various molecules in their tissues.

Phytoremediation - Wikipedia

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In Situ vs. Ex Situ Remediation Soil Remediation techniques can be performed on-site or off-site using physical, chemical, or biological means. Phytoremediation is becoming an increasingly popular on-site treatment. Traditional soil remediation techniques are broken down into in situ (on-site) and ex situ (excavation and removal) treatments.

Soil Remediation with Cannabis â€” BlueSky Organics

Plant-Based Remediation Processes by Dharmendra Kumar Gupta, 9783642355639, available at Book Depository with free delivery worldwide. ... Basic and applied research have unequivocally demonstrated that selected plant species possess the genetic potential to accumulate, degrade, metabolize and immobilize a wide range of contaminants. ...

Plant-Based Remediation Processes - bookdepository.com

Amongst the pollutants that are of environmental and public health concerns due to their toxicities are: heavy metals, nuclear wastes, pesticides, green house gases, and hydrocarbons. Remediation of polluted sites using microbial process (bioremediation) has proven effective and reliable due to its eco-friendly features.

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