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Toxicity and Waste Management Using Bioremediation



Ashok K. Rathoure and Vinod K. Dhatwalia



Toxicity And Waste Management Using Bioremediation

Arthur D. Bloom, Frederick de Serres



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

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

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

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

Biomedical Index to PHS-supported Research, 1990 Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992 **Bioremediation Technology** M H Fulekar, Bhawana Pathak, 2020-01-06 The book describes hazardous waste industries sources of waste generation characterization and treatment processes methods and technique and technology to deal with the treated waste as per the prescribed standard Advanced treatment based on the microbial remediation plant based decontamination rhizoremediation and nano based remediation is also explained Advances in treatment technology using biotechnological tools bionanotechnology for removal of contaminants are described This volume will help readers to develop biotechnological and nanotechnological approaches for the remediation of hazardous waste and the developed technology that can be transferred from laboratory to land and piloting to commercial scenarios Prof M H Fulekar a Professor and Joint Director R D Centre of Research for Development Parul University Dr Bhawana Pathak is working as an Associate Professor and Dean in School of Environment and Sustainable Development Central University of Gujarat **Waste Bioremediation** Sunita J. Varjani, Edgard Gnansounou, Baskar Gurunathan, Deepak Pant, Zainul Akmar Zakaria, 2017-12-01 This book discusses the bioremediation of both solid and liquid waste including regional solutions for

India as well as globally relevant applications The topics covered include pollutant reduction through composting solutions for petroleum refinery waste use of microorganisms in the bioremediation of industrial waste and toxicity reduction microbial fuel cells and microbial depolymerisation The book also explores the biosorption of metals and the bioremediation of leachates especially with regard to soil and groundwater remediation It is a valuable resource for researchers professionals and policy makers alike

Pollution Abstracts, 1996 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation

Principles of Environmental Management Rogene A. Buchholz, 1993 A comprehensive examination of environmental concerns important to business and management this volume provides a theoretical framework for analyzing environmental issues a discussion of specific environmental issues and strategic approaches to these problems from the standpoint of business and society

Microbial Transformation and Degradation of Toxic Organic Chemicals Lily Y. Young, Carl E. Cerniglia, 1995-08-18 Microorganisms offer a more effective and economical means of reducing or eliminating environmental contamination than more traditional treatment methods This study examines the role of microbes in the degradation of toxic organic chemicals

Journal of the Air & Waste Management Association, 2006
Emerging Technologies in Hazardous Waste Management III Daniel William Tedder, 1993 Based on a symposium held in Atlanta Georgia in October 1991 this volume is both an introduction to hazardous waste treatment for the novice and a reference for the technical expert Specialists in emerging technologies for treating and managing gaseous liquid and solid wastes contribute 22 chapters arranged within five sections physical and chemical wastewater treatment biological treatment soil remediation and treatment treatment of volatile compounds and selected mixed waste treatment applications Annotation copyright by Book News Inc Portland OR

Directory of Wisconsin Biotechnology Companies and Related Firms, 1993

Ecotoxicity and Human Health Arthur D. Bloom, Frederick de Serres, 1995-10-09 Ecotoxicity and Human Health emphasizes the relationships between toxicity ecological systems and human health It focuses on the extent and nature of hazardous waste sites and how their effects may be studied in humans and other systems using in vitro models biomarkers of cellular and molecular damage and animal models It also includes considerable information on bioremediation legal and regulatory issues public perceptions and societal responses quantitative modeling and analysis and international directives One of the unique features of Ecotoxicity and Human Health is its coverage of the legislative actions that have occurred over the past two decades and which have most affected the issue of hazardous waste The book discusses the Superfund Statute the Resource Conservation and Recovery Act RCRA the Toxic Substances Control Act TSCA the Ocean

Dumping Act of 1972 the Rio Conference United Nations Declarations EC Regulations and Directives and selected state legislation **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,2006 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 **Technologies for Environmental Cleanup: Toxic and Hazardous Waste Management** A. Avogadro,R.C. Ragaini,1994-04-30 Based on the lectures given during the Eurocourse on Technologies for Environmental Cleanup Toxic and Hazardous Waste Management held at the Joint Research Centre Ispra Italy September 13 17 1993 **Encyclopedia of Environmental Issues: Abbey, Edward-Environmental impact statements and assessments** Robert McClenaghan,2000 Environmental issues are among the most important and controversial of our time The complexities of the ecology economics politics and physics of such issues make them difficult to grasp and hard to solve With a focus on the U S this new resource aims to give a comprehensive overview of the issues people and history of environmental concerns Proceedings of the Aquatic Toxicity Workshop ,1997

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