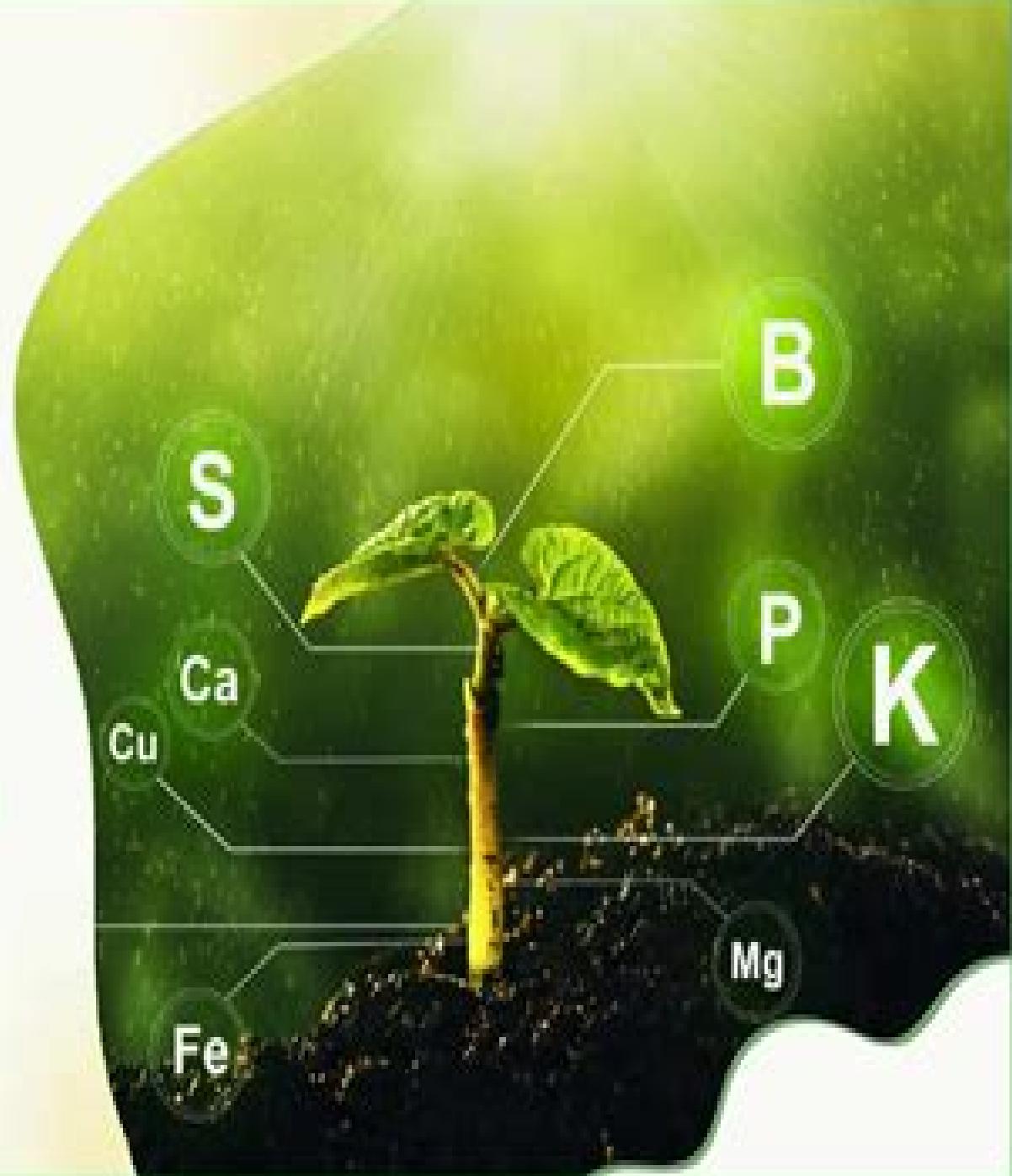


Defining Nutrient Use Efficiency In Responsible Plant Nutrition



Nutrient Use Efficiency From Basics To Advances

A. Hemantaranjan

Nutrient Use Efficiency From Basics To Advances:

Nutrient Use Efficiency: from Basics to Advances Amitava Rakshit, Harikesh Bahadur Singh, Avijit Sen, 2014-12-26

This book addresses in detail multifaceted approaches to boosting nutrient use efficiency NUE that are modified by plant interactions with environmental variables and combine physiological microbial biotechnological and agronomic aspects. Conveying an in depth understanding of the topic will spark the development of new cultivars and strains to induce NUE coupled with best management practices that will immensely benefit agricultural systems safeguarding their soil water and air quality. Written by recognized experts in the field the book is intended to provide students scientists and policymakers with essential insights into holistic approaches to NUE as well as an overview of some successful case studies. In the present understanding of agriculture NUE represents a question of process optimization in response to the increasing fragility of our natural resources base and threats to food grain security across the globe. Further improving nutrient use efficiency is a prerequisite to reducing production costs expanding crop acreage into non competitive marginal lands with low nutrient resources and preventing environmental contamination. The nutrients most commonly limiting plant growth are N P K S and micronutrients like Fe Zn B and Mo. NUE depends on the ability to efficiently take up the nutrient from the soil but also on transport storage mobilization usage within the plant and the environment. A number of approaches can help us to understand NUE as a whole. One involves adopting best crop management practices that take into account root induced rhizosphere processes which play a pivotal role in controlling nutrient dynamics in the soil plant atmosphere continuum. New technologies from basic tools like leaf color charts to sophisticated sensor based systems and laser land leveling can reduce the dependency on laboratory assistance and manual labor. Another approach concerns the development of crop plants through genetic manipulations that allow them to take up and assimilate nutrients more efficiently as well as identifying processes of plant responses to nutrient deficiency stress and exploring natural genetic variation. Though only recently introduced the ability of microbial inoculants to induce NUE is gaining in importance as the loss immobilization release and availability of nutrients are mediated by soil microbial processes.

Recent Advances on Nitrogen Use Efficiency in Crop Plants and Climatic Challenges Hamada AbdElgawad, 2023-08-25

Nitrogen N is a mineral nutrient that is essential for the normal growth and development of plants that is required in the highest quantity. It is an element of nucleic acids, proteins and photosynthetic metabolites therefore crucial for crop growth and metabolic processes. Recently it was estimated that N fertilizers could meet the 48% demand of the world's population. However overuse and misuse of N fertilizers raised environmental concerns associated with N losses by nitrous oxide N₂O emissions, ammonia NH₃ volatilization and nitrate NO₃ leaching. For instance NH₃ is a pollutant in the atmosphere, N₂O is a greenhouse gas that has a warming potential 298 times higher than CO₂ and contributes to ozone depletion, and NO₃ causes eutrophication of water bodies. Agricultural practices account for about 90% of NH₃ and 70% of N₂O anthropogenic emissions worldwide. The efficient use of N chemical

fertilizers can be attained through cultural and agronomic practices Nitrogen use efficiency NUE is an important trait that has been studied for decades in different crops The grain production or economic return from the per unit supply of N fertilizer simply explained the NUE Several definitions were suggested by different researchers NUE can be defined as the product of N uptake efficiency NUpE and N utilization efficiency NUtE An increase in NUE increases the yield biomass quality and quantity of crops N is generally applied as chemical fertilizer to the soil whereas a small amount is added to some crops like grain legumes through the fixation process On the other hand crop plants take N through the root system in the form of nitrate or ammonium which is thereby used in different metabolic processes A number of studies have been conducted to increase the NUE in different crops and it has been indicated that NUE can be improved by agronomic physiological biochemical breeding as well as molecular approaches Nitrogen is the main limiting nutrient after carbon hydrogen and oxygen for the photosynthetic process phyto hormonal and proteomic changes and the growth development of plants to complete their lifecycle Excessive and inefficient use of N fertilizer results in enhanced crop production costs and atmospheric pollution Atmospheric nitrogen 71% in the molecular form is not available for the plants For the world's sustainable food production and atmospheric benefits there is an urgent need to upgrade nitrogen use efficiency in the agricultural farming system Nitrogen losses are too high due to excess amount low plant population poor application methods etc which can go up to 70% of total available nitrogen These losses can be minimized up to 15-30% by adopting improved agronomic approaches such as optimal dosage of nitrogen application of N by using canopy sensors maintaining plant population drip fertigation and legume based intercropping Therefore the major concern of modern days is to save economic resources without sacrificing farm yield as well as the safety of the global environment i.e. greenhouse gas emissions ammonium volatilization and nitrate leaching *Advances in Plant Physiology (Vol.14) A.*

Hemantaranjan, 2013-11-01 In view of changes in the global environment it is important to determine and developing technologies to ameliorate metabolic limitations by biological processes most sensitive to abiotic stress factors warning crop productivity It is reaffirmed that publishing the important Treatise Series has been undertaken with a view to identify the inadequacies under varied environments and to scientifically extend precise and meaningful research so that the significant outcomes including new technologies are judiciously applied for requisite productivity profitability and sustainability of agriculture Besides this meticulous research in some of the very sensible and stirring areas of Plant Physiology Plant Molecular Physiology are indispensably needed for holistic development of agriculture and crop production in different agro climatic zones Ardently this is also to focus upon excellent new ideas ensuring the best science done across the full extent of modern plant biology in general and plant physiology in particular In Volume 14 with inventive applied research attempts have been made to bring together much needed eighteen remarkable review articles distributed in three appropriate major sections of Nutriphysiology and Crop Productivity Plant Responses to Changing Environment and Environmental Stresses

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Advances in Environmental Technologies III Ji Zhao,Aijie Wang,Xin Yong Li,Xiao Yi Wang,2014-06-18 Selected peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection ICEEP 2014 April 26 28 2014 Xi an China

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The ability of plants to utilize nutrients under various environmental constraints is profoundly affected by genetic and physiological factors These essays examine problems related to plant absorption from the perspectives of plant genetics physiology rhizosphere microbiology soil chemistry and agronomy Topics include plant and soil factors that promote efficient utilization of nutrients plant soil interactions and how plants respond to nutrients at the cellular level on a whole plant basis and when subjected to stress Annotation copyrighted by Book News Inc Portland OR

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Nutrient Use Efficiency From Basics To Advances Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nutrient Use Efficiency From Basics To Advances**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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