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# Toxicity and Waste Management Using Bioremediation



Ashok K. Rathoure and Vinod K. Dhatwalia



# Toxicity And Waste Management Using Bioremediation

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Mangesh Bhorkar**

## **Toxicity And Waste Management Using Bioremediation:**

**Toxicity and Waste Management Using Bioremediation** Ashok K. Rathoure, Vinod K. Dhatwalia, 2016 This book provides relevant theoretical and practical frameworks and the latest empirical research findings on the remediation of contaminated soil and groundwater using bioorganisms Provided by publisher *Toxicity and Waste Management Using Bioremediation* Rathoure, Ashok K., Dhatwalia, Vinod K., 2015-12-02 Bioremediation is an emerging field of environmental research The objective of a bioremediation process is to immobilize contaminants reactants or to transform them into chemical products that do not pose a risk to human health and the environment Toxicity and Waste Management Using Bioremediation provides relevant theoretical and practical frameworks and the latest empirical research findings on the remediation of contaminated soil and groundwater using bioorganisms Focusing on effective waste treatment methodologies and management strategies that lead to improved human and environmental health this timely publication is ideal for use by environmental scientists biologists policy makers graduate students and scholars in the fields of environmental science chemistry and biology *Waste Management Techniques for Improved Environmental and Public Health: Emerging Research and Opportunities* Tsai, Sang-Bing (Jason), Yuan, Zhengxi, Yu, Jian, Liu, Xuexin, 2019-12-27 A central concern that has remained relevant in recent years has been the management of waste and pollution Improper disposal methods such as open air burning and unsafe recycling have led to significant public and environmental health issues including respiratory disorders resource depletion and infant mortality Adopting new waste management techniques is a necessity in order to preserve the health of the global community and ecosystem *Waste Management Techniques for Improved Environmental and Public Health Emerging Research and Opportunities* provides innovative insights into the advancing methods and technologies of reducing pollution and promoting sustainable development The content within this publication examines ecological technologies risk assessment and green operation It is designed for ecologists biologists researchers enterprises academicians policymakers scientists environmental engineers and students seeking current research on developing theories and techniques within waste moderation and environmental protection *Bioremediation for Environmental Sustainability* Gaurav Saxena, Vineet Kumar, Maulin P. Shah, 2020-10-13 Bioremediation for Environmental Sustainability Toxicity Mechanisms of Contaminants Degradation Detoxification and Challenges introduces pollution and toxicity profiles of various organic and inorganic contaminants including mechanisms of toxicity degradation and detoxification by microbes and plants and their bioremediation approaches for environmental sustainability The book also covers many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation microbial fuel cells nano bioremediation constructed wetlands phytotechnologies and many more which are lacking in other competitive titles existing in the market The book includes updated information as well as future directions for research in the field of bioremediation of industrial wastes This book is a reference for students researchers scientists and professionals in the fields of microbiology

biotechnology environmental sciences eco toxicology environmental remediation and waste management especially those who aspire to work on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability Environmental safety and sustainability with rapid industrialization is one of the major challenges worldwide Industries are the key drivers in the world economy but these are also the major polluters due to discharge of potentially toxic and hazardous wastes containing various organic and inorganic pollutants which cause environmental pollution and severe toxic effects in living beings Introduces pollution and toxicity profiles of environmental contaminants and industrial wastes including oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more Describes underlying mechanisms of degradation and detoxification of emerging organic and inorganic contaminants with enzymatic roles Focuses on recent advances and challenges in bioremediation and phytoremediation including microbial enzymes biosurfactants microalgae biofilm archaea genetically engineered organisms and more Describes how microbes and plants can be successfully applied for the remediation of potentially toxic industrial wastes and chemical pollutants to protect the environment and public health

**Waste Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2019-12-06 As the world's population continues to grow and economic conditions continue to improve more solid and liquid waste is being generated by society Improper disposal methods can not only lead to harmful environmental impacts but can also negatively affect human health To prevent further harm to the world's ecosystems there is a dire need for sustainable waste management practices that will safeguard the environment for future generations Waste Management Concepts Methodologies Tools and Applications is a vital reference source that examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air water and soil pollution Highlighting a range of topics such as contaminant removal landfill treatment and recycling this multi volume book is ideally designed for environmental engineers waste authorities solid waste management companies landfill operators legislators environmentalists policymakers government officials academicians researchers and students

**Earthworm Assisted Remediation of Effluents and Wastes** Sartaj Ahmad Bhat, Adarsh Pal Vig, Fusheng Li, Balasubramani Ravindran, 2020-07-01 This book provides updated and comprehensive information on the effective functioning of earthworms used alone or in combination with other biological systems microbes as well as factors affecting the process and performance of vermiremediation under a range of conditions It also compares earthworm assisted vermifiltration with other conventional biochemical methods Presenting cutting edge research on the earthworm assisted remediation of industrial and municipal effluents and sludges along with its role in solid waste management SWM the book will benefit readers from the research community and industrial sector alike familiarizing them with the latest remediation techniques for wastewater and different types of solid waste

*Biotechnology for Waste Management and Site Restoration*

C. Ronneau, O. Bitchaeva, 2012-12-06 Biotechnology for Waste Management and Site Restoration covers waste management solid gaseous liquid site restoration radioactivity organics toxic metals educational economic social and business aspects and international collaboration International collaboration is growing apace and many concrete projects have been started The body of knowledge is growing Over the long term it is envisaged that this international collaboration will result in a long term scientific and technological strategy new technologies and alternative solutions and practical implementations of biotechnology for the nuclear and industrial sectors of the economy *Advanced Design of Wastewater Treatment Plants: Emerging Research and Opportunities* Hussain, Athar, Bhattacharya, Ayushman, 2019-05-31

With the advancement of new technologies existing wastewater treatment units need to be reexamined to make them more efficient and to release the load currently placed on them Thus there is an urgent need to develop and adopt the latest design methodology to determine and remove harmful impurities from water sources *Advanced Design of Wastewater Treatment Plants Emerging Research and Opportunities* is a critical scholarly resource that explores the design of various units of wastewater treatment plants and treatment technologies that can produce reusable quality water from wastewater The book covers topics that include the basic philosophy of wastewater treatment designing principles of various wastewater treatment units conventional treatment systems and advanced treatment processes It is an integral reference source for engineers environmentalists waste authorities solid waste management companies landfill operators legislators researchers and academicians **Airline**

**Green Operations Strategies: Emerging Research and Opportunities** Migdadi, Yazan Khalid Abed-Allah, 2020-04-03 As environmental concerns increasingly dominate public consciousness businesses are called upon to incorporate green methods and processes into their operations strategy The aviation industry is no exception and is responsible for taking more actions to reduce the negative environmental impact Designing and implementing a top down strategy conscious of environmental impact is a monumental challenge Only with a full understanding of the scientific and logistical hurdles can a green approach to airline operations succeed *Airline Green Operations Strategies Emerging Research and Opportunities* is an essential publication that examines methods of managing and limiting harmful waste and emissions from airlines and supports the adoption of the most effective green operation strategies policies and regulations by airlines Highlighting a broad range of topics including greenhouse gases noise management and competitive priorities this book is ideally designed for executives manufacturers environmentalists policymakers academicians researchers and students **Microbial**

**Biotechnology in Environmental Monitoring and Cleanup** Pankaj, Sharma, Anita, 2018-01-30 Pollutants are increasing day by day in the environment due to human interference Thus it has become necessary to find solutions to clean up these hazardous pollutants to improve human animal and plant health *Microbial Biotechnology in Environmental Monitoring and Cleanup* is a critical scholarly resource that examines the toxic hazardous substances and their impact on the environment Featuring coverage on a broad range of topics such as pollution of microorganisms phytoremediation and bioremediation this

book is geared towards academics professionals graduate students and practitioners interested in emerging techniques for environmental decontamination

**Advanced and Innovative Approaches of Environmental Biotechnology in Industrial Wastewater Treatment** Maulin P. Shah, 2023-07-31 This book discusses new and innovative trends and techniques in the removal of toxic and refractory pollutants by means of various microbial biotechnology processes from wastewater both on the laboratory and industrial scales The book also highlights the main factors contributing to the removal of toxic pollutants as well as recycling environmental impact and wastewater policies after heavy metal removal In addition it assesses the potential application of several existing bioremediation techniques and introduces new cutting edge emerging technologies This book significantly contributes to the wastewater treatment plant industry so that the treatment systems can serve better and more resiliently for the purpose This book is designed for engineers scientists and other professionals who are seeking introductory knowledge of the principles of environmental bioremediation technology and for students who are interested in the environmental microbiology and bioremediation fields

**Nano-Phytoremediation Technologies for Groundwater Contaminates: Emerging Research and Opportunities** Chaudhary, Khushboo, Khan, Suphiya, Saraswat, Pankaj Kumar, 2019-10-04 In the modern world industries and factories are rising exponentially This has led to the mass cultivation of non biodegradable products like heavy metals that have polluted the environment and become a major threat to plant growth crop yield and human health Conventional remediation technologies are expensive and may not remove contaminants effectively Therefore it is important to develop economically practical and more effective methods to decontaminate soils Nano Phytoremediation Technologies for Groundwater Contaminates Emerging Research and Opportunities is a collection of innovative research on the methods and applications of the use of plants for remediating metal contaminated soil and water While highlighting topics including molecular mechanisms nutrient interference and fluoride accumulation this book is ideally designed for environmental scientists environmental engineers agriculturalists farmers policymakers government officials research scholars professors and students studying in the fields of environmental engineering biotechnology nano technology bioscience and environmental science

**Unique Sequence Signatures in Plant Lipolytic Enzymes: Emerging Research and Opportunities** Ben Halima, Nihed, 2018-12-04 Lipids are biomolecules that constitute a significant amount of biomass in the earth and plant lipids are rapidly growing in interest due to their roles in improving food technology medicine nutrition and biotechnology With recent advances in protein chemistry biochemistry and enzymology promoting research on lipolytic enzymes it is important for research to address the mechanisms of such enzymes and their diverse functions Unique Sequence Signatures in Plant Lipolytic Enzymes Emerging Research and Opportunities provides innovative insights into the biochemistry of plant lipases and phospholipases as well as their structures and catalytic mechanisms The book explores the conserved domains and motifs of plant lipolytic enzymes by identifying the main residues involved in the catalysis in the enzymes and the phylogeny of important plant lipolytic enzymes

as well as calculating the evolutionary distance in those enzymes Organized into six chapters it is a vital reference source for researchers chemists biologists academicians practitioners medical professionals engineers and graduate students

Extreme Environments Anita Pandey, Avinash Sharma, 2021-06-24 The book *Extreme Environments Unique Ecosystems Amazing Microbes* is an attempt to showcase the uniqueness of extremophiles the largely unexplored group that has the abilities to function in hostile conditions and represent the very ancient life forms that thrived on earth billions of years ago The book covers a wide range of research achievements in the field of microbiology of extreme environments right from the conventional approaches of cultivation to recently evolved high throughput sequencing technologies The book provides a broad spectrum of information about the taxonomy physiology ecology and biotechnological applications of extremophiles from various extreme environments across the globe

**Handbook of Textile Effluent Remediation** Mohd Yusuf, 2018-07-11 Nowadays textile units utilize a number of dyes chemicals reagents and solvents to impart the desired quality to fabrics and generate a substantial quantity of effluents contaminants which cause severe environmental problems if disposed of without proper treatment In view of several surveys carried out through research papers books technical articles and general reports published in high repute academic societies *Handbook of Textile Effluent Remediation* provides a detailed narration of the acceptable methods of treating textile wastewater such as active ozonation membrane filtration and adsorption The book discusses emerging and suitable treatment systems that are viable efficient and economical In this context it provides an array of several traditional as well as advanced treatment practices for textile effluents It covers research oriented descriptions of textile wastewater treatment that can be adopted by scientific communities academicians and undergraduate and postgraduate students of industrial engineering materials science and engineering physics and chemistry It offers several interesting methodologies and aspects of current dimensional research through user friendly content tables and figures and provides up to date literature on important and useful information for textile effluents their impact on the environment and advanced remediation processes Needless to say this book is of immense use to global researchers academicians and consultants engaged in various streams of wastewater treatment science

*Soil Health and Environmental Sustainability* Pravat Kumar Shit, Partha Pratim Adhikary, Gouri Sankar Bhunia, Debashish Sengupta, 2022-09-27 This book demonstrates the measurement monitoring mapping and modelling of soil pollution and land resources This book explores state of the art techniques based on open sources software radioactive wastes microbiology of soil and sediments soil salinity and sodicity pollution from landfill sites soil erosion and contamination from agricultural activities heavy metal pollution and health risk environmental impact and risk assessment sustainable land use landscape management and governance soil degradation and risk assessment agricultural soil pollution pollution due to urban activities soil pollution by industrial effluents and solid wastes pollution control and mitigation in extreme environments The content of this book is of interest to researchers professionals and policy makers whose work is in soil science and agriculture practices

The book equips with the knowledge and skills to tackle a wide range of issues manifested in geographic data including those with scientific societal and environmental implications

**Municipal Solid Waste Management and Improvement Strategies** Dr. Rajesh Bhagat, Prof. Abhilasha Deshmukh, Dr. Amitkumar Ranit, Dr. Mangesh Bhorkar, 2024-09-20 Municipal Solid Waste Management and Improvement Strategies provides a comprehensive guide to addressing urban waste challenges with sustainable effective approaches Covering collection disposal recycling and waste to energy processes this book delves into innovative strategies and policies to improve waste management systems It emphasizes reducing environmental impact fostering community involvement and utilizing technology for efficiency Essential for policymakers environmentalists and urban planners it highlights practical solutions to create cleaner healthier and more resilient cities

*Bio-organic Amendments for Heavy Metal Remediation* Allah Ditta, Sajid Mehmood, Muhammad Imtiaz, Mike S Tu, 2024-07-23 Bio organic Amendments for Heavy Metal Remediation Water soil and plant focuses on these core continuum media to explore remediation options using microbial organic and combined approaches A volume in the Plant Biology Sustainability and Climate Change series this book offers a comprehensive view of techniques and approaches for addressing contamination by heavy metals As anthropogenic activities increasingly negatively impact natural resources there has been significant disturbance of water soil and plant continuum due to the accumulation of heavy metals The bioaccumulation of heavy metals in the food chain could pose life threatening effects on plants as well as humans and there is need to find effective and sustainable remediation options The application of bio organic amendments could serve as a sustainable solution to this problem Employing microbial organic and combined approaches to reduce the accumulation of heavy metals in the food chain ultimately would lead to the production of safe food for humans This book provides a comprehensive view of the challenge with a focus on the bioremediation of heavy metals contamination using ecotechnological approaches to protecting the soil water and plant continuum Highlights remediation techniques approaches for heavy metals under water soil and plant continuums Presents case studies for real world insights as well as current practices Includes regulatory aspects for ensuring safe implementation

**Progress in Mycology** Tulasi Satyanarayana, Sunil Kumar Deshmukh, Mukund V. Deshpande, 2022-02-22 Indian mycologists have extensively studied various groups of fungi such as soil fungi aquatic fungi marine fungi endophytic fungi fungi associated with man and animals Though several books on various aspects of fungi are published this is the first account of the history and development in mycology in India This book is the second volume of the two volume book Progress in Mycology An Indian Perspective While volume 1 contains the historical aspects taxonomy and information about the various groups of fungi this volume focuses majorly on the biotechnological applications of the different groups of fungi It discusses topics such as the extremophilic fungi the history and development in Candida research progress of mycotoxin research in India etc It provides a detailed account of the various enzymes and bio active molecules derived from fungi India shows a very high biodiversity of fungi and this book discusses these different group of fungi and

their industrial and biotechnological applications This book is useful to students teachers and researchers in botany microbiology biotechnology and life sciences agriculture and industries using fungi to produce various valuable products

**Removal of Toxic Pollutants through Microbiological and Tertiary Treatment** Maulin P. Shah, 2020-08-20 Removal of Toxic Pollutants through Microbiological and Tertiary Treatment New Perspectives offers a current account of existing advanced oxidation strategies including their limitations challenges and potential applications in removing environmental pollutants through microbiological and tertiary treatment methods The book introduces new trends and advances in environmental bioremediation technology with thorough discussion of recent developments in the field Updated information as well as future research directions in the field of bioremediation of industrial wastes is included This book is an indispensable guide to students researchers scientists and professionals working in fields such as microbiology biotechnology environmental sciences eco toxicology and environmental remediation The book also serves as a helpful guide for waste management professionals and those working on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability Introduces various treatment schemes including microbiological and tertiary technologies for bioremediation of environmental pollutants and industrial wastes Includes pharmaceutical wastewater oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more Describes the role of relatively new treatment technologies and their approaches in bioremediation including molecular and protein engineering technologies microbial enzymes bio surfactants plant microbe interactions and genetically engineered organisms Provides many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation technology microbial fuel cell technology nano bioremediation technology and phytotechnologies

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