

Organic contaminants

Biodegradation processes

Product of biodegradation

Mineralization to Co₂ and H₂O

Sequestration Leaching

Relation Between Mabtrasfer And Biodegradation Of Hydrophobic Pollutants In Soil

Ajay Singh, Owen P. Ward

Relation Between Mabtrasfer And Biodegradation Of Hydrophobic Pollutants In Soil:

Relation Between Mass-transfer and Biodegradation of Hydrophobic Pollutatns in Soil Hendricus Mulder, 1999 **Biodegradation and Bioremediation** Blaise Lindsey, 2018-10-11 Biodegradation is the break down of organic matter by microbes Bioremediation is an engineered technique applied by people to clean up organic matter by helping microbes with the biodegradation process One way of doing that is to introduce oxygen into the subsurface to help more aerobic microbes grow in order to clean up oil in the soil The potential toxicity harmful action inherent in a substance is manifest only when that substance comes in contact with that susceptible living biological system A chemical normally thought of as e harmlesse will evoke a toxic response if added to a biological system in sufficient amount The toxic potency of a chemicals is defined by the relationship between dose the amount of the chemical and the response that is produced in a biological system The toxicity of industrial wastes is not often managed and it has caused serious damage to earth and water The most important aspect of environmental biotechnology is the effective management of hazardous and toxic pollutants xenobiotics by bioremediation The environmental clean up process through bioremediation can be achieved in two ways in situ and ex situ bioremediation The book aims to provide relevant theoretical and practical frameworks and the latest empirical research findings in this area along with case studies It is written for students academicians and industry professionals who want to improve their understanding of the strategic role of biodegradation and bioremediation at different levels of the biodegradation and bioremediation research and knowledge that is heavy metal pollution toxicity remediation methods and Biodegradation and Detoxification of strategies to manage the waste in industries which are a global concern Environmental Pollutants A.M Chakrabarty, 2018-01-18 The basic objective of the book is to define and review the recent advances in our understand on the biological mechanisms in the biodegradation and detoxification of various environmental pollutants The book encompasses recent studies on the mode of detoxication of such mercurial compounds by various microorganisms Surfactant-Enhanced Insitu Biodegradation of Strongly Sorbing Organic Substances in Soil Environments, 1992 Slightly soluble high molecular weight chemicals and Polycyclic Aromatic Hydrocarbons PAH are common pollutants of concern in the remediation of oil spill sites Low volatility coupled with hydrophobic characteristics make them more persistent in nature In place biological transformation is believed to be the most effective process for their removal The hydrophobic nature of the contaminants results in a partition onto the soil matrix In most cases this can account for 95 99% of the total contaminant mass This limits the biological transformation by reducing the soluble concentration therby making them unavailable on the microbial population Thus a well designed bioremodiation process should consider a way of mobilizing the contaminants from the soil surface to make them available to the microbial population Surfactants have been found to be effective in mobilizing hydrophobic contaminants from soil surface Mobilization of contaminants by

surfactants depends on the surfactant soil contaminant interactions Edwards et al 1991 developed a model for the prediction

of the mobilization of low solubility organic contaminants by surfactants in soils **Biodegradation** Jaime Alvarez, 2016 This book provides an overview of biodegradation The first chapter provides a detailed description on the ability of Rhodococcus UKMP 5M to act as a biological tool to remediate phenol chlorinated compounds nitrile oil spillage and cyanide which selection was primarily based on their large scale presence in industrial wastewater Chapter Two presents advances made in recent decades on the understanding of the metabolic capabilities of sulfate reducing bacteria SRB from marine and other types of sediment i e freshwater estuarine for the biotransformation of carbon compounds and sulfate that are present as pollutants in several types of waters and soils Chapter Three concentrates on the different parameters that influence biodegradation speed and energy release potential Chapter Four reports and discusses several examples on biodegradation with bacteria and fungi of organochlorides organophosphates and more recently of pyrethroid pesticides Chapter Five discusses heavy metals as biodegradation inhibitors of the forest litter in contaminated areas Chapter Six introduces ecologically feasible ways of treating environments contaminated by BTEX a mixture of benzene toluene ethylbenzene and xylene based on efficient microbial metabolism Biodegradation, Pollutants and Bioremediation Principles Ederio Dino Bidoia, Renato Nallin Montagnolli, 2021-04-19 This book presents a broad compendium of biodegradation research and discussions on the most up to date bioremediation strategies. The most relevant microbiological biochemical and genetic concepts are presented alongside the fundamentals of bioremediation. The topics include a wide variety of contaminant impacts evaluation key methodologies required to measure biodegradation and propose new bioremediation protocols as well as the handling of microbial communities related to such processes. The selected collaborating authors are renowned for their microbiology expertise and will provide an in depth reference for students and specialists The contents provide a valuable source of information for researchers professionals and policy makers alike **Biodegradation and Bioremediation** Ajay Singh, Owen P. Ward, 2004-06-21 The diverse metabolic capabilities of microorganisms and their interactions with hazardous organic and inorganic compounds have long been recognized Microbial processes are environmentally compatible and can be integrated with non biological processes to detoxify degrade and immobilize environmental contaminants Bioremediation the application of biological methods has been used successfully for soil remediation For this volume a number of experts from universities government laboratories and industry share their specialist knowledge in environmental microbiology and biotechnology Chapters dealing with microbiological biochemical and molecular aspects of biodegradation and bioremediation cover numerous topics including bioavailability biodegradation of various pollutants microbial community dynamics properties and engineering of important biocatalysts and methods for monitoring bioremediation processes

Biodegradation and Bioremediation Martin Alexander,1999 Alexander presents the basic principles of biodegradation and how these principles relate to bioremediation All the subject s microbiological chemical toxicological environmental engineering and technological aspects are covered

Bioremediation Using the Land Treatment Concept Daniel F.

Pope, John E. Matthews, 1993 Solubilization and Biodegradation of Hydrophobic Organic Compounds in Soil ,1992 Nonionic surfactants may strongly interact with hydrophobic organic compounds HOCs soil and microorganisms in soil aqueous systems These interactions affect the potential for surfactant facilitated HOC transport in soil and groundwater systems and the feasibility of engineered surfactant cleanup of contaminated sites McCarthy and Wober 1991 At sufficiently high bulk liquid concentrations at 25 C most nonionic surfactants form regular micelles in single phase solutions whereas certain surfactants such as C12E4 may form bilayer lamellae or other types of aggregates in more complex two phase solutions. The critical concentrations for the onset of micelle and aggregate formation are termed the critical micelle concentration CMC and the critical aggregation concentration CAC respectively Important changes occur in surfactant sorption surfactant solubilization of HOCs and microbial mineralization of HOCs in the presence of nonionic surfactants at or near these critical surfactant concentrations Consequences of Microbial Interactions with Hydrocarbons, Oils, and **Lipids: Biodegradation and Bioremediation** Robert J. Steffan, 2019 In this book international experts discuss the state of the art in the biological degradation of hydrocarbons to meet remedial or disposal goals. The work focuses on practical applications often on globally important scales including the remediation of some of the world's largest crude oil spills Other related chapters discuss important implications of microbial transformation of hydrocarbons including treatment of high fat processing wastes impacts of microbial biodegradation activity on industrial processes and the implications of microbial oil degradation in relation to modern oil extraction processes like hydraulic fracturing of shales and extraction of oil sands

Biodegradation and Bioconversion of Hydrocarbons Kirsten Heimann, Obulisamy Parthiba Karthikeyan, Subramanian Senthilkannan Muthu, 2018-06-29 This book details three main topics the screening and characterization of hydrocarbons from air soil and water technologies in the biodegradation of hydrocarbons and the bioconversion of hydrocarbons for biofuel chemicals as well as recent developments in the remediation of hydrocarbons and their environmental benefits The first section focuses on screening methods qualitative and quantitative analysis of hydrocarbons from soil air and water environments speciation of hydrocarbons and natural bioremediation strategies in such environments The second section examines technologies for removing hydrocarbon contaminants from various environments especially advanced technologies for the removal of hydrocarbons and in situ and ex situ remediation strategies and problems as well as concrete case studies The last section covering the bioconversion of hydrocarbons for biofuel chemicals highlights the biochemicals and bioproducts developed from hydrocarbons with a particular focus on biochemical and chemical technologies used to produce biopolymers biofuel precursors and commodity chemicals from hydrocarbons Biodegradation and Bioremediation Ajay Singh, Owen P. Ward, 2014-01-15 Effects of Biosurfactants on Remediation of Soils Contaminated with Pesticides Özlem Zenginyürek,İzmir Yüksek Teknoloji Enstitüsü,2002 Pesticides have played a significant role in increasing food production and in view of growing worldwide food demand Nevertheless some of them have been classified as persistent toxic chemicals

This has resulted in serious concern about environmental contamination. Once a pesticide or toxic chemical find its way in the environment a major part of it comes in contact with soil There are several possible sources of pesticide contamination at manufacturing storage or user sites. The most serious examples of pesticide contamination are typically the result of poor production and waste management practices of pesticide manufacturing formulation and application facilities Improper storage handling and also have resulted in pesticide contamination at these sites and at landfills Today many remediation technologies are used to remove the pesticides from the soil One of the soil treatment methods is enhanced biodegradation Bioremediation of the soil has often proven to be a cheap solution for contaminated soil problem This research was conducted to investigate the effectiveness of biologically produced surfactants biosurfactants on the biodegradation of pesticide contaminated soil and evaluate the potential for biosurfactant enhanced bioavailability of pesticide in soil In order to determine the effectiveness of biosurfactants on pesticides sophorolipid and rhamnolipid type biosurfactants were used These biosurfactants were chosen since they are well characterized and their stimulating effect on the biodegradation of hydrophobic substrates was described in the literature In this study endosulfan and trifluralin were selected as pesticides The study was performed in two stages in laboratory conditions In the first part of the experiment degradation of endosulfan contaminated soil was studied by the presence of sophorolipid and in the second part of the experiment rhamnolipid IBR 425 was used on the removal of trifluralin contaminated soil Throughout the experiment three different concentrations of sophorolipid and rhamnolipid were applied to soil which are 0 98 9 75 and 195 ppm for sophorolipid and 1 6 100 and 1000 ppm for rhamnolipid The effectiveness of synthetic or microbial surfactants on biodegradation of chemicals has been investigated by many researchers However studies about the biosurfactant enhanced soil remediation for the pesticide contaminants are limited Besides that the outcome of surfactant applications has been highly system specific conflicting results reported in the literature Therefore despite the general trends outlined in literature the effect of biosurfactants on the biodegradation of organic compounds is poorly understood Opposed effects are frequently observed This study is the first M Sc thesis study about the use of biosurfactant enhanced bioremediation of pesticides in Turkey The results from first part of our study obtained from sophorolipid were not satisfactory since the degradation patterns for endosulfan were not affected by the presence of sophorolipid According to the second experiment results removal of trifluralin ranged from 24 35 % with the increase in rhamnolipid concentrations Addition of rhamnolipid JBR 425 into the soil was found to increase the degradation rate of trifluralin by 13 % as compared to the control soil column Additional time would probably increase the rate of degradation and bioavailability as a result of providing the adaptation of microorganisms in contaminated soil media and formation of more bioavailable metabolites Bioemulsifiers and Biodegradation of Environmental Pollutants in Soil ,1996 The effect of enhancement of biodegradation has been shown by application of a number of biosurfactants and bioemulsifiers in vitro Among lipopeptides the highest activity has been found in experiments with open form of lichenysin A

Lichenysin A itself and surfactin did not increase the biodestructive activity of microorganisms and moreover in most cases inhibited the PCB degradation A new glucose lipid surfactant MM1 showed in several tests a very high bioavailability enhancement In a number of experiments the alkane induced proteins from Gram negative strains and polysaccharides from bacilli strains appeared to be efficient PCB emulsifiers improving the biodegradation capabilities of several microbial strains. It should be noted that generally bioemulsifiers and biosurfactants act very specifically i e dependingly on strain and amount of these compounds used in experiment Experiments set up with soil samples did not get a clear answer whether bioemulsifiers could critically enhance the rates of biodegradation processes in situ Only with glucose lipid MM1 the more less detectable positive effect i e approx 12% increase of PCB degradation comparing to control has been found

The Top Books of the Year Relation Between Mabtrasfer And Biodegradation Of Hydrophobic Pollutants In Soil The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Relation Between Mabtrasfer And Biodegradation Of Hydrophobic Pollutants In Soil: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Relation Between Mabtrasfer And Biodegradation Of Hydrophobic Pollutants In Soil: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he guickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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