

Environmental Pollution 20

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Biomanagement of Metal-Contaminated Soils

 Springer

Bio management Of Metal Contaminated Soils **Environmental Pollution**

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Ansari,Sarvajeet Singh Gill,Anca
Macovei**

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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.

Biological Nitrogen Fixation and Beneficial Plant-Microbe Interaction Fernando González-Andrés, Euan James, 2016-06-02

This book covers the most recent advances in all the topics with which researchers and professionals need to be familiar in order to obtain a better understanding of and to better exploit beneficial plant-microbe interactions. The use of microorganisms for agriculture and environmental applications is gaining importance worldwide to improve crop performance but also for other environmental applications such as bioremediation in chemically polluted soils. The search for an equilibrium between fundamental and applied aspects makes this book useful for professionals at various levels in the value chain of the microbial biofertilizers. Challenges of commercializing biofertilizers involve efficiency of the products and safety for human health and the environment, topics that have paid central attention in this book. Students, scientists, and biofertilizers developers will find updated and comprehensive information about the different aspects to be considered to address a successful introduction of biofertilizers in sustainable agriculture and environmental actions.

Microbes and Enzymes in Soil Health and Bioremediation Ashok Kumar, Swati Sharma, 2019-11-23 Microbial enzymes play a vital role in maintaining soil health and removing pollutants from contaminated land. Soil microflora is closely associated with maintaining soil fertility, and the use of chemical pesticides, fertilizers, and other volatile sprays in agriculture threatens the health of the microbial population in the soil. Every single particle of healthy soil contains millions of bacteria which interact with the nutrients available, sustaining the nutrient cycle and making this microflora an essential component of life on earth. How do microbes help in the nutrient cycle? Either by intracellular digestion of macromolecules and converting these into smaller units in their metabolic pathways or by secreting enzymes into the extracellular environment to facilitate the conversion of complex macromolecules into micro-molecules that can be easily absorbed by other living species. To meet demands for energy and food for the growing global population, it is important to protect agricultural land from contamination and maintain its productivity. Heavy metal ions from contaminated land can enter crops, fish, or aquatic

organisms via contaminated water and these are then taken up by the human body where they can accumulate and alter the normal microflora. The microbiological component of the soil is a highly complex system and is still not fully understood. How do microbes survive in the changing physicochemical environment of soil? This book helps readers understand the mechanism, various routes of microbial soil remediation, the interactions of different genera, and how microbial enzymes support the sustainable restoration of healthy soil.

Toxicity of Heavy Metals to Legumes and Bioremediation Almas Zaidi, Parvaze Ahmad Wani, Mohammad Saghir Khan, 2012-03-21. This title discusses various effects of heavy metal exposure to legumes as well as the bioremediation potential of rhizosphere microbes. Availability of heavy metals, their uptake, and the effects of metals on various signaling pathways within legumes are presented. Furthermore, the effects of heavy metals on nitrogen fixing microorganisms and how microsymbionts can overcome metal stress is presented in detail. The role of nitrogen fixers in decontamination of heavy metal toxicity, mycoremediation of metal contaminated soils, microbially mediated transformation of heavy metals, and action of plant growth promoting rhizobacteria and nitrogen fixers together in detoxifying heavy metals are broadly explained. This volume is a useful tool for scientists, policy makers, and progressive legume growers intending to develop safe and healthy legumes for future generations.

Transgenic Plant Technology for Remediation of Toxic Metals and Metalloids M.N.V. Prasad, 2018-11-20. Transgenic Plant Technology for Remediation of Toxic Metals and Metalloids covers all the technical aspects of gene transfer from molecular methods to field performance using a wide range of plants and diverse abiotic stress factors. It describes methodologies that are well established as a key resource for researchers as well as a tool for training technicians and students. This book is an essential reference for those in the plant sciences, forestry, agriculture, microbiology, environmental biology, and plant biotechnology, and those using transgenic plant models in such areas as molecular and cell biology, developmental biology, stress physiology, and phytoremediation. Provides in depth coverage of transgenic plant technology for environmental problems. Discusses background and an introduction to techniques and salient protocols using specific plant systems. Includes emerging strategies for application of transgenic plants in remediation.

Design of Materials and Technologies for Environmental Remediation Shunitz Tanaka, Masaaki Kurasaki, Masaaki Morikawa, Yuichi Kamiya, 2023-01-01. This book describes environmental remediation technologies to remove pollutants from the environment and the environmental materials used for remediation. The focus is on the functional design of environmental materials, especially to create materials for coping with a variety of pollutants in different concentrations and conditions. The authors present research highlights from their work in this area and aim to inspire the development of new concepts in environmental remediation. This work is a must read for practitioners who are exploring restoration technologies and materials for solving environmental pollution, as well as researchers and graduate students studying environmental remediation. A number of Asian researchers who have been engaged in these studies are among the authors, and this book will contribute to solving pollution problems in Asia as well as the rest of the world.

Hazardous

and Trace Materials in Soil and Plants M. Naeem, Tariq Aftab, Abid Ali Ansari, Sarvajeet Singh Gill, Anca Macovei, 2022-08-13 Hazardous and Trace Materials in Soil and Plants Sources Effects and Management explores the latest advancements in reducing avoiding and eliminating soil contaminants that challenge the health and safety of agricultural plants With a focus on minimizing the production of those hazardous substances controlling their distribution and ensuring safe utilization the book explores each contributing area and provides insights toward improved sustainable and secure production This is an excellent reference resource on both current research and future directions from laboratory research to field applications The combined impacts of climate change and industrialization have led to increased and diversified threats to the health of the soil in which our food crops are grown as well as in the plants themselves This dual hazard scenario is increasingly recognized as a threat to not just the environment but to global food security as agricultural soils contaminated with pollutants alter plant metabolism thus resulting in reduced crop quality and production quantity Addresses the challenges of mitigating toxic substances in plants including agricultural crops Presents current status and future prospects for managing biotic and abiotic environmental stress factors through plant stress tolerance mechanisms Includes chapters that address both biotic and abiotic stresses agricultural and environmental science toxicology biotechnology nanotechnology and molecular studies Integrates insights and developments between environmental and plant science **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 *Mycorrhiza - Nutrient Uptake, Biocontrol, Ecorestoration* Ajit Varma, Ram Prasad, Narendra Tuteja, 2018-01-15 This is the fourth updated and revised edition of a well received book that emphasises on fungal diversity plant productivity and sustainability It contains new chapters written by leading experts in the field This book is an up to date

overview of current progress in mycorrhiza and association with plant productivity and environmental sustainability The result is a must hands on guide ideally suited for agri biotechnology soil biology fungal biology including mycorrhiza and stress management academia and researchers The topic of this book is particularly relevant to researchers involved in mycorrhiza especially to food security plant microbe interaction and environmental protection Mycorrhizas are symbioses between fungi and the roots of higher plants As more than 90% of all known species of plants have the potential to form mycorrhizal associations the productivity and species composition and the diversity of natural ecosystems are frequently dependent upon the presence and activity of mycorrhizas The biotechnological application of mycorrhizas is expected to promote the production of food while maintaining ecologically and economically sustainable production systems

Beneficial Elements for Remediation of Heavy Metals in Polluted Soil Shah Saud, Shah Fahad, Depeng Wang, 2025-02-21 Beneficial Elements for Remediation of Heavy Metals in Polluted Soils provides readers with comprehensive information on soil pollution and beneficial elements Each chapter summarizes the beneficial elements interaction in soil and its impact on the environment In addition the book covers many current environmental issues such as pollution and monitoring of various heavy metals organic pollutants and environmental hormones such as pesticides The book goes a step further by offering information on substances that have been recently confirmed and suspected to be carcinogenic chromogenic and transtoxic Toxicological issues such as the type and condition of the pollutants toxicity mechanism of action and influencing factors metabolic processes in vivo and toxic damage manifestations are also addressed Explains the impact of soil pollution on agriculture sector Enables soil scientists to design policies and management strategies for sustainable agriculture under changing climate Represent the most current scientific information regarding soil productivity under changing climate

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