



# Soil Root Interface

**Norman Uphoff, Andrew S. Ball, Erick  
Fernandes, Hans Herren, Olivier  
Husson, Mark Laing, Cheryl Palm, Jules  
Pretty, Pedro Sanchez, Nteranya  
Sanginga, Janice Thies**

## Soil Root Interface:

The soil-root Interface John Laker Harley, 1981      *The Soil-Root Interface* J. L. Harley, 2013-10-22 The Soil Root Interface contains the proceedings of an international symposium held in Oxford England on March 28 to 31 1978 The first five chapters of this book contain the majority of papers presented at the meeting as well as the descriptions of displayed posters and films Abstracts of other contributions offered by participants but not read at the meeting form the final chapter The first five parts cover topics on nutrient demand and supply at the soil root interface physics and chemistry of the interfacial region biological activities at the interface the interface in relation to environmental stress and disease and the interface in relation to soil function and growth      **The Soil-root Interface** J. L. Harley, 1979      The soil-root interface John Laker ed Harley, Proceedings of an int. symp. held in Oxford Eng. March 2, 1981      **The Soil-root Interface** John Laker Harley, R. Scott Russell, 1979 Nutrient demand and supply at the soil root interface Physics and chemistry of the interfacial region Biological activities at the interface The interface in relation to environmental stress and disease The interface in relation to soil function and growth Abstracts of papers not read in full      *Soil Physical Conditions and Plant Roots* J. Glinski, 2018-01-17 This book is a specialized monograph on soil physical conditions and root system relations It attempts to explain the importance of physical properties of soil by showing how they affect root growth and functions and on the other hand how roots themselves change their environment Emphasis is placed on the interactive effects of soil physical factors An attempt has been made to analyze the possibilities of the root system s modification by both soil and plant management The book is addressed to research workers and advanced students in soil and plant sciences and may also be of interest to agronomists and related specialists      Plant Roots Peter J. Gregory, 2025-08-29 An updated overview of plant root systems covering their development growth interactions with soil breeding and management Plant Roots draws together information from plant and soil literature to illustrate how roots interact with soil both to modify it and to obtain from it the resources required for the whole plant to grow Emphasis is placed on whole plants and root systems with appropriate references to the growing body of literature on plant molecular and cellular levels This newly revised and updated Second Edition maintains its balance between introducing the founding ideas and science underlying the topic while covering the most recent updates underpinned by new scientific methods and understanding The author reviews recent advances in genomics phenomics other omics technologies computer modelling and the study of model plants such as *Arabidopsis thaliana* and rice which have led to major advances in understanding how roots grow and function New crop varieties contributing to increased crop production especially in nutrient poor and or water limited soils are described together with new ways of managing root systems to improve crop performance and efficiency of resource use Sample topics discussed in Plant Roots include The anatomy and growth of primary roots The development and properties of the rhizosphere Heterogeneity of structure nutrient availability and microbial communities experienced in field soils Differences in anatomy

and morphology between different types classes of root and their consequences for activity as absorbers of water and nutrients How crops forests natural plant communities and the resources supporting them might be managed more effectively Plant Roots is an essential source of reference aimed at students and professionals who already have some background knowledge of soils and plants and are seeking to understand cutting edge updates in the field Molecular Environmental Soil Science at the Interfaces in the Earth's Critical Zone Jian-Ming Xu,Pan Ming Huang,2011-01-28

Molecular Environmental Soil Science at the Interfaces in the Earth s Critical Zone presents contributions from the 1st International Symposium of Molecular Environmental Soil Science at the Interfaces in the Earth s Critical Zone held in Hangzhou China It introduces new ideas findings methods and experience on above new and emerging subject areas A broad range of topics are covered the role of mineral colloids in carbon turnover and sequestration and the impact on climate change biogeochemical interfacial reactions and dynamics of vital and toxic elements ecotoxicology of anthropogenic organics environmental nanoparticles and their impacts and ecosystem health The book will be a valuable reference for researchers in soil chemistry environmental chemistry mineralogy microbiology ecology ecotoxicology and physics Jianming Xu is a Professor at the Institute of Soil and Water Resources and Environmental Science Zhejiang University China Pan Ming Huang is a Professor at the Department of Soil Science University of Saskatchewan Canada **Soil Ecotoxicology**

Joseph Tarradellas,Gabriel Bitton,Dominique Rossel,1996-12-23 Soils are receptacles for a wide range of hazardous chemicals generated by human activities Whether or not this contamination is deliberate accurate toxicity assessments are important for health and economic reasons Soil Ecotoxicology discusses the sources fate and transport of hazardous chemicals in soils The fate biodegradation and modeling and the potential impacts of pesticides on soil ecosystems are emphasized and methodologies for performing toxicity assessments are provided *Understanding and improving crop root function* Prof. Peter J. Gregory,2021-01-19 Comprehensive review of key topics in root science including root architecture root growth regulators root anatomy and nutrient acquisition Coverage of root response to both biotic and abiotic variables Discusses the range of techniques to optimize root function from phenotyping to identify desirable root traits and exploiting the genetics of root traits to the use of plant growth promoting rhizobacteria PGPR and arbuscular mycorrhizal fungi AM

*Soils as a Key Component of the Critical Zone 3* Guilhem Bourri ,2019-02-06 This book invites the reader to look differently at two seemingly mundane resources soil and water Water possesses extraordinary properties which form the foundations of life itself Without water there would be no life and without soils no terrestrial life The interaction between soils and water is therefore fundamental to the habitability of Earth s land surface Through in depth analyses and experimentation Soils as a Key Component of the Critical Zone 3 explores the circulation of water in soils Through its properties soil directs the path of water leading it to wet soils or not be absorbed by plants infiltrate or runoff concentrate in certain areas or flood The potentially catastrophic consequences of such floods are often due to the absence or insufficiency

of prevention measures This book thus shows the ways in which the relationship between water life and soils is much more than a simple series of interactions or phenomena at interfaces and in fact constitutes a system with definite properties

**Marschner's Mineral Nutrition of Plants** Zed Rengel, Ismail Cakmak, Philip John White, 2022-12-09 An understanding of the mineral nutrition of plants is of fundamental importance in both basic and applied plant sciences The fourth edition of this book retains the aim of the first in presenting the principles of mineral nutrition in the light of current advances Marschner's Mineral Nutrition of Plants 4th Edition is divided into two parts Nutritional Physiology and Plant Soil Relationships In Part I emphasis is put on uptake and transport of nutrients in plants root shoot interactions role of mineral nutrition in yield formation stress physiology water relations functions of mineral nutrients and contribution of plant nutrition to food nutritional quality disease tolerance and global nutritional security of human populations In view of the increasing interest in plant soil interactions Part II focuses on the effects of external and internal factors on root growth rhizosphere chemistry and biology soil borne ion toxicities and nutrient cycling Now with color figures throughout this book continues to be a valuable reference for plant and soil scientists and undergraduate and graduate students in the fields of plant nutrition nutritional physiology and soil fertility Offers new content on the relationship between climate change soil fertility and crop nutrition Keeps overall structure of previous editions Includes updates in every chapter on new developments ideas and challenges

*Root Methods* A.L. Smit, A.G. Bengough, C. Engels, M. van Noordwijk, S. Pellerin, S.C. van de Geijn, 2000-07-26 A comprehensive review of all modern methods for plant root research both in the field and in the laboratory It covers the effects of environmental interactions with root growth and function focussing in particular on the assessment of root distribution and dynamics It also describes and discusses the processing of root observations analysis and modelling of root growth and architecture root image analysis computer assisted tomography and magnetic resonance imaging Furthermore a survey of the application of isotope techniques in root physiology is given

**Biological Approaches to Sustainable Soil Systems** Norman Uphoff, Andrew S. Ball, Erick Fernandes, Hans Herren, Olivier Husson, Mark Laing, Cheryl Palm, Jules Pretty, Pedro Sanchez, Nteranya Sanginga, Janice Thies, 2006-03-03 Global agriculture is now at the crossroads The Green Revolution of the last century is losing momentum Rates of growth in food production are now declining with land and water resources becoming scarcer while world population continues to grow We need to continue to identify and share the knowledge that will support successful and sustainable

**Advances in Agronomy**, 1998-08-17 Volume 64 contains six comprehensive reviews covering key contemporary topics on crop and soil sciences As always the topics are varied and exemplary of the array of subject matter covered by this long running serial With this latest volume Advances in Agronomy continues to be recognized as a leading reference and as a first rate source of the latest research in agronomy crop science and soil science Cytogenetics and genetics of pearl millet Comprehensive look at advances in ICP emission and ICP spectrometry Cotton growth and nitrogen supply Sources and behavior of arsenic in the soil environment Dryland cropping

intensification methods How plant roots acquire mineral nutrients      **Achieving sustainable turfgrass management** Prof Michael Fidanza, 2023-01-24 Reviews the impact of climate change on the increasing threat of biotic and abiotic stresses to the turfgrass industry as well as the challenge of treating diseased turf in the face of fungicide resistance Considers the development of alternative more sustainable management practices that utilise and or optimise fewer agricultural outputs such as fertilisers pesticides and fuel to power agricultural machinery Provides a selection of case studies that detail the establishment of good turfgrass management and maintenance in a variety of environments golf courses athletic fields sports pitches arid environments      *Biophysico-Chemical Processes of Heavy Metals and Metalloids in Soil Environments* Antonio Violante, Pan Ming Huang, Geoffrey M. Gadd, 2008-02-13 Written by a multidisciplinary group of soil and environmental scientists *Biophysico Chemical Processes of Heavy Metals and Metalloids in Soil Environments* provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments The book covers pollutants speciation mobility bioavailability and toxicity and impacts on development of innovative restoration strategies In addition the development of innovative remediation strategies for polluted soils is covered      *Encyclopedia of Agrophysics* Jan Gliński, Józef Horabik, Jerzy Lipiec, 2011-06-07 This Encyclopedia of Agrophysics will provide up to date information on the physical properties and processes affecting the quality of the environment and plant production It will be a first up volume which will nicely complement the recently published Encyclopedia of Soil Science November 2007 which was published in the same series In a single authoritative volume a collection of about 250 informative articles and ca 400 glossary terms covering all aspects of agrophysics will be presented The authors will be renowned specialists in various aspects in agrophysics from a wide variety of countries Agrophysics is important both for research and practical use not only in agriculture but also in areas like environmental science land reclamation food processing etc Agrophysics is a relatively new interdisciplinary field closely related to Agrochemistry Agrobiology Agroclimatology and Agroecology Nowadays it has been fully accepted as an agricultural and environmental discipline As such this Encyclopedia volume will be an indispensable working tool for scientists and practitioners from different disciplines like agriculture soil science geosciences environmental science geography and engineering      *Nature Farming and Microbial Applications* Hui-lian Xu, Hiroshi Umemura, James F. Parr Jr, 2024-11-01 Produce more abundant high quality crops with the information you ll find in this book Recent concerns over environmental pollution and food quality degradation caused by the excessive use of chemicals have prompted scientists and policymakers to re evaluate modern agricultural processes and search for alternatives that will aid in the production of healthy foods and the protection of our environment *Nature Farming and Microbial Applications* summarizes current research in the field highlighting unique practices such as the use of microbial inoculants and various alternatives to chemical fertilizers and pesticides The principles of nature farming as set forth by Japanese philosopher Mokichi Okada must fulfill these requirements producing safe and nutritious food that promotes good

health providing economic and spiritual benefits to both producers and consumers being sustainable and easily practiced conserving and protecting the environment producing sufficient high quality food for an expanding world population To this end Nature Farming and Microbial Applications addresses issues of concern to organic farmers including soil fertility pest control effective microorganisms photosynthesis transpiration plant water relations stress resistance of growing crops This well referenced volume contains unique and original methods of modeling and analysis It will be used again and again as a reference source for students and researchers      Oil Shale ,2004

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