



Frontiers of Energy and Environmental Engineering

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Springer

Xiaolong Qi



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Genetically Engineered Organisms in Bioremediation Dr Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Tariq Altalhi, 2024-01-20 Genetically Engineered Organisms in Bioremediation provides comprehensive coverage of biotechnological applications of genetically engineered microorganisms for the bioremediation of polluted environments. Chapters are contributed by international scientists with in depth knowledge expertise vision and commitment in their scientific profession. They detail several genetically engineered microorganisms and their enzymes that could be applied to biologically break down persistent organic pollutants and recombinant DNA technologies which entail development of suicidal GEMs for effective and safe remediation of heavily polluted sites. **FEATURES** Highlights genes that encode catabolic enzymes involved in the biodegradation of pollutants. Explores combining genetically engineered microorganisms with bioaugmentation biostimulation and bioattenuation strategies. Details the application of genetic engineering of bacteria for managing aromatic organic compounds under hypoxic conditions. Discusses tracking techniques and suppression strategies of genetically modified microorganisms. Written for researchers engineers and academics working in bioremediation microbiology and biotechnology this book is both timely and important.

Sustainable Agriculture under Drought Stress Hassan Etesami, Yinglong Chen, 2024-10-18 Sustainable Agriculture under Drought Stress Integrated Soil Water and Nutrient Management seamlessly blends cutting edge research with practical applications offering a unique perspective on tackling this urgent challenge. Through a multidisciplinary lens this book provides a cohesive and comprehensive understanding of both the current landscape and future prospects. Readers will find this book equips them with the knowledge and strategies required to manage soil nutrients and water effectively ensuring the health of both soil and plants especially in arid and semi arid regions where solutions are urgently needed. This book offers actionable insights into mitigating the impacts of climate change on agricultural systems making it essential reading for anyone invested in sustainable land management and food security. Clarifies mechanisms and proposes solutions for enhancing soil health and fertility irrigation management and crop production in drought stressed environments. Presents a diverse array of options for responding to drought stress optimizing plant health and furthering sustainability. Explores emerging cropping systems and opportunities.

Microbial Inoculants Ajay Kumar, Joginder Singh Panwar, Ana Maria Queijeiro López, Ravindra N Kharwar, 2025-05-23 Microbial Inoculants Soil Dynamics and Nutrient Bioavailability is an essential volume in the Plant and Soil Microbiome series. This book delves into the foundational and contemporary details regarding the use of microbial inoculants which are living organisms like fungi bacteria and microalgae sourced from soil plants water and organic materials. Acting as biostimulants or biocontrol agents these inoculants offer an environmentally friendly alternative to synthetic fertilizers and pesticides playing a crucial role in soil conservation plant health and crop yield enhancement. Apart from exploring the nexus between plant and soil the book also discusses the range of applications of microbial inoculants in

agricultural and environmental practices It provides insights into how these microorganisms contribute to sustainable farming by enhancing nutrient bioavailability and protecting crops from diseases thus promoting better yield and overall plant vitality This volume is a valuable resource for those interested in advancing agricultural techniques through the utilization of natural biotic solutions Includes perspectives from soil and plant nutrient impact Presents developments in dynamic network modeling including new experimental designs and techniques Emphasizes the diverse function of plant associated microbiomes

Microbes Based Approaches for the Management of Hazardous Contaminants Ajay Kumar,Livleen Shukla,Joginder Singh,Luiz Fernando Romanholo Ferreira,2024-09-11 Learn the various microbiological aspects one deals with in environment management and the remediation of toxic contaminants in the environment In recent years the accumulation of hazardous contaminants has caused a broad based deterioration in global environmental quality These have had wide ranging negative social impacts affecting climate soil and water ecosystems and more As traditional methods of contaminant mitigation have proven inadequate to the task microbial based remediation offers the clearest most environmentally friendly path forward for this crucial aspect of global environmental stewardship Microbes Based Approaches for the Management of Hazardous Contaminants offers comprehensive coverage of novel and indigenous microbes and their applications in contaminant mitigation Surveying all the major microbial products and methods for degrading and remediating hazardous pollutants it offers a key tool in the fight against global environmental degradation The result is a cutting edge introduction to an essential subject Microbes Based Approaches for the Management of Hazardous Contaminants will also find Current and future approaches to microbial degradation Detailed discussion of biofilms exopolysaccharides enzymes metabolites and many more Coverage of metabolic engineering as an alternative strategy Microbes Based Approaches for the Management of Hazardous Contaminants is ideal for those working in the field for the application of microbes in the remediation of hazardous pollutants and environment management particularly those interested in environmental sciences microbiology and microbial technology environmental biotechnology and molecular biology

[Magnetic Nanomaterials for Plant and Soil Systems Improvement](#) Azamal Husen,2025-10-01 Magnetic Nanomaterials for Plant and Soil Systems Improvement discusses the impact of nanotechnology on plant growth disease resistance and soil enrichment specifically focusing on magnetic nanomaterials like iron iron oxide cobalt and nickel ferrite nanoparticles The book starts with an introduction to the properties and fabrication processes of magnetic nanomaterials for plant and soil system application It then extensively examines the influence of these materials on plant biology growth production and the broader plant soil system This book includes discussions on the environmental safety of nanomaterials plant stress management plant disease control and ethical considerations associated with the use of magnetic nanomaterials in plant and soil systems Tailored for advanced students scientists and researchers in materials science nanotechnology and agriculture this book provides a comprehensive exploration of how magnetic nanomaterials can effectively enhance crop

performance Discusses the sustainable use of magnetic nanomaterials in plant soil systems Examines the production and application of nanoadditives nanofertilizers nanosensors nanopesticides nanoherbicides and nanosensors for improved crop management Reviews the environmental safety and ethical issues related to the use of magnetic nanomaterials in plant and soil systems **Banger Zeitschriften 2009** ,2009 *GeoRef Serials List* ,1992 *Virginia Division of Mineral Resources Publication* Virginia. Division of Mineral Resources,1977 *Current Advances in Ecological & Environmental Sciences* ,1994 *Mathematical Reviews* ,2002 **Bibliography and Index of Virginia Geology, 1990-1994** ,1995 **Current Advances in Applied Microbiology & Biotechnology** ,1997 *Mineral Industries Bulletin* Colorado School of Mines,1970 *Current Advances in Protein Biochemistry* ,1997 *The British National Bibliography* Arthur James Wells,2006 **Handbook of Environmental Engineering** Rao Surampalli,Tian C. Zhang,Satinder Kaur Brar,Krishnamoorthy Hegde,Rama Pulicharla,Mausam Verma,2018-08-24 A complete guide to environmental remediation technologies techniques and regulations This practical resource offers comprehensive coverage of the latest environmental codes alongside step by step remediation procedures The book features information on all segments of the market including water air quality and hazardous wastes and enables you to ensure compliance with federal regulations Handbook of Environmental Engineering fully explains engineering methods and technologies and directly connects them to applicable standards You will get details on environmental tools such as sensors and monitoring toxicity controls and treatments and waste disposal Measurement data environmental impact assessments and real world examples demonstrate how to apply each technique in the field *International Books in Print* ,1997 **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles **The Cumulative Book Index** ,1998 A world list of books in the English language **Medical Books and Serials in Print** ,1984

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