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Emerging bioremediation approaches
such as nano-bioremediation
technology, electro-bioremediation

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technology, microbial fuel cell technology, Modified Ludzack-Ettinger Process, Modified Activated Sludge Process, and phytotechnologies for the remediation of industrial wastes/pollutants are discussed in a comprehensive manner not found in other books.

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Emerging Technologies in Environmental Bioremediation ...

The ideal solution for pollution abatement is bioremediation. It is the most effective innovative technology that makes use of living microorganisms to degrade environmental pollutants or to...

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(PDF) Bioremediation: An emerging technology for ...

Other emerging bioremediation methods include electrobioremediation, microbe-assisted phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals and metalloids as well as degradation of organic pollutants,

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protein-metabolic engineering to enhance bioremediation efficiency, nanobiotechnology, system biology to bioremediation and so on.

New and Emerging Trends of Biotechnology in Bioremediation ...

Bioremediation of such nitrogenous compounds using microbes is one of the

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emerging technologies for removal of toxic forms of nitrogen from the environment. Optimization of nitrification and denitrification is necessary for successful bioremediation of nitrogenous compounds.

**Smart Bioremediation Technologies
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Microalgae have demonstrated potential for detoxifying organic and inorganic pollutants, with a number of large-scale wastewater treatment microalgal technologies already developed. There are three...

Microalgal bioremediation of emerging contaminants ...

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Biotechnology-Enabled Bioremediation of Legacy and Emerging Pollutants
1,4-Dioxane (dioxane) contamination has emerged as a compelling global water issue considering its carcinogenic potential and prevalent occurrence in aquatic environments, posing imminent risks to human health and natural biota.

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Biotechnology-Enabled Bioremediation of Legacy and ...

It was found that most of the studies performed on bioremediation of petrochemical waste employed bacteria for the degradation purpose. Some studies also made use of algae, fungi, yeast, gen... Current and emerging trends in bioremediation of

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petrochemical waste: A review: Critical
Reviews in Environmental Science and
Technology: Vol 47, No 3

Current and emerging trends in bioremediation of ...

Remedial Technology Fact Sheet -
Activated Carbon-Based Technology for
In Situ Subsurface Remediation (EPA

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542-F-18-001). This fact sheet concerns an emerging remedial technology that applies a combination of activated carbon (AC) and chemical and/or biological amendments for in situ remediation of soil and groundwater contaminated by organic contaminants, primarily petroleum hydrocarbons and chlorinated solvents.

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Remediation Technologies for Cleaning Up Contaminated ...

Bioremediation: an effective technology toward a sustainable environment via the remediation of emerging environmental pollutants 8.

Metagenomics in the remediation of contaminated sites and environmental

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Emerging technologies in environmental bioremediation ...

title = "Bioremediation of radionuclides:
Emerging technologies", abstract = "A
large quantity of radioactive waste is
being generated as the byproduct of
atomic energy and related programs

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worldwide. There are multiple radioactive waste dumping sites, that, if exposed to the general population, may cause serious life-threatening disorders.

Bioremediation of radionuclides: Emerging technologies ...

Thermal technologies to treat PFAS-impacted soils show promise but

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elevated temperatures (potentially >500 °C) may be required for treatment. There are a plethora of technologies evolving to manage PFASs but development is in its early stage, so there are opportunities for much ingenuity.

A review of emerging technologies

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The Internet of Things (IoT) is the emerging technology offering the greatest opportunities to create new business and revenues, according to CompTIA's second annual Top 10 Emerging Technologies ...

Top 10 emerging technologies of

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2019 - TechRepublic

Biosensors can be used for biomonitoring of these contaminants with of biological system.

Bioremediation plays an important role in the treatment of these pollutants of emerging concern. This review discusses about the sources, effects, and challenges in biomonitoring and

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bioremediation related to these emerging contaminants.

Emerging Pollutants in Aquatic Environment: Source, Effect ...

Enhanced in situ bioremediation (EISB) is an engineered technology that introduces physical, chemical, and biological changes to the aquifer to

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create the conditions necessary for microorganisms to transform contaminants of concern to innocuous byproducts. Recent innovations and trends to facilitate successful application are introduced.

**CLU-IN | Technologies >
Remediation > About Remediation**

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Bioremediation technology helps microorganisms grow and boosts microbial population by generating optimum environmental conditions. The particular bioremediation technology utilized is determined by various factors, including the site conditions, the presence of a type of microorganisms,

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and the toxicity and quantity of
contaminant chemicals.

Bioremediation: Global Markets and Technologies to 2023

The Global Bioremediation Technology &
Services market accounted for \$9.13
billion in 2019 and is expected to reach
\$17.53 billion by 2027 growing at a

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CAGR of 8.5% during the forecast period

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