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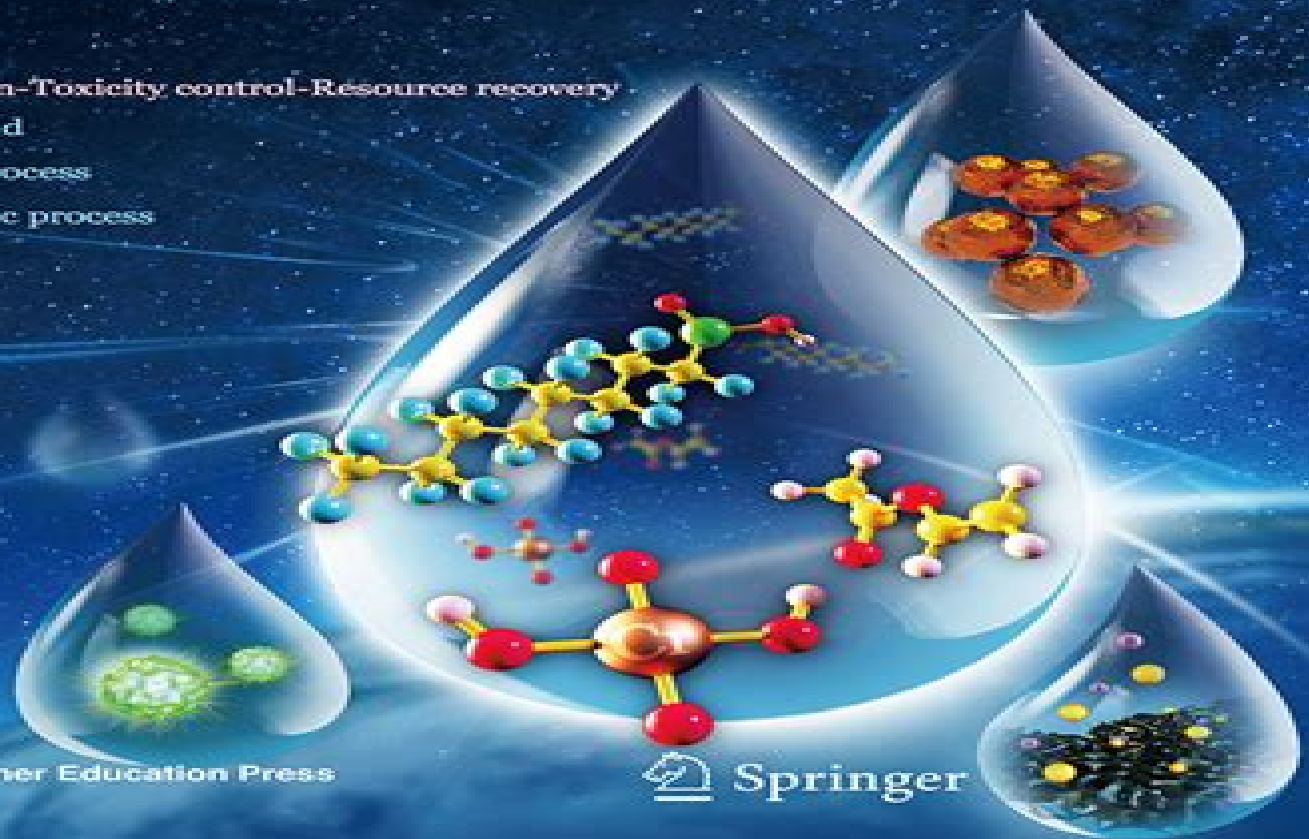
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Swarnendu Roy, Akbar Hossain



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Banger Zeitschriften 2009 ,2009 **Frontiers in Environmental Science - Editor's Picks 2021** Martin

Siebert,2021-11-24 **Exogenous Priming and Engineering of Plant Metabolic and Regulatory Genes** Manish Kumar Patel,Lam-Son Phan Tran,Sonika Pandey,Avinash Mishra,2025-01-30 Exogenous Priming and Engineering of Plant Metabolic and Regulatory Genes Stress Mitigation Strategies in Plants provides insights into metabolic adjustment their regulation and the regulatory networks involved in plants responding to stress situations It contains comprehensive information combining mechanistic priming and engineering approaches from the conventional to those recently developed In addition the book addresses seed priming tolerance mechanisms pre and post treatment as well as sensory response and genetic manipulation From basic concepts to modern technologies and prevailing policies readers will find this book useful in enhancing their understanding of the area as well as helping in identifying approaches for future research Provides detailed information on developing stress tolerant crop varieties using two distinct approaches Highlights advancements in OMICS approaches for different crops Assists readers in designing and evaluating plan for future research *Handbook of Plant and Crop Physiology* Mohammad Pessarakli,2021-07-12 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the third edition of the Handbook of Plant and Crop Physiology Following its predecessors the fourth edition of this well regarded handbook offers a unique comprehensive and complete collection of topics in the field of plant and crop physiology Divided into eleven sections for easy access of information this edition contains more than 90 percent new material substantial revisions and two new sections The handbook covers the physiology of plant and crop growth and development cellular and molecular aspects plant genetics and production processes The book presents findings on plant and crop growth in response to climatic changes and considers the potential for plants and crops adaptation exploring the biotechnological aspects of plant and crop improvement This content is used to plan implement and evaluate strategies for increasing plant growth and crop yield Readers benefit from numerous tables figures case studies and illustrations as well as thousands of index words all of which increase the accessibility of the information contained in this important handbook New to the Edition Contains 37 new chapters and 13 extensively revised and expanded chapters from the third edition of this book Includes new or modified sections on soil plant water nutrients microorganisms physiological relations and on plant growth regulators both promoters and inhibitors Additional new and modified chapters cover the physiological responses of lower plants and vascular plants and crops to metal based nanoparticles and agrichemicals and the growth responses of plants and crops to climate change and environmental stresses With contributions from 95 scientists from 20 countries this book provides a comprehensive resource for research and for university courses covering plant and crop physiological responses under normal and stressful conditions ranging from cellular aspects to whole plants **Sustainable Production of Root and Tuber Crops** Ravinder Kumar,Milan Kumar Lal,Rahul Kumar

Tiwari, Brajesh Singh, 2025-06-25 This book provides a comprehensive overview of the latest research and developments in the field of root and tuber crops from a sustainable production and protection perspective. With a focus on sustainable production methods, the book offers valuable insights and perspectives on how to improve the efficiency and sustainability of root and tuber crop production. This is particularly important given the increasing demand for food security and sustainable agriculture practices globally. The chapters focus on a wide range of production strategies including soil nutrient dynamics, nutrient management, fertilizer consumption, and cropping systems, as well as the use of modern farming techniques and technologies. With seed production and supply chains playing critical roles in cash crops like potatoes, a staple food in many countries, the volume also covers healthy seed planting material, low cost technological intervention for quality seed production, integrated weed management for local and global perspectives, and enhancing the efficiency of small holder farmers in the Global South. Finally, this book considers the challenges posed by pests and disease management. It describes management methods as well as the distribution, symptoms, and damage biology, survival, and spread of each pest, and also discusses various environmentally friendly pest management strategies such as physical, cultural, chemical, biological, host resistance, and integrated methods. This book will be of interest to students and scholars of sustainable agriculture, crop management, and plant sciences.

Synthesizing and Characterizing Plant-Mediated Biocompatible Metal Nanoparticles Das, Susanta, Khade, Shankar Mukundrao, Roy, Debanjali Barman, Trivedi, Khushbu, 2024-11-01 Metal nanoparticles ranging from 1 nanometer (nm) to 100 nm possess unique physical, chemical, and biological properties driving significant scientific and technological advancements. Traditional methods for producing these nanoparticles, such as physical and chemical synthesis, are often costly, time consuming, and hazardous to health. In response, green synthesis has gained popularity due to its non-toxic, eco-friendly, and cost-effective approach. This method uses plant materials and microorganisms to produce stable biocompatible nanoparticles. As a result, green synthesis is becoming a promising alternative for the development of metal nanoparticles. **Synthesizing and Characterizing Plant Mediated Biocompatible Metal Nanoparticles** describes the domain of synthesizing and characterizing plant-mediated biocompatible metal nanoparticles, exploring numerous applications from fostering a sustainable environment to diverse nanotechnological applications such as drug discovery, cancer treatment, and beyond. It further addresses a broad spectrum of societal and technological challenges and related issues, thereby assisting stakeholders in making informed decisions within this rapidly evolving field in our dynamic and contemporary scientific society. Covering topics such as antibiotics, nano-fertilizer, and wastewater treatment, this book is an excellent resource for policymakers, industry professionals, academicians, researchers, graduate and postgraduate students, and more.

Decontamination of Subsurface Water Resources 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

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 The

Nanotechnology Driven Agriculture Swarnendu Roy, Akbar Hossain, 2024-03-29 Nanotechnology is believed to accelerate our fight to sustain and enhance crop productivity for the ever increasing world population It has been reckoned as one of the safest and most cost efficient techniques to boost crop productivity in the future The ever increasing state of the art availability of various nanomaterials has allowed us to pursue their beneficial properties in agronomy Nanotechnology will help minimize the dependency on chemical fertilizers and existing crop production techniques that have already been exploited to their maximum potential Therefore in the present context it could well be realized that agriculture will be driven by nanotechnology in the future This book focuses on the application of nanotechnology for enhancing crop production through the application of nanofertilizers or nanocomposites Several avenues of nanotechnology are beneficial in improving crop productivity in a sustainable manner which has been presented in a comprehensive way The book also delves into the mechanistic view of nanoparticle functioning and its role in stress alleviation In addition the book presents some recent

insights into the application of nanotechnology for post harvest management stress tolerance and usage as nanobiosensors Broadly the book will encompass the following advances in the field distinguishing it from other published volumes The salient features include Role of nanoparticles in improving abiotic stress tolerance in plants Role of nanoparticles in protection against pathogens and pests Mechanism of nanoparticle induced plant responses Synthesis and modification of nanoparticles to enhance their biological efficacy Prospects of nanofertilizers nanoformulations nanopesticides etc and their beneficial attributes This book therefore presents this emerging topic and the most recent innovations in this field for postgraduate students researchers and faculty members working in the fields of plant science microbiology biotechnology agricultural sciences etc

New Perspectives on Seed Germination ,2025-06-04 Seed technology applications related to germination include research on its physiological and molecular basis as well as plant adaptation This book explores seed treatment technologies and examines the physiological molecular and adaptive mechanisms involved in the germination process It presents a new level of material that will interest researchers as well as advanced undergraduate students and others seeking a more comprehensive understanding of seed germination and its mechanisms

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

Myconanotechnology and Application of Nanoparticles in Biology Mohammed Kuddus,Iffat Zareen Ahmad,Chaudhery Mustansar Hussain,2023-07-22 Myconanotechnology and Application of Nanoparticles in Biology Fundamental Concepts Mechanism and Industrial Applications focuses on the emergence of myconanotechnology as a new science for the synthesis of nanoparticles using fungi and considering future applications and challenges The book demonstrates why mycology should be regarded as a megascience A subject requiring international collaboration to overcome barriers that need to be confronted in the interests of global security and human well being This reference provides a good source of knowledge and guidelines for advanced graduate students and will be of significant interest to scientists working on the basic issues surrounding applications of myconanotechnology Highlights established specific applications of myconanotechnology in various industrial sectors and discusses future research directions Provides academic and industry a high tech start up that will revolutionize modern industrial practices Offers a comprehensive coverage on myconanotechnology including real time case studies Focuses on the emergence of myconanotechnology as a new science for the synthesis of nanoparticles by using fungi Carries out an in depth and step by step description of knowledge on myco nanotechnology current research trends opportunities and their involvement in modern society

Chemistry of

Lignocellulosics Tatjana Stevanovic, 2018-08-14 This book presents the chemical properties of lignocellulosic fibers knowledge of which is essential for innovation and sustainable development of their transformation Thermochemical transformation of wood and other lignocellulosics is presented to highlight its volatile liquid and solid products and their novel applications Forest biorefinery is described to emphasize the new products from lignocellulosic constituents both structural cellulose hemicelluloses and lignins and those extraneous to cell walls extractives New developments in cellulose technology related to nanocellulose are discussed in relation to new applications Industrial lignins are presented in detail both in terms of extraction procedures from spent liquors and structural characterization of the isolated lignins Application of lignocellulosic biopolymers in new composite materials or in biomaterials for medicinal purposes and in solid wood preservation are described The example of an industrial biorefinery installed in southwestern France more than 40 years ago is presented

Microalgae for Environmental Biotechnology Pau Loke Show, Wai Siong Chai, Tau Chuan Ling, 2022-07-29

This is the first book to present the idea of using Industry 4.0 and smart manufacturing in the microalgae industry for environmental biotechnology It provides the latest developments on microalgae for use in environmental biotechnology explains process analysis from an engineering point of view and discusses the transition to smart manufacturing and how state of the art technologies can be incorporated It covers applications technologies challenges and future perspectives Showcases how Industry 4.0 can be applied in algae industry Covers new ideas generated from Industry 4.0 for Industrial Internet of Things IIoT Demonstrates new technologies invented to cater to Industry 4.0 in microalgae Features worked examples related to biological systems Aimed at chemical engineers bioengineers and environmental engineers this is an essential resource for researchers academics and industry professionals in the microalgae biotechnology field

Microbial Biotechnology Pankaj Chowdhary, Sujata Mani, Preeti Chaturvedi, 2022-09-27 A holistic approach covering a wide range of environmental microbial applications along with current and future trends In *Microbial Biotechnology Role in Ecological Sustainability and Research* a team of distinguished researchers delivers an authoritative overview of the role of microbial biotechnology in the pursuit of environmental and ecological sustainability The book provides readers with compelling presentations of microbial technology including its applications in the removal of environmental pollutants and sustainable agriculture using microbial biocontrol agents or bio fertilizers Readers will also be able to explore the microbial reduction of greenhouse gases and a wide range of other cutting edge applications including the removal of various toxic environmental contaminants such as antibiotics pesticides dyes and heavy metals *Microbial Biotechnology* provides A thorough introduction to microorganisms their metabolic engineering the human microbiome and other foundational topics An in depth exploration of environmental management including bioremediation through a nexus approach A fulsome treatment of current trends in microbial biotechnology and its role in sustainable production Perfect for professionals in applied microbiology biotechnology environmental engineering green chemistry and soil science *Microbial Biotechnology Role in Ecological Sustainability and*

Research will also earn a place in the libraries of research scholars scientists and academicians with an interest in environmental microbiology and ecology

Nanotechnology in Sustainable Agriculture M. Anwar Mallick, Manoj K. Solanki, Baby Kumari, Suresh Kumar Verma, 2021-07-08 Nanotechnology in Sustainable Agriculture presents applications of nanobiotechnology for eco friendly agriculture practices Implementing sustainable agriculture techniques is a crucial component in meeting projected global food demands while minimising toxic waste in the environment Nano technological tools including nanoparticles nanocapsules nanotubes and nanomolecules offer sustainable options to modernise agriculture systems Written by nanotechnology experts this book outlines how nano formulations can improve yield without reliance on chemical pesticides and reduce nutrient losses in fertilization It reveals how nanotools are used for rapid disease diagnostics in treating plant diseases and enhancing the capacity for plants to absorb nutrients Features Combines nanotechnology and agronomy presenting applications for improving plant performance and yields Reveals nanotechnology based products used for the soil and plant health management which mitigate climate change Discusses roles of microbial endophytes heavy metal nanoparticles and environment health nano nutrients phytochemicals green bioengineering and plant health This book appeals to professionals working in the agriculture and food industry as well as agricultural scientists and researchers in nanotechnology and agronomy

Biomass for Environmental Remediation Yasser

Vasseghian, 2025-03-29 Biomass for Environmental Remediation explores the pivotal role of biomass in revolutionizing environmental remediation From wastewater treatment to air pollution control and soil remediation this book delves into the myriad applications of biomass including the synthesis of advanced nanomaterials for sustainable solutions Users will find the latest advancements in harnessing organic resources for a cleaner and greener future while also uncovering the diverse sources of biomass and the innovative techniques transforming them into powerful tools for environmental restoration With insightful chapters on phytoremediation microbial applications and the production of biomass derived nanomaterials this book serves as a vital guide for professionals researchers and students at the forefront of environmental sustainability Covers the entire biomass lifecycle allowing readers to gain a holistic understanding of how biomass can be seamlessly integrated into environmental projects Includes real world case studies that provide readers with practical insights into successful biomass applications Explores the synthesis of advanced nanomaterials from biomass and their applications in environmental remediation

Processing of Biomass Waste Angana Sarkar, Ulla Lassi, 2024-04-25 Processing of Biomass Waste Technological Upgradation and Advancement focuses on the exploitation of various waste management technologies and their associated process microbial chemical physical as tools to simultaneously generate value during treatment processes including degradation detoxification stabilization toxic and hazardous contaminants The book explores wastes as a veritable resource for wealth creation with particular focus on resources recoverable from diverse wastes using special intervention of biotechnological tools Other sections highlight recent technologies of waste bioprocessing in biorefinery approaches and

enlighten on different approaches The book encompasses advanced and updated information as well as future directions for young researchers and scientists who are working in the field of waste management with a focus on sustainable value generation Includes cutting edge technologies in waste bioprocessing Focuses on applications of molecular biotechnological tools in waste bioprocessing Provides natural and eco friendly solutions to deal with the problem of pollution aiming value generation Details underlying mechanisms of waste bioprocessing approaches that cover microbes for the simultaneous value generation and removal of emerging contaminants Includes field studies on the application of biorefinery approach for eco restoration of contaminated sites Presents recent advances and challenges in waste bioprocessing research and applications for sustainable development

Water Matters Abhijit Mukherjee, 2024-09-05 *Water Matters* Achieving the Sustainable Development Goals presents a compilation of water scenarios and their relationship to multiple facets of life as water forms a nexus with food security and energy resources thereby forming one of the fundamental pillars of sustainable development The thematic topics focus on studies of achieving individual sustainable development goals primarily on safe and sustainable drinking water availability the role of water in sanitation transboundary water and water in the ecosystem Each chapter presents a case study to enable a holistic review of the topic and provide insight for further research *Water Matters* Achieving the Sustainable Development Goals integrates the knowledge on global scale water reviews to local scale case studies ideal for hydrologists hydrogeologists and water managers in environmental and Earth sciences Provides interdisciplinary content that bridges the knowledge from water availability to sustainability through reviews of current technologies for clean water and water security Includes global and regional reviews and case studies building a bridge between broad reviews of water related issues by domain experts as well as detailed case studies Identifies pathways for transforming water knowledge to achieve sustainable development goals to policy and governance of water food and energy security and sustainability

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

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