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Microbial Bioremediation of Polycyclic Aromatic Hydrocarbons (PAHs) in Oily Sludge Wastes Polycyclic Aromatic Hydrocarbons (PAHs) are fused-ring hydrocarbon compounds that are highly recalcitrant under normal conditions due

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to their structural complexity and strong molecular bonds. particularly microbial applications technologies for.

Bioremediation Technologies for Polycyclic Aromatic ...

Bioremediation of polycyclic aromatic hydrocarbons sediments.8-10, Even aerobic environments such as

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contaminated soils, sediments and groundwater can develop anaerobic zones. This is due to the organic contaminant stimulating the in situ microbial community, resulting in the depletion of molecular oxygen during aerobic respiration. This oxygen is not replenished at the same rate as its depletion, which results in the formation

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of anaerobic zones proximal to the
contaminant source.

Bioremediation of Polycyclic Aromatic Hydrocarbons (PAHs)

Bioremediation uses soil microorganisms to degrade polycyclic aromatic hydrocarbons (PAHs) into less toxic compounds and can be performed in

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situ, without the need for expensive infrastructure or amendments.

Implications of Bioremediation of Polycyclic Aromatic ...

Bioremediation is a technique which uses microbes (bacteria, fungi and algae) to degrade or transform and mineralize various contaminants to

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carbon dioxide, water, inorganic salts and other by products. Biodegradation of polycyclic aromatic hydrocarbon (PAHs) has been achieved by bacteria [7, 8] fungi [9, 10] or algae [11, 12].

Bioremediation of Polycyclic Aromatic Hydrocarbon (PAHs ...

Although most green or bioremediation

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technologies discussed in this review have been recognized for more than a century as being able to successfully remediate PAH ... J. Lopez-Real, A. Beck
Bioremediation of polycyclic aromatic hydrocarbon (PAH)-contaminated waste using composting approaches. Crit. Rev. Env. Sci. Technol., 34 (2004), pp. 249 ...

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Remediation approaches for polycyclic aromatic ...

This paper aims to provide a review of the remediation technologies specifically for PAH-contaminated soils. The technologies discussed here include solvent extraction, bioremediation, phytoremediation, chemical oxidation,

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photocatalytic degradation,
electrokinetic remediation, thermal
treatment and integrated remediation
technologies.

Remediation of soils contaminated with polycyclic aromatic ...

The persistence and bioavailability of
polycyclic aromatic hydrocarbons are

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discussed as well, as they are important factors that influence the rate, efficiency and overall success of remediation.

Bioremediation (aerobic and anaerobic), use of biosurfactants and bioreactors, as well as the roles of biofilms in the biological treatment of polycyclic aromatic hydrocarbons are also explored.

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Polycyclic Aromatic Hydrocarbons: A Critical Review of ...

Polycyclic aromatic hydrocarbons
degradation by marine-derived
basidiomycetes: optimization of the
degradation process Posted by Patrick
Knavel On May 8, 2018 May 8, 2018
Filed under Biodegradation and

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Biodegradation and bioremediation papers - Environmental ...

Bioremediation (aerobic and anaerobic), use of biosurfactants and bioreactors, as well as the roles of biofilms in the biological treatment of polycyclic aromatic hydrocarbons are also

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explored. Keywords Polycyclic aromatic hydrocarbons (PAHs) . Environment Bioremediation Microorganisms.

Polycyclic Aromatic Hydrocarbons: A Critical Review of ...

Polycyclic aromatic hydrocarbons or polynuclear aromatic hydrocarbons (PAHs) are chemical compounds made

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up of more than two fused aromatic rings in a linear or clustered arrangement, usually containing only carbon (C) and hydrogen (H) atoms, although nitrogen (N), sulphur (S) and oxygen (O) atoms may readily substitute in the benzene ring to form heterocyclic aromatic compounds.

Where To Download Bioremediation Technologies For Polycyclic Aromatic **Remediation of soils contaminated with polycyclic aromatic ...**

The selective fusions with pyrene derivative to the rim and flank bonds of corannulene generated 4 and 7, respectively, which underwent a Scholl reaction to provide novel distorted PAHs CORA-1 and CORA-2, consisting of corannulene and dibenzocoronene units

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with different connections between them. The studies revealed that the properties of these PAHs are highly dependent on the fusing ...

Tuning the Properties of Corannulene-Based Polycyclic ...

The bioremediation of soil contaminated with polycyclic aromatic hydrocarbons

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(PAH) often is limited by a low
bioavailability of the contaminants.

**Surfactant-Enhanced Mobilization
and Biodegradation of ...**

Bioremediation of polycyclic aromatic
hydrocarbons sediments.8-10,40Even
aerobic environments such as
contaminated soils, sediments and

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groundwater can develop anaerobic zones.⁴¹ This is due to the organic contaminant stimulating their *situ* microbial community, resulting in the depletion of molecular oxygen during aerobic respiration.

Bioremediation of polycyclic aromatic hydrocarbons ...

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Polycyclic aromatic hydrocarbons (PAHs) are widely accumulated in sediments and thus impose great risks to the ecosystem and public health. There is increasing effort on the development of technologies for remediation of PAH-contaminated sediments. Adsorption is one of the most promising remediation technologies is to PAH-contaminated

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Applications of carbonaceous adsorbents in the remediation ...

Soil microbial community succession and interactions during combined plant/white-rot fungus remediation of polycyclic aromatic hydrocarbons. Author links open overlay panel Xiaodong Ma a Xia Li

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a b Yunhe Cheng c Junzhu Zou a
Junxiang Liu a Feifei Zhai d Zhenyuan
Sun a Lei Han a. Show more.

Soil microbial community succession and interactions ...

Composting is a remediation technique consisting of nutrient additions, moisture and oxygen control in a contained

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system. This technique is most commonly used for the treatment of municipal solid wastes and was demonstrated to be effective in biodegrading polycyclic aromatic hydrocarbons (PAHs) also [19,20].

STRATEGIES FOR REMEDIATION OF POLYCYCLIC AROMATIC ...

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Surfactant-enhanced remediation (SER) is considered as a promising and efficient remediation approach. This review summarizes and discusses main drivers on the application of SER in removing polycyclic aromatic hydrocarbons (PAHs) from contaminated soil and water. The effect of PAH-PAH interactions on SER efficiency

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Drivers and applications of integrated clean-up ...

Byss M, Elhottová D, Tříška J, Baldrian P
(2008) Fungal bioremediation of the
creosote-contaminated soil: influence of
Pleurotus ostreatus and Irpex lacteus on
polycyclic aromatic hydrocarbons
removal and soil microbial community

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Hydrocarbons: Composition
composition in the laboratory-scale
study. Chemosphere 73(9):1518-1523

**Polycyclic aromatic hydrocarbons:
soil pollution and ...**

Remediation approaches for polycyclic
aromatic hydrocarbons (PAHs)
contaminated soils: Technological
constraints, emerging trends and future

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directions. Kuppusamy S(1), Thavamani P(2), Venkateswarlu K(3), Lee YB(4), Naidu R(5), Megharaj M(5).

Remediation approaches for polycyclic aromatic ...

There are numerous other success stories of bioremediation in cleaning up chemical spills, leaking underground

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storage tanks of gasoline, and many toxic industrial pollutants. This paper outlines the various factors, including scientific, non-scientific, and regulatory, that limit the use of bioremediation technologies. R. Boopathy. (2000).

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