

Biodegradation And Bioremediation

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Biodegradation And Bioremediation

The system will be used to monitor the emplacement of the amendment in order to determine if it reached the intended areas and to monitor changes in the subsurface geochemistry associated with ...

Optimized Enhanced Bioremediation through 4D Geophysical Monitoring and Autonomous Data Collection, Processing, and Analysis

Kumamaru, Tetsuya Suenaga, Hikaru Mitsuoka, Mariko Watanabe, Takahito and Furukawa, Kensuke 1998. Enhanced degradation of polychlorinated biphenyls by directed ...

7 - A history of PCB biodegradation

The technique of bioremediation uses living organisms--usually bacteria and fungi--to remove pollutants from soil and water with minimal disturbance to these environments. This approach, which is ...

Principles and Applications

To investigate the options for enhanced bioremediation. Natural processes controlling the distribution of gasoline residues have been characterised using geophysical, chemical, microbiological and ...

Processes controlling the natural attenuation of fuel hydrocarbons and MTBE in the chalk aquifer

These laboratory-based results indicate that when TCE and acetylene are present, addition of acetylene-fermenting bacteria can enhance bioremediation of TCE and reduce its harmful breakdown products.

Enhancement of Trichloroethene (TCE) Biodegradation in a Simulated Groundwater System

Developing a system in which plastics are designed for both chemical recycling and biodegradation is not only sensible but helps to overcome the artificial dichotomy emerging from current policies ...

Achieving a circular bioeconomy for plastics

Enhanced anaerobic bioremediation (EAB) is the newest technology in our continuously evolving biological treatment for chlorinated solvent contaminated groundwater. Developments in our understanding ...

Enhanced Anaerobic Bioremediation for Chlorinated Aliphatic Hydrocarbon Contaminants in Groundwater

It is a large-scale, gene discovery program on evolutionarily diverse fungal species chosen for their ability to grow at environmental extremes and their known ability in biodegradation, ...

Fungal genomics project

Anaerobic digestion, bioremediation and identification of biodegradation pathway of chemicals in the environment are my other area of research interests.

Department of Process Engineering and Applied Science

WP6: Enhancing bioremediation processes Mass transport phenomena which affect the supply or mixing of contaminants, oxidants and microorganisms needed for biodegradation and the enhanced ...

Work packages

Bioremediation of Contaminated Groundwater Environments Microbial Ecology and Kinetics of Chlorinated Aliphatic Solvent Biodegradation Conversion of Organic Solid ...

Environmental Engineering—Engineered Systems

Environmental Remediation - anaerobic and anaerobic biodegradation of organic (e.g., petroleum, chlorinated solvents) and inorganic contaminants (e.g., heavy metals, acidity, sodicity) in soils, ...

College of Engineering and Applied Science

Bioremediation of Contaminated Groundwater Environments Microbial Ecology and Kinetics of Chlorinated Aliphatic Solvent Biodegradation Conversion of Organic Solid Wastes and Cellulosic Feedstocks to ...

Jennifer Becker

Besides the landfills, a number of sludge lagoons, impoundments and oil biodegradation plots have been remediated in accordance with Decision Documents issued under the Consent Decree with the State ...

Portsmouth Cleanup Progress

Bacterial populations and the biodegradation of diesel compounds were continuously monitored by scientists from the University of Copenhagen's Department of Plant and Environmental Sciences and ...

Bacteria used to clean diesel-polluted soil in Greenland

Biogeochemical cycling, contaminant biodegradation, extremophiles ... these principles will be demonstrated in subject areas including biogeochemical cycling, bioremediation, contaminant fate and ...

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