Irena Sherameti Ajit Varma Editors

Heavy Metal Contamination of Soils

Monitoring and Remediation



Heavy Metal Contamination Of Soils Monitoring And Remediation Soil Biology

Mohammad Saghir Khan, Almas Zaidi, Reeta Goel, Javed Musarrat

Heavy Metal Contamination Of Soils Monitoring And Remediation Soil Biology:

Heavy Metal Contamination of Soils Irena Sherameti, Ajit Varma, 2015-04-06 Following a description of the various sources and factors influencing the contents of heavy metal pollution in post catastrophic and agricultural soils subsequent chapters examine soil enzymes and eggs as bio monitors lead adsorption the effects of arsenic on microbial diversity and the effects of Mediterranean grasslands on abandoned mines A third section focuses on the adaptation strategies used by plants and bacteria such as Pinus sylvestris in industrial areas and the rhizosphere in contaminated tropical soils and soil treated with sewage sludge Further topics addressed include strategies of bioremediation e g using transgenic plants as tools for soil remediation This new volume on heavy metals in soil will be of interest to researchers and scholars in microbial and plant biotechnology agriculture the environmental sciences and soil ecology **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 approached 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

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das, Hirak Ranjan Dash, 2017-04-07 Around the World metal pollution is a major problem Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates Heavy Metals and Other Pollutants in the Environment Gennady E. Zaikov, Larissa I. Weisfeld, Eugene M. Lisitsyn, Sarra A. Bekuzarova, 2017-07-20 This important new volume presents a plethora of research on the distribution of heavy metals in soils and rocks of natural habitats farmlands and urbanized areas

along with the factors influencing their bioavailability. The authors evaluate the content of organic matter soil acidity mineral fertilizers and more Developed for ecologists and specialists in the field of environmental protection and the conservation of biological diversity the book presents the problems of reducing the anthropogenic load on the surrounding countryside and focuses on sustainable agricultural development Managing soil health for sustainable agriculture Volume 2 Dr Don Reicosky, 2018-08-06 Discusses key methods for monitoring soil health Comprehensive review of techniques to manage soil health such as the use of rotations intercropping and cover crops Case studies of ways of supporting smallholders in maintaining soil health in regions such as Africa Asia and South America **Biomanagement of Metal-Contaminated** Soils Mohammad Saghir Khan, Almas Zaidi, Reeta Goel, Javed Musarrat, 2011-08-30 Heavy metal contamination is one of the world's major environmental problems posing significant risks to agro ecosystems Conventional technologies employed for heavy metal remediation have often been expensive and disruptive This book provides comprehensive state of the art coverage of the natural sustainable alternatives that use a wide range of biological materials in the removal detoxification of heavy metals consequently leading to the improvement of crops in these soils Novel environmentally friendly and inexpensive solutions are presented based on a sound understanding of metal contamination and the roles of plants and microbes in the management of these toxic soils Written by worldwide experts the book provides not only the necessary scientific background but also addresses the challenging questions that require special attention in order to better understand metal toxicity in soils and its management through bioremediation **Plant Metallomics and Functional Omics** Gaurav Sablok, 2019-07-04 Major portion of the planet earth is covered by seas and oceans representing 96 5% of the planet's water playing a detrimental role in sustaining the plant including crop diversity and productivity for human consumption Water resources contain both soluble and transition metals which are easily absorbed by plants through roots as a first point of contact and subsequently play important physiological and biological functions in plants Transition metals such as copper Cu iron Fe manganese Mn and zinc Zn contribute to the plant productivity by playing key functional roles in the photosynthesis In addition to their major role in regulating the plant productivity they also play an important role by acting as homeostatic regulators in uni parentally inherited chloroplasts and maintains the flow of the electron transfer It is worthwhile to mention that they play a critical role as transporters which acts as electron balancing units for managing the electrostatic potential across the membranes In contrast some metals such as Cd As play a significant role in inducing the stress mechanism and influencing either directly or in directly Haber Weiss reactions either through the production of the reactive oxygen species ROS or through the membrane damage thus leading to leakage of membrane transporters However besides playing a detrimental role as transporters in plant system excessive accumulation of these metals due to the increasing contamination in the marginal soil and water are posing important threats to the plant system Realizing the toxic effects of the metals several physiological evidences have been laid for the credence of the metal toxicity and their concurrent effect on plant

productivity Increasing effects of the metals as toxicants can have three adverse effects on the populations population can move persist via local adaptation or phenotypic plasticity or die Next generation sequencing studies have revolutionized our abilities to detect the changes in expression profiles across an array of genes which can in turn help to develop early markers of metal induced stress Plant Metallomics and Functional Omics A System Wide Perspective focuses on the applications of the system wide understanding of the biological and functional interplay occurring at the juncture of the metalloid induced stress and toxicity The main goal of this book is to familiarize the readers with the most up to date information on metal induced physiological changes in plant species Soil Pollution Armando C. Duarte, Anabela Cachada, Teresa A.P. Rocha-Santos, 2017-10-18 Soil Pollution From Monitoring to Remediation provides comprehensive information on soil pollution including causes distribution transport the transformation and fate of pollutants in soil and metabolite accumulation The book covers organic inorganic and nanoparticle pollutants and methodologies for their monitoring Features a critical discussion on ecotoxicological and human effects of soil pollution and strategies for soil protection and remediation Meticulously organized this is an ideal resource for students researchers and professionals providing up to date foundational content for those already familiar with the field Chapters are highly accessible offering an authoritative introduction for non specialists and undergraduate students alike Highlights the relevance of soil pollution for a sustainable environment in chapters written by interdisciplinary expert academics and professionals from around the world Includes cases studies of techniques used to monitor soil pollution Includes a chapter on nanoparticles as soil pollutants Offers comprehensive coverage of soil pollution including types and causes Manual for Soil Analysis - Monitoring and Assessing Soil **Bioremediation** Rosa Margesin, Franz Schinner, 2005-12-15 Reliable methods for monitoring and assessing soil quality are a prerequisite for successful soil bioremediation projects The fifth volume of Soil Biology presents detailed descriptions of selected methods for evaluating monitoring and assessing bioremediation treatments of soils contaminated with organic pollutants or heavy metals Traditional soil investigation techniques including chemical physical and microbiological methods are complemented by the most suitable modern methods such as the use of bioreporter technology immunological ecotoxicological or molecular assays Feasibility studies for bioremediation treatments complete the manual Easy to follow protocols with step by step procedures lists of the required equipment and reagents as well as notes on the evaluation and quality control allow immediate application Short introductions to the principles and objectives help to assess the field of Sustainable Development (ICITCSD - 2021) Varinder S. Kanwar, Sanjay K. Sharma, C. Prakasam, 2022-04-28 This volume presents select proceedings of the International Conference on Innovative Technologies for Clean and Sustainable Development ICITCSD 2021 held at the National Institute of Technical Teachers Training Research and Chitkara University Himachal Pradesh India It covers several important aspects of sustainable civil engineering practices dealing with effective

waste and material management natural resources industrial products energy food transportation and shelter environmental impact mitigation waste minimization and management sustainable infrastructure and geospatial technology for sustainable and clean environment Emphasis is placed on conserving and protecting the environment and the natural resource base essential for future development The book includes case studies and ongoing research work from various fields related to civil engineering presented by academicians scientists and researchers The book also discusses engineering solutions to sustainable development and green design issues Special emphasis is given on qualitative guidelines for the generation treatment handling transport disposal and recycling of wastes The book is intended as a practice oriented reference guide for researchers and practitioners It will be useful for anyone working in sustainable civil engineering and related fields

Biodegradable Waste Management in the Circular Economy Malgorzata Kacprzak, Eleonore Attard, Kari-Anne Lyng, Helena Raclavska, BalRam Singh, Eyob Tesfamariam, Franck Vandenbulcke, 2022-06-20 Biodegradable Waste Management in the Circular Economy Presents the major developments in new technologies and strategies for more effective recovery of matter resources and energy from biodegradable waste The volume of biodegradable waste produced worldwide is progressively increasing a trend that is predicted to continue well into the foreseeable future Developing sustainable cost effective and eco friendly approaches for processing food waste agricultural and organic industrial waste cardboard biodegradable plastics sewage sludge and other types of biodegradable waste is one of the most significant challenges of the coming decades Biodegradable Waste Management in the Circular Economy provides a detailed overview of the latest advances in the management of biomass for economic development Featuring contributions from an interdisciplinary team of experts this comprehensive resource addresses various technologies and strategies for recycling organic matter and many other renewable compounds In depth chapters describe the concept of circular economy identify new sources of biodegradable waste explore technologies for the production of biodegradable waste end products discuss the positive and negative effects of end products on soil and the environment and more Throughout the text the authors explore systematic approaches for secure biodegradable management in various countries and regions around the world Explores the social governance and economic aspects of waste as a resource Addresses metal recovery biofuel and fertilizer production and biosorbents and biochar derived from biomass waste Discusses nutrient recovery and energy and bio methane production from biodegradable waste Covers use cases collection systems and regulation of agricultural industrial and municipal biodegradable waste streams Presents various technologies for the production of biodegradable waste end products including biorefineries anaerobic digestion and hybrid methods Reflecting the latest trends in the rapidly changing field Biodegradable Waste Management in the Circular Economy is essential reading for researchers engineers scientists and consultants working in waste engineering and management resource recovery renewable resources environmental science Decontamination of Subsurface Water Resources agricultural and environmental engineering soil science and bioenergy

System using Contemporary Technologies Deepak Kumar, Pankaj Kumar Gupta, Bhupender Singh, Swati Verma, 2025-04-29 Decontamination of Subsurface Water Resources System using Contemporary Technologies provides a comprehensive approach to addressing the decontamination of subsurface water resources. It covers field experimentations modelling strategies remote sensing methods and the application of artificial intelligence. This broad coverage ensures that readers gain a well rounded understanding of the topic Purchasing this book offers a unique opportunity to access up to date comprehensive and scientifically grounded insights into subsurface water decontamination. This book will inform the student researcher policymaker or industry practitioner and contribute to positive change in the field of water resource management. Includes up to date assessment tools for water quality evaluation and advanced modelling techniques. Contains unique resources on the restoration of surface water resources with step by step analysis to guide students. Covers theory and practice by offering global case studies with applications. Offers thorough overview of Machine Learning ML Artificial Intelligence AI GIS and remote sensing and sensors application to achieve sustainable groundwater management

Innovative Bio-Based Technologies for Environmental Remediation Pardeep Singh, Chaudhery Mustansar Hussain, Mika Sillanpää, 2022-01-20 Innovative Bio Based Technologies for Environmental Remediation explores the recent applications of both the latest and broad practical and theoretical aspects of environmental remediation with an aim to combine various innovation based biotechnology for waste management waste minimization and waste to economy This book summarizes the recent progress of bio based technologies for environmental remediation at both an experimental and a theoretical model level An emphasis has been made on trends and the probable future of sustainable techniques to reduce waste and harmful compounds from the environment Biological based technologies have low operating costs and involve direct degradation of organic pollutants without the release of toxic intermediates Recent applications covered in this book include process intensification in bio based approaches green technology phytoremediation biopolymers biosurfactants for environmental applications and other bio based technologies with sustainable design and the future of remediation are also discussed This book is an important reference source for environmental scientists and engineers who are seeking to improve their understanding of how bio based technologies are playing an increasingly important role in environmental remediation It brings together recent innovations and practices of bio based technologies for environmental remediation outlines major bio based technologies and discusses biopolymers and biosurfactants for environmental management Microbial Oxidative Enzymes Arti Gupta, Pankaj Kumar, 2023-12-31 Microbial oxidative enzymes are in need of today and in the future also Several microbial oxidative enzymes are being used by various sectors like food agriculture medicine detergents leather paper etc Microbial oxidative enzymes are a natural product hence the application of these enzymes is eco friendly Oxidative enzymes from microbes like bacteria and fungi will be helpful in numerous applications including plant soil health management and waste treatments This book will be more informative as well as useful for related industries and end users

and will be of great value to those interested in present day research on oxidation reduction enzymes In the coming years this book will be a game changer for the field of oxidative enzyme development and its applications 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 **Remediation of Heavy Metals** Rangabhashiyam Selvasembian, Binota Thokchom, Pardeep Singh, Ali H. Jawad, Willis Gwenzi, 2024-01-09 Remediation of Heavy Metals Meet the challenge of contaminated water with a range of sustainable tools The treatment of water which has been polluted by heavy metals is an increasingly significant environmental challenge in an industrialized global economy The ongoing revolution in green technologies however has seen a range of sustainable methods emerge for treating water soils and other parts of the environment polluted by trace metals By putting these methods into practice environmental researchers and industrial professionals can improve water quality and public health globally Remediation of Heavy Metals offers a clear accessible reference on these methods and their applications It offers an overview of the major effects of heavy metal contamination and works through each of the methods or protocols available to remediate soil and minimize pollution at the source Remediation of Heavy Metals readers will also find Comparison of different approaches for heavy metal removal Detailed discussion of physical chemical and biological remediation methods Case studies demonstrating proper remediation Remediation of Heavy Metals provides key knowledge for environmental scientists environmental toxicologists and other researchers or industrial professionals working in heavy metal removal as well as advanced graduate students in these areas Rangabhashiyam Selvasembian PhD Associate Professor Department of Environmental Science and Engineering School of Engineering and Sciences SRM University AP Amaravati India Binota Thokchom PhD DST Inspire faculty member at the Centre of Nanotechnology Indian Institute of Technology Guwahati India Pardeep Singh PhD Assistant Professor in the Department of Environmental Science PGDAV College University of Delhi New Delhi India Ali H Jawad PhD Associate Professor in the Faculty of Applied Sciences Universiti Teknologi MARA Selangor Malaysia Willis Gwenzi PhD Leibniz Institute of Agricultural Engineering and Bio economy e V ATB Potsdam Germany and Universit t Kassel Witzenhausen Germany *Aquatic* Physiology, Environmental Pollution, Nanotoxicology and Phytoremediation Alaa El-Din Hamid Sayed, Francesco Fazio, Tomomi Watanabe-Asaka, Vincenzo Parrino, 2021-01-22 This Research Topic is part of the Aquatic Physiology Environmental Pollution Nanotoxicology and Phytoremediation series Aquatic Physiology Environmental Pollution

Nanotoxicology and Phytoremediation Volume II Environmental pollution as a result of increasing industrialization is a major problem worldwide The toxicity of the chemicals hazards radiation and environmental stressor to the aquatic fauna was studied Although recently the excess levels of wastes discharged in water caused severe toxicity in aquatic environments and their fauna still there is some shortage in the nanotoxicology and phytoremediation studies So the aim of this Research Topic is to create some knowledge about the environmental pollution and remediation in aquatic environment in collaboration with experts in physiology biochemistry endocrinology morpho histology of aquatic fauna The relation between physiology and other research fields is strong enough as all researchers in biology field use some extent physiological parameters to evaluate the organisms health status in normal and stressful conditions In addition physiology with endocrinology and neurology can provide a contribution on the endocrine stress response of aquatic vertebrates and regulate the responses of vertebrates to stressors Whilst the physiology of most aquatic animals has been well studied not many articles provide sufficient data that helps understanding the common bases of the stress response after exposure to environmental pollutants and mechanisms of action Such approach needs to be taken both in terms of comparative responses among vertebrates but also among classes or orders within groups of vertebrates Another aspect that has not been sufficiently approached so far is physiological stress response in relation to immunity growth reproduction or behavior and embryology of the aquatic organisms which expands the knowledge on the interactions between physiological systems to build an overall stress Natural and Constructed Wetlands Jan Vymazal, 2016-08-26 The book extends the knowledge on wetland response ecosystem services based on the new research The information combines the achievements gained in carbon sequestration nutrient accumulation macrophyte decomposition wastewater treatment global warming mitigation in constructed as well as natural wetlands across the globe The book presents up to date results of ongoing research and the content of the book could be used by wetland scientists researchers engineers designers regulators decision makers universities teachers landscape engineers and landscape planners as well as by water authorities water regulatory offices or wastewater treatment research Phytoremediation in Food Safety Sesan Abiodun Aransiola, Naga Raju Maddela, 2024-09-13 Phytoremediation institutions is the process that uses plants to remove pollutants from soils These pollutants are stored in the edible parts of plants and if they are consumed above a certain level they become a health risk for humans and animals This book is a critical review of phytoremediation its direct or indirect effects on food products and the risks posed by this cost effective technology in food safety It shows how different plants are suited for phytoremediation explains the role of toxicants in the environment and analyses their effects and risks in the food chain at a global level It also reviews the extraction methods of toxicants from plants after they are exposed to phytoremediation Features Summarizes the phytoremediation technology for effective remediation Describes different types of pollutants in soils that render food products useless Identifies the role of phytoremediation in the environment and its advantages and disadvantages Explains the role of phytoexclusion and

phytostabilization in foods and food safety Includes many case studies to describe the extraction protocols in postharvest for food safety This book is intended for practitioners in public and private companies involved in soil remediation and food production as well as graduate students and academics in both developed and developing countries who are involved in soil and environmental sciences the food industry agriculture and biotechnology Proceedings of the 16th International Conference on Soil Mechanics and Geotechnical Engineering The Organizing Committee of the 16th ICSMGE,2005-09-12 The 16th ICSMGE responds to the needs of the engineering and construction community promoting dialog and exchange between academia and practice in various aspects of soil mechanics and geotechnical engineering This is reflected in the central theme of the conference Geotechnology in Harmony with the Global Environment The proceedings of the conference are of great interest for geo engineers and researchers in soil mechanics and geotechnical engineering Volume 1 contains 5 plenary session lectures the Terzaghi Oration Heritage Lecture and 3 papers presented in the major project session Volumes 2 3 and 4 contain papers with the following topics Soil mechanics in general Infrastructure and mobility Environmental issues of geotechnical engineering Enhancing natural disaster reduction systems Professional practice and education Volume 5 contains the report of practitioner academic forum 20 general reports a summary of the sessions and workshops held during the conference

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