

Soil Biodiversity For Agricultural Sustainability

Mirza Hasanuzzaman

Managing soil biodiversity for agricultural sustainability Clive Edward Pankhurst, 1998

National Workshop on R&D Needs for Managing Soil Biodiversity for Agricultural Sustainability, 1998

Agricultural Sustainability Saroja Raman, 2024-11-01 Take a balanced look at ways to ensure food security and to work to erase hunger around the world Agriculture is the most aggressively managed ecosystem. Agricultural Sustainability: Principles, Processes, and Prospects provides a comprehensive examination of all facets of agricultural sustainability, beginning with the history of the evolution of the concept to the present. Challenges to sustainability are clearly presented along with practical strategies to counter prospective problems. This vital resource considers options for the future, as well as reviewing past approaches for their value in today's world. When one considers that the alternative to agricultural sustainability is the collapse of the world's food systems, it is understood that compromise is impossible. Agricultural Sustainability takes a holistic approach to the issues that are involved in making agriculture ecologically sound, economically viable, and socially responsible around the world. The book is divided into three parts. Part One clarifies the concept of agricultural sustainability, bringing a rational and balanced view of the core elements. Part Two discusses ways to promote sustainability in the world, including practical scientific and technological processes for improving yields while ensuring food security for future generations. Part Three peers into future decades, reviewing the vision documents of international agencies, their perceptions and expectations for the years ahead, and present dysfunctional aspects in the current food system. The book is extensively referenced and includes figures and charts to clearly explain data. The book examines: the historic evolution of the concept of agricultural sustainability the combined effects of a multiplicity of agricultural systems concepts for validating the sustainability of a production system the role of natural capital in production the role of science and technology in sustainable use managing land, water, biodiversity, and energy quantitative approaches to measuring agricultural sustainability the current status of agriculture and predictions for its growth in the coming decades case studies of agricultural growth from India and China problems and possibilities of creating a hunger-free world by the end of this century Agricultural Sustainability is crucial, enlightening reading for field workers in NGOs and agricultural extensions; personnel in local, national, and international developmental organizations; and educators and students of sustainable agricultural production, food security, rural development, environmental science, and the conservation of natural resources.

State of knowledge of soil biodiversity - Status, challenges and potentialities. Summary for policy makers Food and Agriculture Organization of the United Nations ,The Intergovernmental Technical Panel on Soils,Global Soil Biodiversity Initiative,Secretariat of the Convention on Biological Diversity,European Commission,2020-11-04 There is increasing attention on the importance of biodiversity for food security and nutrition, especially above-ground biodiversity such as plants and animals. However, less attention is being paid to the biodiversity beneath our feet, soil biodiversity, which drives many processes that produce food or purify soil and water. This summary for policy makers presents the key findings of the main report and is the result of an inclusive process involving more than 300 scientists from around the world under the auspices of the FAO's Global Soil Partnership and its Intergovernmental Technical Panel on Soils, the Convention on Biological Diversity, the Global Soil Biodiversity Initiative and the European Commission. The summary for policy makers presents concisely the state of knowledge on soil biodiversity, the threats to it and the solutions that soil biodiversity can provide to problems in different fields. This report is a valuable contribution to raising awareness of the importance of soil biodiversity and highlighting its role in finding solutions to today's global threats.

Biodiversity in Agriculture Kodoth Prabhakaran Nair,2023-10-10 This book begins with the principal subject of biodiversity in agriculture. The onslaught of highly soil extractive chemical farming, euphemistically called the “green revolution”, has taken a heavy toll on soil biodiversity, hence, soil sustenance. Agrobiodiversity is a key resource for humanity. All of the food requirements humanity depends on are met by agrobiodiversity. Similarly, fodder fiber, firewood, and many other basic needs of humankind are also met by agrobiodiversity. The book puts forward ideas on how we are to develop a sustainable future, to provide a healthy and thriving environment for humanity by protecting, conserving, and augmenting agrobiodiversity. The pedosphere, the outermost layer of the Earth, composed of soil and subject to soil formation processes, is an integral component of biosphere, lying on the interface of the atmosphere, hydrosphere, and lithosphere and a lot more complex in its physicochemical and biological characteristics and functioning and quite distinguishable from that of the above soil-surface terrestrial and aquatic ecosystems. The biotic component of the pedosphere comprises a rich biodiversity of living species, dominated by microorganisms. This book considers and discusses the influences of soil formation processes. This book will be of interest to those engaged in researching biodiversity, agriculture, and crop science.

Biodiversity In Agricultural Production Systems Gero Benckiser,Sylvia Schnell,2006-07-19 While modern science has always recognized the central role that biodiversity plays in the ecological processes that maintain the Earth's equilibrium, our increasing knowledge of nature has deepened our appreciation of this principle. Consequently, those involved with implementing and maintaining sustainable agriculture systems have begun to take a

Sustainable Agriculture and the Environment Muhammad Farooq,Nirmali Gogoi,Michele Pisante,2023-04-14

Sustainable Agriculture and the Environment describes the relationship of agriculture, society, nature and the environment, sustainable agriculture and sustainable development goals, management of biophysical resources for sustainable food and environment, traditional knowledge and innovative options, and social and policy aspects of sustainable agriculture. The book presents both environmental and economic principles, helping readers in the development and application of robust policy and good institutional systems that execute on sustainable agriculture practices for a healthy environment and to combat climate resilience. - Includes case studies that provide real-world insights - Relates traditional knowledge and innovation, maximizing the potential from both - Reinforces our understanding of the role of sustainable agriculture in developing environmentally sustainable and profitable food systems

Plant Growth-Promoting Microorganisms for Sustainable Agricultural Production Everlon Cid Rigobelo, Saveetha Kandasamy, Duraisamy Saravanakumar, 2022-04-18

Agronomic Crops Mirza Hasanuzzaman, 2019-11-23 Agronomic crops have provided food, beverages, fodder, fuel, medicine and industrial raw materials since the beginning of human civilization. More recently, agronomic crops have been cultivated using scientific rather than traditional methods. However, in the current era of climate change, agronomic crops are suffering from different environmental stresses that result in substantial yield loss. To meet the food demands of the ever-increasing global population, new technologies and management practices are being adopted to boost yields and maintain productivity under both normal and adverse conditions. Further, in the context of sustainable agronomic crop production, scientists are adopting new approaches, such as varietal development, soil management, nutrient and water management, and pest management. Researchers have also made remarkable advances in developing stress tolerance in crops. However, the search for appropriate solutions for optimal production to meet the increasing food demand is still ongoing. Although there are several publications on the recent advances in these areas, there are few comprehensive resources available covering all of the recent topics. This timely book examines all aspects of production technologies, management practices and stress tolerance of agronomic crops.

Sustainable Agroecosystems - Principles and Practices, 2025-03-19 In an era where global agriculture faces unprecedented challenges, Sustainable Agroecosystems - Principles and Practices is a comprehensive guide to fostering resilience and sustainability in farming systems. This book explores innovative strategies and practices designed to enhance soil health, optimize nutrient and water management, and integrate ecological and technological advancements. By addressing critical topics such as conservation agriculture, agroecological practices, precision nitrogen management, and biological pest control, this book equips researchers, practitioners, and policymakers with the tools and knowledge needed to transform agricultural landscapes. Special emphasis is placed on fostering environmental resilience, resource efficiency, and the adoption of eco-friendly solutions that align with the principles of the circular economy. Readers will benefit from the

book's multidisciplinary approach, which bridges traditional and modern practices to meet the demands of sustainable agriculture. Whether you are a seasoned academic, an agricultural innovator, or a policymaker seeking actionable insights, this book provides a rich repository of knowledge and inspiration for achieving sustainable agricultural development worldwide.

Cover Crops and Sustainable Agriculture Rafiq Islam, Bradford Sherman, 2021-06-16 This book will not serve as the encyclopedia of cover crop management, but it's close. The benefits of a wide range of individual cover crops and blends/mixes for specific agronomic crop rotations and geographic locations are included. Descriptions, photographs, and illustrations show how cover crops look in the field, including plant height, leaf architecture, and rooting patterns. Long term benefits are described for soil health, soil structure, water quality, nutrient contributions, soil biodiversity, air quality and climate change. In addition to the whys of cover crop use, the book includes details on the hows: how to choose cover crops for specific applications and locations; how (and when) to plant; how to manage and maintain the cover for maximum benefit; and how and when to terminate. Planting options include: drilling/planting between rows of an agronomic crop at planting time, or when the crop is short (i.e. corn in early June); aerial seeding with an airplane or high-clearance machine shortly before the crop reaches maturity; and drilling/planting immediately after harvest of the agronomic crop. Selected cover crops (blends) can help with pest and disease management. Cover crops are an economic input with an expected return on investment, similar to pesticides and fertilizer. As part of a continuous no-till system, cover crops provide long-term biological, chemical and structural benefits. The resulting increase in soil organic matter means the agronomic crop yields benefit from better water infiltration and water holding capacity, greater availability of nitrogen and other nutrients, deeper rooting, and increased soil microbial activity in the root zone.

Sustainable Agriculture Reviews Eric Lichtfouse, 2017-01-17 This book deals with a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. It is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur from the molecular level to the farming system to the global level at time scales ranging from seconds to centuries. For that, scientists use the system approach that involves studying components and interactions of a whole system to classical, narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable agriculture treats problem sources. Because most actual society issues are now intertwined, global, and fast developing, sustainable agriculture will bring solutions to build a safer world. this book series gathers review articles that analyze current

agricultural issues and knowledge, then proposes alternative solutions. It will therefore help all scientists, decision makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

State of knowledge of soil biodiversity - Status, challenges and potentialities Food and Agriculture Organization of the United Nations ,Global Soil Biodiversity Initiative,Secretariat of the Convention of Biological,European Commission,Intergovernmental Technical Panel on Soils,2020-12-04 There is increasing attention to the importance of biodiversity for food security and nutrition, especially above-ground biodiversity such as plants and animals. However, less attention is being paid to the biodiversity beneath our feet, soil biodiversity, which drives many processes that produce food or purify soil and water. This report is the result of an inclusive process involving more than 300 scientists from around the world under the auspices of the FAO's Global Soil Partnership and its Intergovernmental Technical Panel on Soils, the Convention on Biological Diversity, the Global Soil Biodiversity Initiative, and the European Commission. It presents concisely the state of knowledge on soil biodiversity, the threats to it, and the solutions that soil biodiversity can provide to problems in different fields. It also represents a valuable contribution to raising awareness of the importance of soil biodiversity and highlighting its role in finding solutions to today's global threats.

Reconciling agricultural production with biodiversity conservation Prof. Paolo Bàrberi,Dr Anna-Camilla Moonen,2020-09-22 Covers the theoretical framework underpinning biodiversity conservation in agriculture, as well as key developments in areas such as mapping and modelling diversity Comprehensive review of the range of biodiversity conservation practices such as field margins, hedgerows, agroforestry and improved grassland management Includes case studies of successful biodiversity conservation programmes

Plant-Microbe Interactions for Environmental and Agricultural Sustainability Ashutosh Pandey,Kamlesh Choure,Mostafa El-Sheekh,Ajar Nath Yadav,2025-07-08 This book provides an understanding of the intricate structure of the plant-microbe interface for increasing plant performance in an environmentally sustainable way. Plant microbiomes, often known as the bacteria associated with plants such as rhizospheric, phyllosphere, and entophytic, are essential components of plant life. Importance of plant microbiomes is a trustworthy strategy for sustainability to handle upcoming food shortages and restore soil health. Understanding the relationships between plants and microorganisms is advancing with the concept of profiling plant-associated microbiomes (genome assemblies of all bacteria). Through a number of ways, the microbiota increases the plant's ability to adapt to changing environmental conditions. Therefore, it is crucial to solving the riddle of plant-microbe dynamics using cutting-edge technologies to comprehend the function of metabolites and signal route mechanisms. Recent developments in omics technologies for unravelling plant-microbe dynamic interactions and other novel phytotechnologies for soil health improvement are discussed at length in this volume, as well as novel methods for improved agricultural and environmental sustainability. Teachers, academics, plant biologists, and researchers will all find this book interesting.

Students studying agriculture, microbiology, biotechnology, ecology, soil science, and environmental sciences at the undergraduate and graduate levels can also use the book as supplemental reading material.

Biodiversity Islands: Strategies for Conservation in Human-Dominated Environments Florencia Montagnini, 2022-04-22
This book is intended to provide an overview for the identification and establishment of biodiversity islands. It presents examples and case studies where the biodiversity islands approach is being used in a variety of locations and contexts worldwide. It will contribute to design parameters on appropriate sizing and spatial distribution of biodiversity islands in order to be effective in conservation and regeneration across the landscape, using integrated landscape management approaches. This book is essential given the current worldwide trend of habitat destruction and the need to preserve biodiversity and its values. The chapters are organized in five sections. The first section provides the introduction. Section 2, 3 and 4 discuss the challenges and alternatives of establishment and management, case studies across the globe, safeguarding of the environmental, economic, and social benefits, and the final section offers a conclusion. The contributing authors present views from the academic, the practitioner and the policymaker perspectives, offering alternatives and suggestions for promoting strategies that support biodiversity conservation through intentionally designed frameworks for sustainable forest landscapes. Readers will discover suggestions and concrete examples that can be used by a variety of stakeholders in various settings throughout the world. This book is useful to researchers, farmers, foresters, landowners, land managers, city planners, and policy makers alike.

Agrobiodiversity Management for Food Security Jillian M. Lenné, David Wood, 2011 Agrobiodiversity provides most of our food through our interaction with crops and domestic animals. Future global food security is firmly anchored in sound, science-based management of agrobiodiversity. This book presents key concepts of agrobiodiversity management, critically reviewing important current and emerging issues including agricultural development, crop introduction, practical diversity in farming systems, impact of modern crop varieties and GM crops, conservation, climate change, food sovereignty and policies. It will also address claims and misinformation in the subject based on sound scientific principles.

Agriculturally Important Microbes for Sustainable Agriculture Vijay Singh Meena, Pankaj Kumar Mishra, Jaideep Kumar Bisht, Arunava Pattanayak, 2017-09-20 This book is a compilation of case studies from different countries and covers contemporary with future prospective for sustainable development of agriculture. The book highlights the real-world as well as future generation situations facing the challenges for the twenty first century will be production of sufficient food and highlights the strengths, weaknesses and opportunities, to meet the needs of fast growing population it is imperative to increase agricultural productivity in an environmentally sustainable manner. Due to imbalanced use of chemical fertilizers and agrochemicals has a considerable negative impact on economy and environmental sustainability of nation, for the sustainable alternative means to solve these problems, the efficient utilization of biological agents have been extensively

studied. Naturally existing plant-microbe-environment interactions are utilized in many ways for enhancing plant productivity. A greater understanding of how plants and microbes live together and benefit each other can therefore provide new strategies to improve plant productivity, in most sustainable way. To achieve the objective of sustainable agricultural practices there is a need for understanding both basic and applied aspects of agriculturally important microorganisms. Focus needs to be on transforming agricultural systems from nutrient deficient to nutrient rich soil-plant system. This book is split into two parts, with an aim to provide comprehensive description and highlight a holistic approach. It elucidated various mechanisms of nutrients solubilisation and its importance in enhancement of plant growth, nutrient content, yield of various crops and vegetables as well as soil fertility and health. Unit-1 in this book explains the importance of soil microbes in sustainable crop production. It contains chapters detailing the role and mechanism of action of soil microbes which enhances the productivity via various bio-chemical and molecular channels. In unit-2 the role of microbes in plant protection is elaborated. With the help of case studies of food crops, multiple ways in which soil microbes help in fighting and preventing plant diseases is explained. With the given content and layout book will be an all-inclusive collection of information, which will be useful for students, academicians, researchers working in the field of rhizospheric mechanisms, agricultural microbiology, soil microbiology, biotechnology, agronomy and sustainable agriculture and also for policy makers in the area of food security and sustainable agriculture.

Applied Agricultural Practices for Mitigating Climate Change [Volume 2] Rohitashw Kumar, Vijay P Singh, Deepak Jhajharia, Rasoul Mirabbasi, 2019-11-25 Conservation agriculture is a sustainable production model that not only optimizes crop yields, but also reaps economic and environmental benefits as well. The adoption of successful conservation agriculture methods has resulted in energy savings, higher organic matter content and biotic activity in soil, increased crop-water availability and thus resilience to drought, improved recharge of aquifers, less erosion, and reduced impacts from the weather associated with climate change in general. Applied Agricultural Practices for Mitigating Climate Change examines several important aspects of crop production, such as the use of microorganisms and biofertilizers as well as GIS and Remote Sensing applications. It presents the latest techniques in crop modeling, best practices for irrigation under water deficit conditions, and other approaches for sustainable conservation agriculture that consider the environmental effects of climate change. Features: Examines the effects of climate change on agriculture and the related strategies for mitigation through practical, real-world examples Explores innovative on-farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate-resilient technologies

Achieving sustainable cultivation of oil palm Volume 1 Prof. Alain Rival, 2018-02-09 Experts from key organisations such as the RSPO identify key production trends and challenges Reviews latest developments in conventional and marker-assisted breeding as well as transgenic approaches Assesses ways of assessing and optimising yields through techniques

such as better nutrient and soil management

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