

A. Singh O. P. Ward (Eds.)

Applied Bioremediation and Phytoremediation



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Applied Bioremediation And Phytoremediation Soil Biology

Yeqiao Wang



Applied Bioremediation And Phytoremediation Soil Biology:

Applied Bioremediation and Phytoremediation Ajay Singh, Owen P. Ward, 2013-06-29 The huge expansion of the chemical and petroleum industries in the twentieth century has resulted in the production of a vast array of chemical compounds and materials that have transformed our lives. The associated large scale manufacturing processing and handling activities have caused a serious deterioration in environmental quality and created threats to human health. These negative impacts have led to responses and regulations requiring remedial action in support of environmental sustainability of biotechnological methods through bioremediation. Application has gained prominence as an option for soil remediation methods. Bioremediation is a multidisciplinary approach where biologists, chemists, soil scientists and engineers work as a team to develop and implement remediation processes. Bioremediation has now been used successfully to remediate many petroleum contaminated sites. However, there are as yet no commercial technologies commonly used to remediate the most recalcitrant contaminants. Nevertheless, bioremediation is a rapidly advancing field and new bio-based remedial technologies are continuing to emerge. **Advances in Applied Bioremediation** Ajay Singh, Ramesh C. Kuhad, Owen P.

Ward, 2009-07-30 Bioremediation is a rapidly advancing field and the technology has been applied successfully to remediate many contaminated sites. The goal of every soil remediation method is to enhance the degradation, transformation or detoxification of pollutants and to protect, maintain and sustain environmental quality. Advances in our understanding of the ecology of microbial communities capable of breaking down various pollutants and the molecular and biochemical mechanisms by which biodegradation occurs have helped us in developing practical soil bioremediation strategies. Chapters dealing with the application of biological methods to soil remediation are contributed from experts/authorities in the area of environmental science including microbiology and molecular biology from academic institutions and industry.

Encyclopedia of Soil Science Rattan Lal, 2017-01-11 New and Improved Global Edition Three Volume Set A ready reference addressing a multitude of soil and soil management concerns, the highly anticipated and widely expanded third edition of Encyclopedia of Soil Science now spans three volumes and covers ground on a global scale. A definitive guide designed for both coursework and self-study, this latest version describes every branch of soil science and delves into transdisciplinary issues that focus on interconnectivity or the nexus approach. For Soil Scientists, Crop Scientists, Plant Scientists and More. A host of contributors from around the world weigh in on underlying themes relevant to natural and agricultural ecosystems. Factoring in a rapidly changing climate and a vastly growing population, they sound off on topics that include soil degradation, climate change, soil carbon sequestration, food and nutritional security, hidden hunger, water quality, non-point source pollution, micronutrients and elemental transformations. New in the Third Edition: Contains over 600 entries. Offers global geographical and thematic coverage. Entries peer-reviewed by subject experts. Addresses current issues of global significance. Encyclopedia of Soil Science Third Edition Three Volume Set expertly explains the science of soil and describes

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Encyclopedia of Natural Resources - Two-Volume Set Yeqiao Wang,2014-06-01 With unprecedented attention on global change the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide A full understanding of the range of issues from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life is crucial to the process of developing solutions to this complex challenge Authored by world class scientists and scholars The Encyclopedia of Natural Resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life their histories current status and future trends and their societal connections economic values and management The content presents state of the art science and technology development and perspectives of resource management Written and designed with a broad audience in mind the entries clearly elucidate the issues for readers at all levels Volume I Land includes 98 entries that cover the topical areas of renewable and nonrenewable natural resources such as forest and vegetative soil terrestrial coastal and inland wetlands landscape structure and function and change biological diversity ecosystem services protected areas and management natural resource economics and resource security and sustainability In Volume II Water includes 59 entries and Air includes 31 entries The Water entries cover topical areas such as fresh water groundwater water quality and watersheds ice and snow coastal environments and marine resources and economics The Air entries cover air pollutants atmospheric oscillation circulation patterns and atmospheric water storage as well as agroclimatology climate change and extreme events Additional topics in meteorology include acid rain drought ozone depletion water storage and more Natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia The Encyclopedia of Natural Resources does just that The topics covered help readers face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity

Hazardous Waste Management Zarook Shareefdeen,2022-04-22 This book provides readers with the most current knowledge on hazardous waste management practices It addresses the rapidly changing advances in waste stream characterization and the discovery of new chemicals which have led to new hazardous wastes technological innovation stringent environmental regulations changes in transport and dispersion modelling of hazardous pollutants and new waste management techniques Hazardous Waste Management Advances in Chemical and Industrial Waste Treatment and Technologies is an invaluable reference for waste management and treatment professionals chemical engineers and technicians medical professionals and environmental regulators as well as students taking courses on hazardous waste management environmental engineering and environmental science

Assessment and Remediation of Contaminated

Sediments Danny Reible,Tomas Lanczos,2007-01-21 Contaminated sediments pose some of the most difficult site remediation issues Contaminated sediments typically reside in spatially variable and dynamic systems subject to seasonal flow variations and episodic storm events The volume of sediments that must be managed at particular sites often exceeds one million cubic meters dwarfing many contaminated soil sites These sediments are also associated with equally daunting volumes of water and efforts to remove the contamination typically entrains even more water The environmental security of both NATO and partner countries is at risk due to the pervasive nature of sediment contamination of rivers lakes and harbors A NATO Advanced Research Workshop was convened in Bratislava in May 2005 to discuss current approaches to managing contaminated sediments and to identify research necessary to overcome outstanding problems In this text drawn from presentations and discussion of that workshop current approaches to the assessment and remediation of contaminated sediments will be discussed with the emphasis on in situ management Physical chemical and biological approaches for the assessment and remediation of sediments are all addressed Developing regulatory and strategic approaches are highlighted with a special emphasis on the potential for biological remediation for the management of contaminated sediments

Bacteria in Agrobiology: Stress Management Dinesh K. Maheshwari,2012-01-05 The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPB The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance Bacteria in Agrobiology Stress Management covers the major aspects on PGPR in amelioration of both abiotic and biotic stresses PGPR mediated in priming of plant defense reactions nutrient availability and management in saline and cold environment hormonal signaling ACC deaminase and its role in ethylene regulation under harsh conditions are suitably described

Terrestrial Ecosystems and Biodiversity Yeqiao Wang,2020-05-19 Authored by world class scientists and scholars The Handbook of Natural Resources Second Edition is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources this new edition demonstrates the major challenges that the society is facing for the sustainability of all well being on the planet Earth The experience evidence methods and models used in studying natural resources are presented in six stand alone volumes arranged along the main systems of land water and air It reviews state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of remote sensing and geospatial data with field based measurements in the study of natural resources Volume 1 Terrestrial Ecosystems and Biodiversity provides fundamental information on terrestrial ecosystems approaches to monitoring and impacts of climate change on natural vegetation and forests New to this edition are discussions on biodiversity conservation gross and net primary production soil microbiology land surface phenology and decision support

systems This volume demonstrates the key processes methods and models used through many case studies from around the world Written in an easy to reference manner The Handbook of Natural Resources Second Edition as individual volumes or as a complete set is an essential reading for anyone looking for a deeper understanding of the science and management of natural resources Public and private libraries educational and research institutions scientists scholars and resource managers will benefit enormously from this set Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science at different levels and disciplines such as biology geography earth system science and ecology *The Handbook of Natural Resources, Second Edition, Six Volume Set* Yeqiao Wang,2022-05-29 Authored by world class scientists and scholars the Handbook of Natural Resources Second Edition is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life Based on the content of the bestselling and CHOICE awarded Encyclopedia of Natural Resources this new edition demonstrates the major challenges that the society is facing for the sustainability of all wellbeing on planet Earth The experience evidence methods and models used in studying natural resources are presented in six stand alone volumes arranged along the main systems land water and air It reviews state of the art knowledge highlights advances made in different areas and provides guidance for the appropriate use of remote sensing data in the study of natural resources on a global scale The six volumes in this set cover Terrestrial Ecosystems and Biodiversity Landscape and Land Capacity Wetlands and Habitats Fresh Water and Watersheds Coastal and Marine Environments and finally Atmosphere and Climate Written in an easy to reference manner the Handbook of Natural Resources Second Edition as a complete set is essential for anyone looking for a deeper understanding of the science and management of natural resources Public and private libraries educational and research institutions scientists scholars and resource managers will benefit enormously from this set Individual volumes and chapters can also be used in a wide variety of both graduate and undergraduate courses in environmental science and natural science courses at different levels and disciplines such as biology geography Earth system science ecology etc Environmental Protection Strategies for Sustainable Development Abdul Malik,Elisabeth Grohmann,2011-09-18 The environment of our planet is degrading at an alarming rate because of non sustainable urbanization industrialization and agriculture Unsustainable trends in relation to climate change and energy use threats to public health poverty and social exclusion demographic pressure and ageing management of natural resources biodiversity loss land use and transport still persist and new challenges are arising Since these negative trends bring about a sense of urgency short term action is required whilst maintaining a longer term perspective The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy making This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils bioremediation of pesticides from soil and waste water toxic metals from soil biological

treatment of pulp and paper industry wastewater sustainable solutions for agro processing waste management solid waste management on climate change and human health environmental impact of dyes and its remediation Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples biofilm formation by the environmental bacteria biochemical attributes to assess soil ecosystem sustainability application of rhizobacteria in biotechnology role of peroxidases as a tool for the decolorization and removal of dyes and potential of biopesticides in sustainable agriculture It offers a unique treatment of the subject linking various protection strategies for sustainable development describing the inter relationships between the laboratory and field eco toxicologist the biotechnology consultant environmental engineers and different international environmental regulatory and protection agencies

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