

Humic Substances in Soil and
Crop Sciences: Selected
Readings : Proceedings of a
Symposium Cosponsored by
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Humic Substances In Soil Crop Sciences

Mohammad Pessarakli



Humic Substances In Soil Crop Sciences:

Humic Substances in Soil and Crop Sciences International Humic Substances Society, 1990 Conversion factors of SI and non SI units An introduction to soil humic substances Variations between humic substances isolated from soils stream waters and groundwaters as revealed by ¹³C NMR spectroscopy Synthesis and degradation of natural and synthetic humic material in soil Selected methods for the characterization of soil humic substances Nitrogen in humic substances as related to soil fertility Roles of organic matter minerals and moisture in sorption of nonionic compounds and pesticides by soil Effects of humic substances on plant growth Ecological aspects of soil organic matter in tropical land use Humic and fulvic acid fractions from sewage sludges and sludge amended soils Application of nuclear magnetic resonance spectroscopy to whole soils Humic substances in soil and crop sciences an overview

Humic substances in soil and crop sciences Patrick MacCarthy, 1990

Humic Substances in Soil and Crop Sciences: Selected Readings International Humic Substances Society, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, 1990

Humic Products Kim Billingham, 2015-05-25 A range of products often referred to as alternative fertilisers are marketed with numerous claims relating to soil health and improved plant growth However there is often an absence of evidence about the veracity of the claims and the effectiveness of these products Producers and consumers alike are left to rely on the advertised promises which come with little proof One common group of alternative fertilisers are the humic products that are often sold as soil amendments with or without accompanying plant nutrients More than 200 humic products are currently manufactured and sold in Australia Thousands more are available for purchase via overseas websites Is there a place for humic products in Australian agriculture Do they have the potential to realise at least some of the advertised claims or are these benefits merely presumption on the part of manufacturers This technical bulletin Humic products Potential or presumption for agriculture is the first in a series that will cover a range of alternative fertiliser products Written and produced by NSW Department of Primary Industries these reports ask two basic questions Can the product work Given our current understanding of the physical chemical and biological mechanisms that interact in soil plant ecosystems can we explain how the product functions Does the product work Is there sufficient evidence from independent trials that the product will work under field conditions This publication is written primarily for agronomists soil scientists consultants and other farm advisors However the readable style explanations and diagrams provided by the author Kim Billingham make it accessible for others with a more rudimentary understanding of the soil and plant sciences A brief history of humus will engage readers from both conventional and more alternative philosophies as we all work towards farming in a more sustainable manner

Humic Substances in Soil and Crop Sciences P. MacCarthy, C. E. Clapp, R. L. Malcolm, P. R. Bloom, 1994

Humic Substances in Soil and Crop Sciences, 1990

Molecular Characterization of Humic Substances and Regulatory Processes Activated in Plants, 2nd edition Serenella Nardi, Luciano Pasqualoto Canellas, Andrea Ertani, Jose M Garcia-Mina, Diego

Pizzeghello, Michela Schiavon, 2023-07-18 One of the main challenges of sustainable agriculture is improving food production while reducing significant impact on the soil water and other environmental resources In this context the use of humic substances extracted from different substrates in agricultural practices has been envisioned as a promising nature like and environmental friendly technology to support crop yield and quality Humic substances deriving from chemical and biological transformations of biota materials represent an intrinsic component of soil organic matter SOM consisting of associations of relatively small humic molecules linked together through hydrophobic interactions and hydrogen bonds Because of their distinctive physicochemical features they are used in several industrial and agricultural applications and in remediation technologies for metal contaminated soils Humic substances are of pivotal importance for environmental protection by conditioning soils and improving their stability and resistance to erosion In addition they possess inherent hormone like nature and exhibit biological activity This is often associated with complementary action of soil microbiota and is manifested in their capacity to modulate the transport and bioavailability of nutrients to plants influence root growth and architecture enhance crop yields and regulate the expression of a broad array of genes involved in plant metabolism development and resistance to stress Despite significant efforts to explain the molecular structure of humic substances and its relationship with a plurality of physiological responses and signalling networks triggered in plants several functional aspects still need to be clarified One major issue is that humic substances possess a very complex structure which accounts for their multifaceted biological action Therefore this Research Topic aims to update the knowledge on humic substances by improving the current understanding of their structure and interactions with plants and associated rhizosphere microorganisms thus shining light on the mechanisms and cellular signalling pathways through which humic substances target specific plant metabolic routes and elicit physiological responses Implications of such interactions are expected to be assessed using differential methodological approaches under either small scale trials or field conditions in view of developing advanced and sustainable agriculture technologies aimed at improving crop yield and food quality Biostimulants for Crop Production and Sustainable Agriculture

Mirza Hasanuzzaman, Barbara Hawrylak-Nowak, Tofazzal Islam, Masayuki Fujita, 2022-09-14 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 **Bioactive**

Compounds in Agricultural Soils Lech Wojciech Szajdak, 2016-11-02 This volume looks at the impact that different cropping systems and tillage have on soil's biologically active substances. It considers how phytotoxins accumulate and can inhibit the development of cultivated plants. Coverage explores the continuous cropping of rye, crop rotation, no tillage, and conventional tillage. It offers a comprehensive comparative approach to allelopathic plant-soil interactions. The authors focus on free and bounded biologically active substances such as amino acids, auxins, humic and fulvic acids, transient radicals, and enzymes in light sand soils fertilized with different mineral and organic fertilizers. The chapters address fundamental questions relevant to the environmental challenges we face today and will deal with in the future. The results involve asking basic questions motivated by soil's chemical and biochemical processes. The answers will lead to the improvement of the quality of soil's organic matter, which in turn can lead to increased crop yields. Readers will come to understand the relationship between ecological processes and environmental change on individual levels of biocomplexity as well as on systems in their entirety. The title is ideal for students and teachers for laboratory practical classes. Soil scientists, biochemists, chemists, plant ecophysiologists, Natural Products organic chemists, and other environmental scientists and specialists will also find it useful.

Rhizosphere Dynamics Luther Hammond, James E. Box Jr., 2019-06-04 The AAAS Selected Symposia Series was begun in 1977 to provide a means of more permanently recording and more widely disseminating some of the valuable material which is discussed at the AAAS Annual National Meetings. The volumes in the Series are based on symposia held at the Meetings which address topics of current and continuing significance both within and among the sciences and in the areas in which science and technology have an impact on public policy. The Series format is designed to provide for rapid dissemination of information so the papers are reproduced directly from camera-ready copy. The papers are organized and edited by the symposium arrangers who then become the editors of the various volumes. Most papers published in the Series are original contributions which have not been previously published, although in some cases additional papers from other sources have been added by an editor to provide a more comprehensive view of a particular topic. Symposia may be reports of new research or reviews of established work, particularly work of an interdisciplinary nature, since the AAAS Annual Meetings typically embrace the full range of the sciences and their societal implications.

Soil Organic Matter in Sustainable Agriculture Fred Magdoff, Ray R. Weil, 2004-05-27 Recognition of the importance of soil organic matter (SOM) in soil health and quality is a major part of fostering a holistic preventive approach to agricultural management. Students in agronomy, horticulture, and soil science need a textbook that emphasizes strategies for using SOM management in the prevention of chemical, biological, and physical problems. *Soil Organic Matter in Sustainable Agriculture* gathers key scientific reviews concerning issues that are critical for successful SOM management. This textbook contains evaluations of the types of organic soil constituents, organisms, fresh residues, and well-decomposed substances. It explores the beneficial effects of organic matter on soil and the various practices that enhance SOM. Chapters include an examination of the results of crop

management practices on soil organisms organic matter gains and losses the significance of various SOM fractions and the contributions of fungi and earthworms to soil quality and crop growth Emphasizing the prevention of imbalances that lead to soil and crop problems the text also explores the development of soils suppressive to plant diseases and pests and relates SOM management to the supply of nutrients to crops This book provides the essential scientific background and poses the challenging questions that students need to better understand SOM and develop improved soil and crop management systems

Biophysico-Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems

Nicola Senesi, Baoshan Xing, Pan Ming Huang, 2009-07-23 An up to date resource on natural nonliving organic matter Bringing together world renowned researchers to explore natural nonliving organic matter NOM and its chemical biological and ecological importance Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems offers an integrated view of the dynamics and processes of NOM This multidisciplinary approach allows for a comprehensive treatment encompassing all the formation processes properties reactions environments and analytical techniques associated with the latest research on NOM After briefly outlining the historical background current ideas and future prospects of the study of NOM the coverage examines The formation mechanisms of humic substances Organo clay complexes The effects of organic matter amendment Black carbon in the environment Carbon sequestration and dynamics in soil Biological activities of humic substances Dissolved organic matter Humic substances in the rhizosphere Marine organic matter Organic matter in atmospheric particles In addition to the above topics the coverage includes such relevant analytical techniques as separation technology analytical pyrolysis and soft ionization mass spectrometry nuclear magnetic resonance EPR FTIR Raman UV visible adsorption fluorescence and X ray spectroscopies and thermal analysis Hundreds of illustrations and photographs further illuminate the various chapters An essential resource for both students and professionals in environmental science environmental engineering water science soil science geology and environmental chemistry Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems provides a unique combination of the latest discoveries developments and future prospects in this field

Humic Substances in Soil and

Crop Sciences P. Maccarthy, 1990 **Handbook of Plant and Crop Physiology** Mohammad Pessarakli, 2014-03-21

Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology necessitating a new edition to cover the latest advances in the field Like its predecessors the Third Edition offers a unique complete collection of topics

'Save Soil' by Managing Soil Nutrient Losses, Agronomic Practices and Crop-Microbial Interaction: World Soil Day 2022 Arnab

Majumdar, Debojyoti Moulick, Sudhakar Srivastava, 2024-02-07 Soil is not only a fundamental source for all living organisms but also impacts non living factors water air minerals etc making it an invaluable and finite resource The importance of soil expands from agronomy through to industrialization thus it is crucial to understand the impact of human activity on soil

quality To address several global issues related to pollution food security and health the United Nations promotes the Sustainable Development Goals SDGs with targets to save soil by minimizing nutrient loss and pollution load from the soil Due to increasing anthropogenic pollution load many soil pollution control measures are failing therefore new technologies and eco friendly solutions are needed to balance and restore soil health Soil crop interactions are essential considering the crop yield and productivity under different soil statuses These processes including nutrient release or soil detoxification are mediated by soil inhabiting microbes In fact the intrinsic role of soil parameters including the different classes of soil control soil microbiota which in turn modulate soil nutrient contents and makes these bioavailable Different crops especially cereals are constantly interacting with these soil microbes thus the relationship between soil crops and microbes is complex

Handbook of Soil Science Malcolm E. Sumner, 1999-08-31 The Handbook of Soil Science provides a resource rich in data that gives professional soil scientists agronomists engineers ecologists biologists naturalists and their students a handy reference about the discipline of soil science This handbook serves professionals seeking specific factual reference information Each subsection includes a description of concepts and theories definitions approaches methodologies and procedures tabular data figures and extensive references

The Role of Nonliving Organic Matter in the Earth's Carbon Cycle Richard G. Zepp, Ch. Sonntag, 1995-07-11 Nonliving organic matter NLOM comprises the bulk of the organic carbon stored in the terrestrial biosphere and a major part of the organic carbon in the sea Organic substances which include litter marine detritus dissolved organic matter and soil organic matter have diverse effects on the Earth's biogeochemical processes and serve as a major reservoir of biospheric carbon which can be transformed to carbon dioxide methane and other greenhouse gases Given this broad spectrum of effects efforts to adapt to or perhaps benefit from global change require a better understanding and an ability to predict the role of NLOM in the global environment The overall objective of this volume is to provide experimental and modeling strategies for the assessment of the sensitivity of the global carbon cycle to changes in nonliving organic pools in terrestrial and aquatic ecosystems The discussions in this volume consider how best to characterize and quantify pools and fluxes of NLOM the role of NLOM cycling on a global scale human and climatic perturbations of interactions between NLOM and nutrients and biological chemical and physical processes that control the production and degradation of NLOM with an emphasis on processes that affect the persistence of NLOM in the environment One of the most unique aspects of this volume is that it represents extensive exchanges between leading international scientists from both aquatic and terrestrial backgrounds It will be of particular interest to organic geochemists microbiologists ecologists soil scientists agricultural scientists marine chemists limnologists and modelers Goal of this Dahlem Workshop to devise experimental and modeling strategies for assessment of the sensitivity of the global carbon cycle to changes in nonliving organic pools

Humus Chemistry F. J. Stevenson, 1994-08-16 A reference text focusing on basic organic chemistry and reactions of naturally occurring organic substances in soils Covers pools of organic matter in soils

transformations methods of extraction and fractionation Section two deals primarily with the chemistry of known classes of organic compounds in soils including saccharides lipids and constituents containing nitrogen phosphorus and sulfur Section three is concerned with basic organic chemistry of humic substances followed by the importance of organic matter associations and interactions Contains new chapters on NMR spectroscopy analytical pyrolysis and on chemical structures

Soil Processes and the Carbon Cycle Rattan Lal, John M. Kimble, Ronald F. Follett, Bobby A. Stewart, 1997-11-25 World soils contain about 1500 gigatons of organic carbon This large carbon reserve can increase atmospheric concentrations of CO₂ by soil misuse or mismanagement or it can reverse the greenhouse effect by judicious land use and proper soil management *Soil Processes and the Carbon Cycle* describes soil processes and their effects on the global carbon cycle while relating soil properties to soil quality and potential and actual carbon reserves in the soil In addition this book deals with modeling the carbon cycle in soil and with methods of soil carbon determinations *Plant-Soil Interactions at Low pH: Principles and Management* R.A. Date, N.J. Grundon, G.E. Rayment, M.E. Probert, 2012-12-06 The understanding of plant soil interactions in acid soils is important for improved food production in many parts of the world The context of the book touches on basic and applied aspects of the physics chemistry and biology of acid soils and their effect on growth of plants It contains a large section on management of acid soils for plant food production and on socioeconomic aspects of management of acid soils This is important because a large portion of the world's acid soils occurs in less developed countries *Plant Soil Interactions at Low pH Principles and Management* contains a substantial number of papers including nine invited reviews presented at the Third International Symposium of Plant Soil Interactions at Low pH The major themes include chemistry and physics of acid soils microbial and faunal activity in acid soils mechanisms of acid tolerance of plants selection and breeding of acid tolerant plants diagnosis and correction of acid soil infertility socioeconomic aspects of acid soil management and management systems for agriculture horticulture and forestry on acid soils

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