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Phytoremediation techniques in wastewater treatment

Treatment Of Grey Water Using Technique Of Phytoremediation

Waste water treatment by phytoremediation technique

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Endophytic Phytoaugmentation: Treating Wastewater and ...

The aim of the present investigation is to develop a suitable phytoremediation technology for the effective removal of toxic hexavalent chromium from mines wastewater. A water hyacinth species *Eichhornia crassipes* was chosen to remediate the problem of Cr (VI) pollution from wastewater.

Application And Techniques For Phytoremediation | Bohatala.com

Nowadays many technologies are using for treatment of environmental pollutions and phytoremediation as a green technology is going on to convert to one of the main ecofriendly technologies which scientist using in their researches.

Additionally, the different types of wastewater contaminants and their effects on phytoremediation and the phytoremediation consideration in wastewater treatment application and sustainable waste management of harvested aquatic macrophytes were reviewed. Finally, the present study explicates the future perspectives of phytoremediation.

initiates natural method for grey water treatment called phytoremediation. The technique of phytoremediation is an engineered natural way to treat waste water using properties of wetland plants. For

the remediation of grey water a small-scale unit is constructed and laboratory reports of various parameters are compared.

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Along with phytoremediation, in situ bioremediation is another in situ treatment option that is more ecologically friendly than traditional remediation technologies. 15 Bioaugmentation is a common bioremediation strategy that consists of adding exogenous microorganisms such as endophytes to remediate contaminated sediments and soils. However ...

Phytoremediation of urban wastewater by model wetlands ...

Phytoremediation of urban wastewater by model wetlands with ornamental hydrophytes. Most ornamental hydrophytes adapted to the wastewater well, and were fairly efficient in scavenging BOD 5 (biological oxygen demand 5 d), COD (chemical oxygen demand), TN (total nitrogen), TP (total phosphorus) and heavy metals (Cr, Pb, Cd) in the wastewater.

Wastewater treatment is one of many green projects municipalities are investing in. Phytoremediation is being used to clean up wastewater and soil as part of the new green consciousness. Phytoremediation is the direct use of green plants and their associated microorganisms to stabilize or reduce contamination in soil, wastewater, surface water, and ground water.

Phytoremediation Techniques for the Removal of Dye in ...

There are various techniques of phytoremediation which are applicable in wastewater treatment, in surface water and groundwater purification, in the removal of excessive nutritive substances from water reservoirs, and in reclamation of soil polluted as a result of environmental disasters (Dordio and Carvalho 2013).

Abstract. Phytoremediation attempts to use plants and microbes associated with plant root systems to protect the environment by removal of pollutants in the form of inorganic and organic wastes. Phytoremediation is capable of treating pollutants of dye waste, which are derived from various sources. Request PDF | Phytoremediation techniques in wastewater treatment | ABSTRACT Phytoremediation is a process of waste utilization and conversion by plants which includes such techniques as ...

Treatment of Water Using Water Hyacinth, Water Lettuce and ...

(PDF) Phytoremediation Techniques for the Removal of Dye ...

TREATMENT OF HEAVY METALS FROM WATER BY ELECTRO ...

Phytoremediation techniques for the treatment of different types of wastewater have been used by several researchers. These techniques are reported to be cost effective compared to other methods.

Various contaminants like total suspended solids, dissolved solids, electrical conductivity, hardness,...

Phytoremediation of Nitrogen as Green Chemistry for ...

in the treatment of wastewater contaminated with heavy metals. Keywords: phytoremediation, ... Many existing treatment techniques are not ... treatment systems) for the phytoremediation of heavy metals and other pollutants is a well-established -

Chapter 7: Wastewater Treatment by Phytoremediation ...

12 Phytoremediation Techniques for the Removal of Dye in Wastewater 247 contaminated sites, nonedible plants are mostly preferred on to the dye-contaminated soils.

Phytoremediation Techniques In Wastewater Treatment

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Phytoremediation of Wastewater | green wastewater treatment

The EU should stimulate research to upgrade existing waste water treatment by implementing phytoremediation modules and demonstrating their reliability to the public. One of the burning problems of our industrial society is the high consumption of water and the high demand for clean drinking water.

INTRODUCTION. Phytoremediation can be defined as "the efficient use of plants to remove, detoxify or immobilise environmental contaminants in a growth matrix (soil, water or sediments) through the natural biological, chemical or physical activities and processes of the plants".

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