Access Free Taiz And Zeiger Fisiologia Vegetal Pdf Free Copy

Fisiología vegetal Fisiologia e Desenvolvimento Vegetal - 6ed Plant Physiology and Development Fundamentos de Fisiologia Vegetal - 6.ed. Plant Physiology and Development Plant Physiology Fisiologia e Desenvolvimento Vegetal Plant Physiology and Development Plant Physiology Stomatal Function Plant Physiology and Development Plant Physiology and Development Manual de Fisiologia Vegetal Fisiologia vegetal Plant Nutrient Dynamics in Stressful Environments Soil Water Deficit and Physiological Issues in Plants Fundamentos de Fisiologia Vegetal Biostimulants in Plant Science Biological and Pharmacological Activity of Plant Natural Compounds Medicinal Plant Responses to Stressful Conditions New Perspectives in Forage Crops Biostimulants for Crop Production and Sustainable Agriculture Improvement of Quality in Fruits and Vegetables Through Hydroponic Nutrient Management Deficit Irrigation Soil Fertility Mineral nutrition of tropical plants Organic Fertilizers Plant Physiology Nitrogen Fixation Studies in Natural Products Chemistry Advances in Feedstock Conversion Technologies for Alternative Fuels and Bioproducts Advances in Research on Vegetable Production Under a Changing Climate Vol. 2 Plant Ionomics Plant Health Under Biotic

Stress Biological Nitrogen Fixation and Beneficial Plant-Microbe Interaction Heat Stress In Food Grain Crops: Plant Breeding and Omics Research Plant Breeding for Biotic Stress Resistance Stomatal Function Plant Physiology Biocontrol Agents and Secondary Metabolites

Plant Physiology Jul 07 2021
Stomatal Function Aug 27 2020
Advances in Feedstock Conversion Technologies for Alternative Fuels and Bioproducts Apr 03 2021 Advances in Feedstock Conversion Technologies for Alternative Fuels and Bioproducts: New Technologies, Challenges and Opportunities highlights the novel applications of, and new methodologies for, the advancement of biological, biochemical, thermochemical and chemical conversion systems that are required for biofuels production. The book addresses the environmental impact of value added bio-products and agricultural modernization, along with the risk assessment of industrial scaling. The book also stresses the urgency in finding creative, efficient and sustainable solutions for environmentally conscious biofuels, while underlining pertinent technical, environmental, economic, regulatory and social issues. Users will find a basis for technology assessments, current research capability, progress, and advances, as well as the challenges associated with biofuels at an industrial scale, with insights towards forthcoming developments in the industry. Presents a thorough overview of new discoveries in biofuels research and the inherent challenges associated with scale-up Highlights the novel applications and advancements for biological, biochemical, thermochemical and chemical conversion systems that are required for biofuels production Evaluates risk management concerns, addressing the environmental impact of value added bio-products and agricultural modernization, and the risk assessment of industrial scaling

Biocontrol Agents and Secondary Metabolites Jun 25 2020 Biocontrol and Secondary Metabolites: Applications and Immunization for Plant Growth and Protection covers established and updated research on emerging trends in plant defense signaling in, and during, stress phases. Other topics cover growth at interface as a sustainable way of life and the context of human welfare and conservation of fungi as a group of organisms. Further, the book explores induced systemic resistance using biocontrol agents and/or secondary metabolites as a milestone for sustainable agricultural production, thus providing opportunities for the minimization or elimination of the use of fungicides. Presents an overview on mechanisms by which plants protect themselves against herbivory and pathogenic microbes Identifies the use of immunization as a popular and effective alternative to chemical pesticides Explores how these fungi help crop plants in better uptake of soil nutrients, increase soil fertility, produce growth promoting substances, and secrete metabolites that act as bio-pesticides
Plant Physiology Jul 27 2020
Organic Fertilizers Aug 08 2021 This book, Organic Fertilizers - From Basic Concepts to Applied Outcomes, is intended to provide an overview of emerging researchable issues related to the use of organic fertilizers that highlight recent research activities in applied organic fertilizers toward a sustainable agriculture and environment. We aimed to compile information from a diversity of sources into a single volume to give some real examples extending the concepts in organic fertilizers that may stimulate new research ideas and trends in the relevant fields.
Fundamentos de Fisiologia Vegetal Jun 17 2022 Uma introdução acessível à fisiologia vegetal, este livro é em recurso valioso para professores e estudantes que desejam focar nessa área, sem se aprofundar na genética do desenvolvimento.
Studies in Natural Products Chemistry May 05 2021 Studies in Natural Products Chemistry, Volume

77 covers the synthesis or testing and recording of the medicinal properties of natural products, providing cutting-edge accounts of fascinating developments in the isolation, structure elucidation, synthesis, biosynthesis and pharmacology of a diverse array of bioactive natural products. With rapid developments in spectroscopic techniques and accompanying advances in high-throughput screening techniques, it has become possible to isolate and then determine the structures and biological activity of natural products rapidly, thus opening up exciting opportunities in the field of new drug development to the pharmaceutical industry. This book covers the synthesis or testing and recording of the medicinal properties of natural products, providing cutting edge accounts of the fascinating developments in the isolation, structure elucidation, synthesis, biosynthesis and pharmacology of a diverse array of bioactive natural products. Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field of natural products chemistry Presents sources of new pharmacophores

Mineral nutrition of tropical plants Sep 08 2021 This textbook aims to describe the role of minerals in plant life cycle; how these nutrients are absorbed, distributed, stored; what functions each mineral plays and the disorders that their excess or absence may cause. From an agronomic perspective, such knowledge is key to boost crop production and improve its quality, and it also helps understand how to better manage fertilizers and prevent environmental issues. The book has focus on tropical agriculture and its specific demands, providing examples of major crops (such as sugarcane, soybeans, coffee etc), silviculture and pasture species.

Manual de Fisiologia Vegetal Oct 22 2022

Plant Physiology Feb 23 2023 This third edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate

level students. The text contains many new or revised figures and photographs, all in full colour. A website, referenced throughout the text, includes additional study questions, WebTopics (elaborating on selected topics discussed in the text), WebEssays (discussions of cutting edge research topics, written by those who did the work) and additional suggestions for further reading. Key pedagogical changes to the text result in a shorter book. Advanced material from the second edition has been removed and posted at an affiliated Web site, while many new or revised figures and photographs, study questions and a glossary of key terms have been added. Despite the streamlining of the text, the third edition incorporates all the important developments in plant physiology, especially in cell, molecular and developmental biology.

Deficit Irrigation Nov 10 2021 This book focuses on proving that deficit irrigation could play an important role in increasing food production in times of water scarcity. Although the application of deficit irrigation can involve loss in crop productivity, it still secures water to be use in cultivating more lands and producing more food. The following questions are discussed and the authors offer solutions to these problems: Will the production, on a national level, resulting from these new added areas compensate yield losses attained by application of deficit irrigation? Is it possible to use deficit irrigation practice to reduce the applied irrigation water to certain crops that have a surplus in their production, and direct this saved water to cultivate new areas with crops have low self-sufficiency ratios? Under climate change in 2030, would deficit irrigation practice have the same role it plays under the current conditions? This book will appeal to students and researchers involved with water scarcity and food security.

Soil Water Deficit and Physiological Issues in Plants Jul 19 2022 This book explores the impact of soil water deficiency on various aspects of physiological processes in plants. The book explains the

effects under soil water deficit condition such as lowering of plant water content, disturbance in carbon metabolism such in photosynthesis, photorespiration and respiration as well as effects of soil water deficit on nitrogen metabolism. The book also educates the readers about, mineral nutrition under soil water deficit condition and roles of different nutrient to overcome water deficit. Changes in growth and development pattern of plant under soil water deficit condition and effects on growth and development are elaborated. This book is of interest to teachers, researchers, scientists in botany and agriculture. Also the book serves as additional reading material for undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental sciences. National and international agricultural scientists, policy makers will also find this to be a useful read. The in depth description of the major physiological issues in plants under soil water deficit that are presented in this book will help breeders tailoring crops for desirable physiological survival traits in the face of increasing soil water deficit. This book is an impactful addition to the library of any faculty members, researchers, agricultural policy planner, post graduate or student studying in plant physiology, biochemistry, microbiology and other subjects related to crop husbandry.

Fisiologia e Desenvolvimento Vegetal Apr 27 2023 Leitores de edições anteriores desta obra perceberão uma novidade significativa já na capa da presente edição: o título foi alterado de Fisiologia vegetal para Fisiologia e desenvolvimento vegetal, além do acréscimo de dois organizadores. O novo título reflete uma reorganização importante da Unidade III, Crescimento e Desenvolvimento: em vez de capítulos separados sobre estrutura e função de hormônios e fotorreceptores, suas interações são agora descritas no contexto do ciclo de vida vegetal. Com a autoridade e o rigor científico de sempre, a obra continua trazendo os recentes avanços na área e introduzindo melhorias pedagógicas solicitadas por leitores, o que torna os conteúdos mais acessíveis e atraentes ao público interessado.

Fisiología vegetal Nov 03 2023 Se trata de la primera versión en castellano de la gran obra Plant Physiology (third edition), uno de los mejores libros de fisiología vegetal, referente imprescindible para investigadores y estudiantes, que en esta edicion se presenta en dos volumenes y CD Rom
Stomatal Function Jan 25 2023
Fundamentos de Fisiologia Vegetal - 6.ed. Jul 31 2023 Destinado a quem busca uma introdução acessível à área, Fundamentos de fisiologia vegetal apresenta o alto padrão de precisão científica e a riqueza pedagógica pelos quais o popular Fisiologia e desenvolvimento vegetal, dos mesmos autores, é conhecido, mas em formato conciso, constituindo-se em recurso valioso para professores e estudantes que desejam focar na fisiologia vegetal básica, sem se aprofundar na genética do desenvolvimento.
Biological Nitrogen Fixation and Beneficial Plant-Microbe Interaction Nov 30 2020 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 comercializing 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.
Soil Fertility Oct 10 2021 Soil Fertility book presents nine chapters written by renowned soil fertility

experts from Africa, Asia and South America. The book is divided into two sections. Section 1, Biological Processes and Integration of Inorganic and Organic Fertilizers for Soil Fertility Improvement, examines biological processes that can enhance the soil fertility. It discusses the use of both organic and inorganic fertilizers and their integration in improving soil fertility. The second section, Improving Fertilizer Recommendation and Efficiency, looks at the state-of-the-art in leaf sampling and analysis. Proper leaf sampling and standardized methods of analysis are important steps in providing good recommendations.

Plant Nutrient Dynamics in Stressful Environments Aug 20 2022 (This book is a printed edition of the Special Issue "Plant Nutrient Dynamics in Stressful Environments" that was published in Agriculture

Plant Ionomics Jan 30 2021 A thoroughly up-to-date exploration of nutrient uptake in plants In Plant Ionomics: Sensing, Signaling, and Regulation, accomplished botanists and researchers Dr. Vijay Singh and Dr Manzer Siddiqui deliver an up-to-date discussion of the sensing, signaling, and regulation of nutrient uptake in plants under a variety of conditions. The book offers an accessible and easy-to-use reference for researchers with an interest in plant ionomics, combining the latest research from leading laboratories around the globe. The authors provide coverage of a variety of critical topics, including plant and soil nutrient stoichiometry, nutrient management and stress tolerance in crops, and the relationship between agricultural production and nutrient applications. Readers will also find: A thorough introduction to nutrient regulation and abiotic stress tolerance in plants In-depth discussions of nutrient uptake and transport in plants and the role of nutrients in ROS metabolism Practical explorations of nutrient and sugar signaling and associated gene networks in plants Extensive treatments of the role of nutrients in plant–microbe interactions and nutrient-use efficiency in plants

Perfect for students, researchers, academics, and scientists with an interest in plant nutrition, Plant Ionomics: Sensing, Signaling, and Regulation will also earn a place in the libraries of professionals in the agriculture and pharmaceutical industries.

Medicinal Plant Responses to Stressful Conditions Mar 15 2022 Medicinal Plant Responses to Stressful Conditions discusses the effects of multiple biotic and abiotic stressors on medicinal plants. It features information on biochemical, molecular and physiological strategies used to mitigate or alleviate detrimental effects of biotic and abiotic stressors. The book contains chapters featuring medicinal plants of importance covering subjects including genomics, functional genomics, metabolomics, phenomics, proteomics and transcriptomics under biotic and abiotic stress of medicinal plants and their molecular responses. It suggests exogenous application of different types of stimulants to enhance medicinal plant production in such conditions. Features: Details all aspects of biotic and abiotic stressors in various important medicinal plant species. Chapters cover evidence-based approaches in the diagnosis and management of medicinal plants under stressful conditions. Includes information on ways to mitigate effects from biotic stress (diseases and pests) or abiotic stress (high salinity, drought, temperature extremes, waterlogging, wind, high light intensity, UV radiation, heavy metals and mineral deficiencies). A volume in the Exploring Medicinal Plants series, this book is an essential resource for plant scientists, botanists, environmental scientists and anyone with an interest in herbal medicine.

Heat Stress In Food Grain Crops: Plant Breeding and Omics Research Oct 29 2020 Heat Stress In Food Grain Crops: Plant Breeding and Omics Research is a timely compilation of advanced research on heat stress affecting crop yield, plant growth & development of common food grain and cereal crops. Chapters in the book cover several aspects of crop science including the identification of

potential gene donors for heat tolerance, physiological mechanisms of adaptation to heat stress, the use of conventional and modern tools of breeding for imparting tolerance against terminal temperature stress and precise mapping of heat tolerant QTLs through biparental and genome wide association mapping. The use of genomics and phenomics methods is focused on through chapters dedicated to important crops such as groundnut, pearl millet, maize, chickpea, mungbean and wheat. Authors of the respective chapters explain the importance of harnessing a diverse crop genepool for sustaining crop production under conditions of increasing heat stress. Readers will be able to understand the relevance of functional genomics in elucidating candidate genes and their regulatory functions contributing to heat tolerance

Plant Breeding for Biotic Stress Resistance Sep 28 2020 Experience shows that biotic stresses occur with different levels of intensity in nearly all agricultural areas around the world. The occurrence of insects, weeds and diseases caused by fungi, bacteria or viruses may not be relevant in a specific year but they usually harm yield in most years. Global warming has shifted the paradigm of biotic stresses in most growing areas, especially in the tropical countries, sparking intense discussions in scientific forums. This book was written with the idea of collecting in a single publication the most recent advances and discoveries concerning breeding for biotic stresses, covering all major classes of biotic challenges to agriculture and food production. Accordingly, it presents the state-of-the-art in plant stresses caused by all microorganisms, weeds and insects and how to breed for them. Complementing Plant Breeding for Abiotic Stress Tolerance, this book was written for scientists and students interested in learning how to breed for biotic stress scenarios, allowing them to develop a greater understanding of the basic mechanisms of resistance to biotic stresses and develop resistant cultivars.

Plant Physiology and Development Nov 22 2022 Published by Sinauer Associates, an imprint of

Oxford University Press. Throughout its twenty-two year history, the authors of Plant Physiology and Development have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters. This has made Plant Physiology and Development the most authoritative, comprehensive, and widely-used upper-division plant biology textbook.

Plant Physiology May 29 2023 This fifth edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students. Many new or revised figures and photographs, study questions and a glossary of key terms have been added.

Plant Physiology and Development Mar 27 2023

Plant Health Under Biotic Stress Jan 01 2021 The current scenario of increasing sensitivity towards the sustainable agriculture has given a large space to extensively utilize natural resources that are environmental friendly and are a good replacement of chemicals in agriculture. Application of organic additives in the sustainable disease management can provide new insight in sustenance of plant productivity along with improved host stress tolerance. In the present book we have focussed upon a range of organic strategies to control plant pathogens of wide spectrum in addition to maintaining robust plant health. A detailed account on the application of organic additives has been discussed, irrespective of their origin and nature. In addition, the methods of utilising these organic supplements in the management of plant diseases and promotion of plant yield in more economic way have also been presented with reference to developing, underdeveloped and developed countries. The book has included the works of eminent scholars from across the world thus flashing light on the key literature related to application of organic matters including phytoextracts, chopped leaves, composted organic

manures and liquid manures in eco-friendly agriculture. The mechanisms underlying the effectiveness of these organic amendments in promoting plant health has also been presented and discussed in understandable ways.

Advances in Research on Vegetable Production Under a Changing Climate Vol. 2 Mar 03 2021 This second volume on the topic will be extremely useful for the researchers and postgraduate students working on vegetable crops with a special focus on climate change. Today, the entire world is suffering from global warming and its consequent, climate change. This has emerged as the most prominent global environmental issue and there is an urgent need to mitigate its impact on agriculture. Over the past 20 years South Asia has had a robust economic growth, yet it is home to more than one fourth of the world's hunger and 40% of the world's malnourished children and women. Persistent climatic variability, which results in frequent drought and flood, is among the major reasons for this phenomenon. Vegetables are in general more succulent (have 90% water) and more sensitive to climatic vagaries and sudden changes in temperature, as well as irregular precipitation at any phase of crop growing, can affect the normal growth, flowering, pollination, fruit setting, fruit development and fruit ripening which eventually decreases the yield. The irregular precipitation also causes the soil salinity and is a major challenge in many vegetable growing areas. To mitigate the harmful impact of climatic change there is an urgent need to develop adequate adaptation strategies for adverse effect of climate change and preference should be given to the development of heat, cold, drought, flood and salinity stress tolerant genotypes along with climate proofing through conventional and non-conventional breeding techniques, as well as exploiting the beneficial effects of CO2 enhancement on crop growth and yield. Available evidence shows that there is high probability of increase in the frequency and intensity of climate related natural hazards due to climate change and hence increase the

potential threat due to climate change related natural disasters in the world. At present protected cultivation and grafted seedlings are also popularizing among vegetable growers because of the huge scope as well as, molecular breeding, emerging insect-pests & diseases and postharvest quality of vegetables under this climate change scenario. Moreover, underexploited vegetables, perennial vegetable and tuber crops have a more tolerant ability to climate vagaries compare to major vegetables which are also discussed in this book.

Improvement of Quality in Fruits and Vegetables Through Hydroponic Nutrient Management Dec 12 2021 The book Potassium - Improvement of Quality in Fruits and Vegetables Through Hydroponic Nutrient Management provides useful information regarding potassium nutrition management in hydroponic cultivation, which will help in producing quality horticultural crops. The first few chapters describe the role of potassium nutrition in plants, its interaction with other nutrients, its source fertilizers, the role in postharvest produce qualities, and human nutrition. Potassium fertilizer management, its metabolism in plants, and cultivation techniques of fruits and leafy vegetables are also included in the middle section. The final chapter illustrates the software development for the calculation of hydroponic nutrients including potassium for easy management of cultural solution. As a whole, this book covers several major aspects on the topic for making it a complete and useful resource.

Fisiologia vegetal Sep 20 2022 Células vegetais. Energia e enzimas. A água e as células vegetais. Balanço hídrico das plantas. Nutrição mineral. Transporte de solutos. Fotossíntese: as reações luminosas. Fotossíntese: reações de carboxilação. Fotossíntese: considerações fisiológicas e ecológicas. Translocação no floema. Respiração e metabolismo de lipídeos. Assimilação de nutrientes minerais. Metabólitos secundários e defesa vegetal. Expressão gênica e transdução de sinais. Paredes

celulares: estrutura, biogênese e expansão. Crescimento e desenvolvimento. O fitocromo e o controle do desenvolvimento das plantas pela luz. Respostas á luz azul: movimentos estomáticos e morfogênese. Auxina: o hormônio de crescimento. Giberlinas: reguladores da altura das plantas e da germinação de sementes. Citocininas: reguladores da divisão celular. Etileno: o hormônio gasoso. Ácido abscísico: um sinal para maturação de semente e antiestresse. Brassinosteróides. O controle do florescimento; Fisiologia do estresse.

Plant Physiology and Development Jun 29 2023 This sixth edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students. Many new or revised figures and photographs, study questions and a glossary of key terms have been added.

Biostimulants in Plant Science May 17 2022 Natural-based substances, ‘plant biostimulants’, have been considered as environmentally friendly alternatives to agrichemicals. Biostimulants may comprise microbial inoculants, humic acids, fulvic acids, seaweed extracts, etc. These biostimulants have biopesticide and biostimulant utilities. Elucidations on direct or microbially mediated functions of biostimulants are presented in this book to illustrate fundamental principles and recent applications underlying this technology. This book has encompassed a cross-section of topics on different concepts to describe effective strategies by using these substances and/or beneficial microorganisms within sustainable agroecosystems. I sincerely hope that the information provided adequately reflects the objectives of this compilation. “One of the first conditions of happiness is that the link between man and nature shall not be broken.” Leo Tolstoy

Biological and Pharmacological Activity of Plant Natural Compounds Apr 15 2022 Phytotherapy is probably the oldest form of medicine; however, it represents a new therapeutic tool for healthcare

workers. Indeed plants are an infinite source of novel molecules, with countless possible combinations. This collection of articles (a Special Issue from Molecules) brings together the most up-to-date studies on the use of plant-derived compounds, ranging from their anti-inflammatory, antioxidant, and anticancer effects to the revision of the prominent literature.

Plant Physiology and Development Sep 01 2023 Plant Physiology and Development incorporates the latest advances in plant biology, making Plant Physiology the most authoritative and widely used upper-division plant biology textbook. Up to date, comprehensive, and meticulously illustrated, the improved integration of developmental material throughout the text ensures that Plant Physiology and Development provides the best educational foundation possible for the next generation of plant biologists. This new, updated edition includes current information to improve understanding while maintaining the core structure of the book. Figures have been revised and simplified wherever possible. To eliminate redundancy, stomatal function (Chapter 10 in the previous edition) has been reassigned to other chapters. In addition, a series of feature boxes related to climate change are also included in this edition. An enhanced ebook with embedded self-assessment, Web Topics and Web Essays and Study Questions is available with this edition.

Plant Physiology and Development Dec 24 2022

New Perspectives in Forage Crops Feb 11 2022 In livestock management, the production of forage plants is undoubtedly the most efficient way to produce products of animal origin with quality and economic viability. We hope that the readers of the book "New Perspectives in Forage Crops" will have a good reading and appreciate the information provided on forage production, since the book draws on the expertise of different specialists of the area, who discuss the following aspects: fertilization, semiarid region production, forage species selection, nitrogen fixation, grasses, legumes,

cacti, drought, etc. The authors of the book are of different nationalities and provide important information and diverse perspectives on the subject of forage farming.
Fisiologia e Desenvolvimento Vegetal - 6ed Oct 02 2023 Leitores de edições anteriores desta obra perceberão uma novidade significativa já na capa da presente edição: o título foi alterado de Fisiologia vegetal para Fisiologia e desenvolvimento vegetal, além do acréscimo de dois organizadores. O novo título reflete uma reorganização importante da Unidade III, Crescimento e Desenvolvimento: em vez de capítulos separados sobre estrutura e função de hormônios e fotorreceptores, suas interações são agora descritas no contexto do ciclo de vida vegetal. Com a autoridade e o rigor científico de sempre, a obra continua trazendo os recentes avanços na área e introduzindo melhorias pedagógicas solicitadas por leitores, o que torna os conteúdos mais acessíveis e atraentes ao público interessado.
Nitrogen Fixation Jun 05 2021 Biological nitrogen fixation (BNF), the process by which gaseous N2 is converted into ammonia (NH3) via the enzyme nitrogenase, is crucial for the availability of nitrogen (N) in the terrestrial ecosystem. Some bacteria have the remarkable capacity to fix atmospheric nitrogen to ammonia under ambient conditions, a reaction only mimicked on an industrial scale by a chemical process. This microbiological process converts atmospheric nitrogen into a plant-usable form, thus decreasing the need to use chemical fertilizers in crop production. Chapters in this volume cover different aspects of this fantastic phenomenon, including biofertilizer, organic nitrogen in agricultural systems, nitrogen fertilization for sustainable crop production, and others. This book is designed for researchers, students and general readers.
Biostimulants for Crop Production and Sustainable Agriculture Jan 13 2022 Agricultural biostimulants are a group of substances or microorganisms, based on natural resources, that are applied to plants or soils to improve nutrient uptake and plant growth, and provide better tolerance to various stresses.

Their function is to stimulate the natural processes of plants, or to enrich the soil microbiome to improve plant growth, nutrition, abiotic and/or biotic stress tolerance, yield and quality of crop plants. Interest in plant biostimulants has been on the rise over the past 10 years, driven by the growing interest of researchers and farmers in environmentally-friendly tools for improved crop performance. Improved crop production technologies are urgently needed to meet the growing demand for food for the ever-increasing global population by addressing the impacts of changing climate on agriculture. This book is of interest to researchers in agriculture, agronomy, crop and plant science, soil science and environmental science.

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