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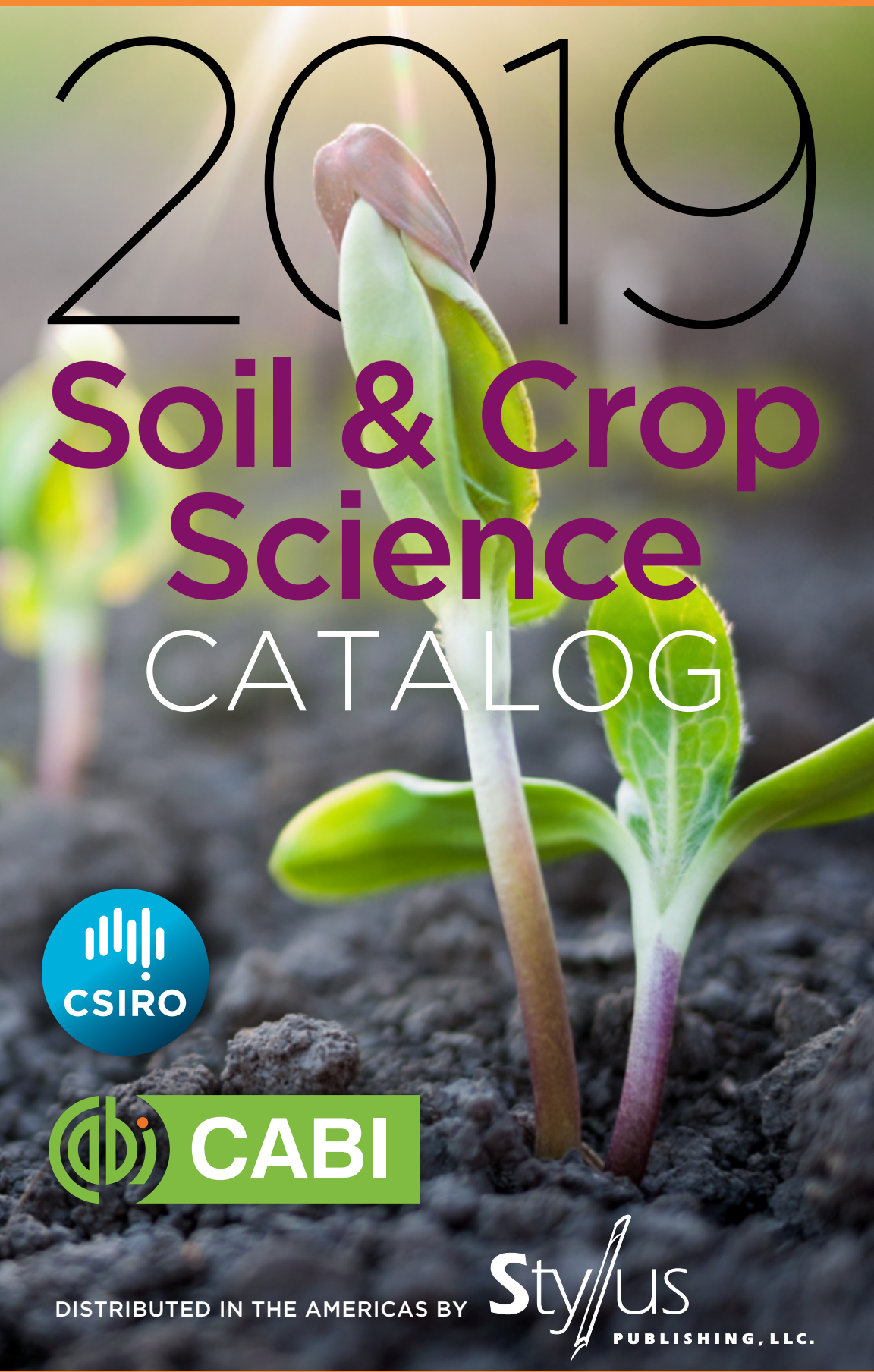

2019 Soil & Crop Science CATALOG

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BIOTECHNOLOGY & PLANT PRODUCTION

NEW!

Maize Kernel Development

Edited by Brian A. Larkins

This authoritative book acts as a guide to understanding maize kernel development. Written by a team of experts, it covers topics spanning pre- and post-fertilization events, embryo and endosperm development, grain filling and maturation, and factors influencing crop yield. It explores the significance of maize and other cereal grains, existing hypotheses and research, and important gaps in our knowledge and how we might fill them. This is a valuable resource for researchers of maize and other cereals, and anyone working on basic or applied science in the fields of seed development, plant genetics, and crop physiology.

240 pp, 6 3/4" x 9 3/5"
Cloth, Jan 2018, 978 1 78639 121 6, $160.00

NEW!

The Economics of Biotech Quality Enhanced Crops

The Case of High Oleic Soybeans

Nicholas Kalaitzandonakes and Alex Magnier

The book introduces systematic ways for analyzing key aspects of commercialization of quality-enhanced biotech crops, including estimating potential demand; potential substitution with existing products in the market; potential production systems and supply; potential supply chains and their economics; potential premiums that must be paid by users; and potential premiums that may be paid to the supply chain as well as to producers and others. It outlines methods, models and data that may be used for such analysis and will demonstrate their use through empirical applications in the context of HOS. It is accessible and valuable to a broad audience including policy-makers, regulators, economists, lawyers, industry executives, and scientists with an interest in the commercialization and impact of all emerging genetically modified crops with enhanced quality traits.

300 pp, 6 1/4" x 9 1/4"
Cloth, Nov 2018, 978 1 78064 847 7, $205.00

NEW!

Emerging Trends in Agri-Nanotechnology

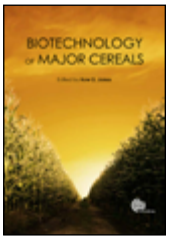
Fundamental and Applied Aspects

Edited by Harikesh Bahadur Singh, Sandhya Mishra, Leonardo Fernandes Fraceto and Renata D. de Lima

This book opens with a brief history of nanotechnology in agriculture. Applications are then examined in detail, including nanopesticides, nanosensors, nanofertilizers, and nanoherbicides. Topics covered include; the biosynthesis of nanoparticles (through microbes, plants and other biotic agents); the ecological consequences of their delivery into the environment (examining effects and toxicity on soil, soil biota, and plants); safety issues; an overview of the global market for nanotechnology products; and the regulation of nanotechnology in agriculture. The book concludes with speculations on what the future holds for the technology.

328 pp, 6 3/4" x 9 3/5", tables & color illus
Cloth, Jun 2018, 978 1 78639 144 5, $205.00

Biotechnology of Major Cereals



Edited by Huw D. Jones

Although maize is currently the only cereal with significant biotech seed sales, advances in the other major cereals outlined in this text indicate that rice, wheat, barley and sorghum could soon follow, either using conventional genetic engineering or incorporating the new developments in genome editing. In *Biotechnology of Major Cereals*, expert authors explain and discuss the latest advances including nuclear and chloroplast transformation, anther-culture and gene silencing. There are chapters on current transformation methodologies, key target tissues and traits as well as genome editing and a review of the current mergers and acquisitions in commercial biotechnology.

256 pp, 6 3/4" x 9 3/5", color photos, graphs & charts
Cloth, 2016, 978 1 78064 519 3, $140.00

Enhancing Crop Genepool Use

Capturing Wild Relative and Landrace Diversity for Crop Improvement

Edited by Nigel Maxted, Mohammad E. Dulloo and Brian V. Ford-Lloyd

Focusing on characterization techniques, conservation strategies, facilitating CWR and LR use and informatics development, *Enhancing Crop Genepool Use* highlights exotic plant germplasm as a potentially critical but neglected resource for crop improvement. Novel characterization techniques and conservation strategies to identify and preserve CWR and LR traits to increase options for crop improvement as a means of underpinning food security in the face of climate change are demonstrated, and the current status and future enhanced utilization of CWR and LR diversity for improving agricultural production and sustaining the environment are explored.

480 pp, 6 3/4" x 9 3/5", tables, figures & color illus
Cloth, 2016, 978 1 78064 613 8, $225.00

Advances in PGPR Research

Edited by Harikesh Bahadur Singh, Birinchi Kumar Sarma and Chetan Keswani

Rhizosphere biology is approaching a century of investigations wherein growth-promoting rhizomicroorganisms (PGPR) have attracted special attention for their ability to enhance productivity, profitability and sustainability at a time when food security and rural livelihoods are a key priority. Bio-inputs -- either directly in the form of microbes or their by-products -- are gaining tremendous momentum and harnessing the potential of agriculturally important microorganisms could help in providing low-cost and environmentally safe technologies to farmers. *Advances in PGPR Research* explores these recent developments and includes coverage of: low input biofertilizers and biofungicides used for sustainable agriculture; molecular techniques to enhance efficacy of microbial inputs; and intellectual property issues in PGPR research.

408 pp, 6 3/4" x 9 3/5"
Cloth, 2017, 978 1 78639 032 5, $225.00

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Intellectual Property Issues in Biotechnology

Edited by Harikesh Bahadur Singh, Alok Jha and Chetan Keswani

Adopting a unique approach, and with case studies and examples from developing economy markets, this book integrates science and business to provide an introduction and an insider view of intellectual property issues within the biotech industry. Broad in scope, the book covers key principles in pharmaceutical, industrial and agricultural biotechnology within four sections.

276 pp, 7 1/2" x 9 5/8", figures & tables
Cloth, 2016, 978 1 78064 653 4, $160.00

Plant Gene Silencing

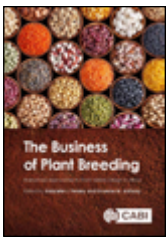
Mechanisms and Applications

Edited by Tamas Dalmay

Plant gene silencing is a crucially important phenomenon in gene expression and epigenetics. This book describes the way small RNA is produced and acts to silence genes, its likely origins in defense against viruses, and its potential to improve plants. Plant gene silencing can be used to improve industrial traits, to make plants more nutritious or more valuable to consumers, to remove allergens, and to improve resistance to weeds and pathogens.

CABI Biotechnology Series 5
224 pp, 6 3/4" x 9 3/5", tables & color illus
Cloth, 2017, 978 1 78064 767 8, $140.00

The Business of Plant Breeding



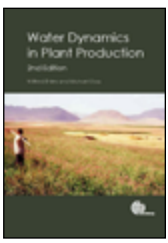
Market-led Approaches to Plant Variety Design in Africa

Edited by Gabrielle J. Persley and Vivienne M. Anthony

Beginning with an overview of the principles of demand-led plant breeding, the book then discusses aspects such as understanding the demands of clients and markets in rural and urban areas, foresight in setting product profiles and breeding targets, and determining breeding strategy and stage plans. It also covers measuring success and making the business case for future investments in breeding programs that will deliver new varieties to meet market demands.

232 pp, 6 3/4" x 9 3/5", color illus
Cloth, 2017, 978 1 78639 381 4, $135.00

Water Dynamics in Plant Production



SECOND EDITION

Wilfred Ehlers and Michael Goss

This edition of *Water Dynamics in Plant Production* describes the basic scientific principles of water transport in the soil–plant–atmosphere continuum, and explains the linkage between transpirational water use and dry matter production. Paying particular attention to the various agronomic strategies for adaptation to climate-driven limitations of water resources, the efficiency of water use in plant production and in achieving an economic yield is presented in detail.

392 pp, 6 3/4" x 9 3/5"
Paper, 2016, 978 1 78064 382 3, $75.00

Analytical Techniques for Natural Product Research

Satyanshu Kumar

256 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 473 8, $129.95

Biofuel Crops
Production, Physiology and Genetics

Edited by Bharat P. Singh

548 pp, 6 3/4" x 9 1/4"
Cloth, 2013, 978 1 84593 885 7, $259.95

Bt Resistance
Characterization and Strategies for GM Crops Expressing Bacillus thuringiensis Toxins

Edited by Mario Soberón, Yulin Gao and Alejandra Bravo

CABI Biotechnology Series 4
226 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 437 0, $150.95

Crop Plant Anatomy
Ratikanta Maiti, Pratik Satya, Dasari Rajkumar and Allam Ramaswamy

326 pp, 6 1/4" x 9 3/4", 234 illus
Cloth, 2012, 978 1 78064 019 8, $155.95

Greenhouse Technology and Management
SECOND EDITION

Nicolás Castilla

360 pp, 6 3/4" x 9 1/4", 234 illus, 32 color
Cloth, 2013, 978 1 78064 103 4, $197.95

Natural Antioxidants and Biocides from Wild Medicinal Plants
Edited by Carlos L. Cespedes, Diego A. Sampietro, David S. Seigler and Mahendra K. Rai

272 pp, 6 3/4" x 9 1/4"
Cloth, 2013, 978 1 78064 233 8, $197.95

Phytochemicals of Nutraceutical Importance
Edited by Dhan Prakash and Girish Sharma

376 pp, 6 3/4" x 9 3/5"
Cloth, 2014, 978 1 78064 363 2, $249.95

Plant-derived Pharmaceuticals
Principles and Applications for Developing Countries

Edited by Kathleen L. Hefferon

CABI Biotechnology Series 2
180 pp, 6 3/4" x 9 3/5", illus & b/w photos
Cloth, 2014, 978 1 78064 343 4, $150.95

AGRICULTURE & AGRIBUSINESS

Automation in Tree Fruit Production

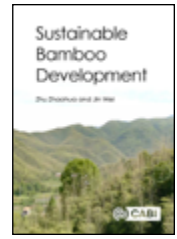

Principles and Practice

Edited by Qin Zhang

Written by experts in agricultural automation technology from around the world, chapters in this book cover topics such as automated tree fruit production systems, plant stress sensing and high-throughput phenotyping in precision horticulture, the economics of automation in tree fruit production, light interception sensing systems for canopy management, precision irrigation and water management, precision technologies for pest and disease management, opportunities for the application of robotics in tree fruit production, and the mechanical harvesting and handling of fruit crops.

304 pp, 6 3/4" x 9 3/5", 4-color graphs & photos
Cloth, 2017, 978 1 78064 850 7, $205.00

NEW!

Sustainable Bamboo Development


Z. Zhu and W. Jin

This book presents over 40 cases of bamboo development from across 22 major bamboo-industry countries and explores the knowledge gained from their successes and failures. It synthesizes experiences and exchanges with country experts from international training courses, study tours, and seminars. Each case includes detailed observations and summaries of discussions related to the development of bamboo-based industries in a healthy, sustainable way to facilitate the strategic and balanced development of the bamboo sectors in different global regions. Industrial and artisanal bamboo growing and processing is expanding worldwide, and this book collates key experiences to inform future developments.

320 pp, 6 3/4" x 9 3/5", table & color illus
Cloth, Apr 2018, 978 1 78639 401 9, $175.00

NEW!

Temperate Agroforestry Systems


SECOND EDITION

Edited by Andrew M. Gordon, Scott M. Newman and Brent Coleman

This second fully-updated and expanded edition includes additional chapters on India and Chile and, as a result of ongoing advances in the field, separate chapters on the US, Canada, the UK and continental Europe. Today's challenges of climate change, population growth and food security, in concert with the ongoing global requirement for the energy and water needed for a resilient agricultural paradigm, can be met through the wide-scale adoption of agroforestry practices, in both tropical regions and temperate zones. The second edition of *Temperate Agroforestry Systems* brings together many examples of temperate agroforestry and will make valuable reading for all those working in this area as researchers, practitioners and policy makers.

328 pp, 7 1/2" x 9 5/8"
Cloth, Apr 2018, 978 1 78064 485 1, $160.00

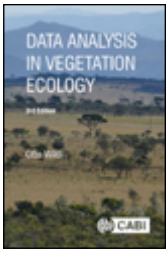
Climate Change and Cotton Production in Modern Farming Systems


Edited by M. P. Bange, J. Baker, P. Bauer, K. J. Broughton, G. Constable, Q. Luo, D. M. Oosterhuis, Y. Osanai, P. Payton, D. T. Tissue, K. Reddy and B. K. Singh

This review provides details for the formation of robust frameworks to evaluate the impact of projected climatic changes on cotton growing in temperate, sub-tropical and tropical zones, highlights the risks and opportunities with adaptation, and details the approaches for investment in research. Ultimately, it is a multi-faceted systems-based approach that combines all elements of the cropping system that will provide the best insurance to harness the change that is occurring, and best allow cotton industries worldwide to adapt. Given that there will be no single solution for all of the challenges raised by climate change and variability, the best adaptation strategy for industry will be to develop more resilient systems.

ICAC Reviews 6
72 pp, 8 1/4" x 11 3/4"
Paper, 2016, 978 1 78064 890 3, $60.00

Data Analysis in Vegetation Ecology



THIRD EDITION

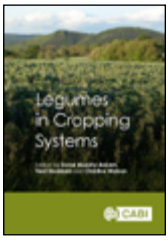
Otto Wildi

Completely revised and updated, this popular textbook introduces the reader to the investigation of vegetation systems with an emphasis on data analysis. The book succinctly illustrates the various paths leading to high quality data suitable for pattern recognition, pattern testing, static and dynamic modeling, and model testing, including spatial and temporal aspects of ecosystems.

Step-by-step introductions using small examples lead to more demanding approaches illustrated by real world examples aimed at explaining interpretations. All data sets and examples described in the book are available online and are written using the freely available statistical package R.

352 pp, 6 1/8" x 9 1/5"
Paper, 2017, 978 1 78639 422 4, $65.00

Legumes in Cropping Systems



Edited by Donal Murphy-Bokern, Fred Stoddard and Christine Watson

Based on contributions from members of the Legumes Future research consortium, in addition to those working outside of the project, this book acts as a complete and coherent overarching review of legume research. The authors describe current knowledge relating to the use of legumes in cropping systems, in addition to looking towards future research including challenges and opportunities. In each chapter the authors provide insight into the relevant literature to help support understanding and provide insight into the underlying processes that influence cropping system development.

270 pp, 6 3/4" x 9 3/5", full-color illus
Cloth, 2017, 978 1 78064 498 1, $140.00

Postharvest

An Introduction to the Physiology and Handling of Fruit and Vegetables

SIXTH EDITION

Ron Wills and John Golding

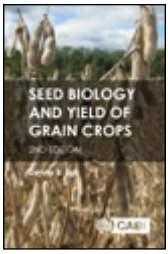
Completely updated, this broad-based introductory level textbook covers the key concepts and practical technologies to slow the deterioration of harvested produce, including handling, packaging, transport, temperature management and the control of pests and diseases. The book retains the high quality color section and the content has been revised to reflect up-to-date information on the key issues of effective postharvest handling.

New to the sixth edition:

- Discussion of issues important to consumers and the impact of trends in convenience marketing on the quality of fresh-cut produce
- Coverage of sustainability in terms of both energy used by technologies and non-synthetic disease and pest control systems
- Greater consideration given to pre-harvest factors that influence quality
- Additional information about the health benefits of plant antioxidant properties and a discussion of "superfoods."

306 pp, 5 2/5" x 8 1/2", figures & tables
Paper, 2016, 978 1 78639 148 3, $75.00

Seed Biology and Yield of Grain Crops



SECOND EDITION

Dennis B. Egli

This new edition examines the determination of grain crop yield from a unique perspective--by concentrating on the influence of the seed itself. This book: describes all aspects of seed growth and development; discusses the role of the seed in determining the two main yield components: individual seed weight and number of seeds per unit area; and uses the developed concepts and models to understand crop management and yield improvement. Substantially updated with new research and further developments of the practical applications of the concepts explored, this book is essential reading for those concerned with seed science and crop yield, including agronomists, crop physiologists, plant breeders, and extension workers.

232 pp, 6 1/8" x 9 1/5", graphs
Cloth, 2017, 978 1 78064 770 8, $140.00

Farm-level Modelling

Techniques, Applications and Policy

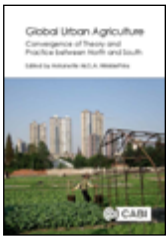
Edited by Shailesh Shrestha, Bouda Vosough Ahmadi and Andrew Barnes

This book provides an in-depth description of the different methodologies and techniques currently used in farm level modeling. While chapters will give an overview of the theoretical grounding behind the models, it will take an applied stance; more specifically using cases from the application of modelling to policy reforms and the subsequent impacts on rural communities and food supply. This book also provides descriptions on using farm level models in much wider fields such as aggregation and linking with sectoral models.

240 pp, 6 3/4" x 9 3/5", figures & tables
Cloth, 2016, 978 1 78064 428 8, $140.00

Global Urban Agriculture

Convergence of Theory and Practice between North and South



Edited by Antoinette WinklerPrins

Preface by Nathan McClintock

There has been growing attention to urban agriculture (UA) worldwide because of its role in making cities more sustainable. This edited volume brings together current research and case material about urban agriculture from both the Global North (GN) and the Global South (GS), revealing greater areas of overlap than difference both theoretically and substantively, and that research in one area can help inform the other. It explains how urban agriculture supports livelihoods, provides ecosystem services and community development; its contribution to social capital, networks, and agro-biodiversity conservation.

280 pp, 6 3/4" x 9 3/5"
Cloth, 2017, 978 1 78064 732 6, $140.00

An Introduction to Economics

Concepts for Students of Agriculture and the Rural Sector

FOURTH EDITION

Berkeley Hill

256 pp, 7 1/2" x 9 5/8"
Paper, 2014, 978 1 78064 475 2, $75.00

Bread, Beer and the Seeds of Change

Agriculture's Imprint on World History

Thomas R. Sinclair and C. J. Sinclair

208 pp, 6 7/8" x 9 3/4"
Paper, 2010, 978 1 84593 704 1, $30.00

Coping With Risk in Agriculture
Applied Decision Analysis
THIRD EDITION
J. Brian Hardaker, Gudbrand Lien, Jock R. Anderson and Ruud B. M. Huirne
296 pp, 7 1/2" x 9 5/8", graphs, tables & figures
Paper, 2015, 978 1 78064 240 6, $75.00

Nutrient Deficiencies of Field Crops
Guide to Diagnosis and Management
Prakash Kumar and Manoj Kumar Sharma
400 pp, 8 1/4" x 11 3/5", 600 color photos
Cloth, 2014, 978 1 78064 278 9, $259.95

Precision Agriculture for Grain Production Systems
Brett Whelan and James Taylor
208 pp, 6 5/8" x 9 5/8", 134 color illus & 6 color photos
Paper, 2013, 978 0 643 10747 2, $89.95

Promoting Investment in Agriculture for Increased Production and Productivity
Saifullah Syed and M. Miyazako
112 pp, 6 7/8" x 9 4/5", figures
Cloth, 2013, 978 1 78064 388 5, $129.95

SOIL SCIENCE

Interpreting Soil Test Results
What Do All the Numbers Mean?
THIRD EDITION
Pam Hazelton and Brian Murphy

Review of the Second Editon:

"*Interpreting Soil Test Results* is a handy compendium. Soil scientists who write for clients and the clients who read their reports...should find this book valuable."
—European Journal of Soil Science

Interpreting Soil Test Results is a practical reference enabling soil scientists, environmental scientists, environmental engineers, land holders and others involved in land management to better understand a range of soil test methods and interpret the results of these tests. It also contains a comprehensive description of the soil properties relevant to many environmental and natural land resource issues and investigations.

This edition has an additional chapter on soil organic carbon store estimation and an extension of the chapter on soil contamination. It also includes sampling guidelines for landscape design and a section on trace elements. The book updates and expands sections covering acid sulfate soil, procedures for sampling soils, levels of nutrients present in farm products, soil sodicity, salinity and rainfall erosivity. It includes updated interpretations for phosphorus in soils, soil pH and the cation exchange capacity of soils.

200 pp, 6 5/8" x 9 5/8", tables
Paper, 2017, 978 1 4863 0396 0, $44.95

Sediment Quality Assessment
A Practical Guide
SECOND EDITION
Edited by Stuart Simpson and Graeme Batley

In 2005, CSIRO published its highly cited *Handbook for Sediment Quality Assessment*. In the ensuing period, the science has advanced considerably. This practical guide is a revised and much expanded second edition, which will be a valuable tool for environmental practitioners.Written by experts in the field, it provides coverage of: sediment sampling; sample preparation; chemical analysis; ecotoxicology; bioaccumulation; biomarkers; and ecological assessment. In addition, detailed appendices describe protocols for many of the tests to be used.

376 pp, 6 5/8" x 9 5/8", 22 color photos & 46 illus
Paper, 2016, 978 1 4863 0384 7, $62.95

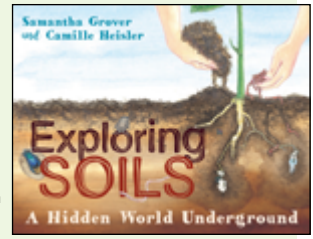
Soil Health, Soil Biology, Soilborne Diseases and Sustainable Agriculture
A Guide
Graham R. Stirling, Helen Hayden, Tony Pattison and Marcelle Stirling

This book provides information about the bacteria, fungi, nematodes and other soil organisms that not only harm food crops but also help them take up water and nutrients and protect them from root diseases. With illustrations and case studies, it provides growers with holistic solutions for building an active and diverse soil biological community capable of improving soil structure, enhancing plant nutrient uptake and suppressing root pests and pathogens.

280 pp, 6 5/8" x 9 5/8", 191 full color photos & 60 illus
Paper, 2016, 978 1 4863 0304 5, $79.95

FOR THE YOUNG SCIENTIST IN YOUR LIFE

Exploring Soils
A Hidden World Underground
Samantha Grover
Illustrated by Camille Heisler



Have you ever wondered what happens in the earth underneath us? James has, and he wants to be a soil scientist. In *Exploring Soils: A Hidden World Underground*, James discovers that soil is not just dirt for digging in but an essential part of our world. He explores how plants and animals live in soil, how soils are formed, how they differ, and the ways that soil is essential in our lives. Presenting a child-centered storyline written by Samantha Grover, a soil scientist and parent, and captivating illustrations from Camille Heisler, *Exploring Soils* is a perfect read for children aged 6-9 who are interested in the natural world around them.

32 pp, 11 1/6" x 8 5/8", color illus
Cloth, 2017, 978 1 4863 0500 1, $18.95

The Australian Soil Classification
SECOND EDITION
R. F. Isbell and The National Committee on Soils and Terrain

The Australian Soil Classification provides both a framework for organizing knowledge about Australian soils and a means of communication among scientists and land managers. This second edition includes updates from a working group of the National Committee on Soils and Terrain (NCST). Modifications include expanding the classification to incorporate different kinds of sulfidic materials, the introduction of subaqueous soils as well as new Vertosol subgroups, new Hydrosol family criteria and the consistent use of the term reticulate.

Australian Soil and Land Survey Handbooks Series 4
160 pp, 6 5/8" x 9 5/8", illus
Paper, 2016, 978 1 4863 0463 9, $46.95

Introduced Dung Beetles in Australia
A Pocket Field Guide
Penny Edwards, Pam Wilson and Jane Wright
80 pp, 6 1/2" x 4", 118 photos
Spiral Bound, 2015, 978 1 4863 0069 3, $15.95

Land-Use Change Impacts on Soil Processes

Tropical and Savannah Ecosystems

Edited by Francis Q. Brearley and Andrew D. Thomas

200 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 210 9, $150.95

Soil Carbon

Science, Management and Policy for Multiple Benefits

Edited by Steven A. Banwart, Elke Noellemeyer and Eleanor Milne

Scientific Committee on Problems of the Environment (SCOPE) Series 71

420 pp, 6 3/4" x 9 3/5", figures, graphs & maps
Cloth, 2015, 978 1 78064 532 2, $186.95

Visual Soil Evaluation

Realising Potential Crop Production with Minimum Environmental Impact

Edited by Bruce C. Ball and Lars J. Munkholm

168 pp, 6 3/4" x 9 3/5"
Paper, 2015, 978 1 78064 745 6, $65.00

DISEASE, WEED & PEST MANAGEMENT

NEW!

The Economics of Soybean Disease and Control Strategies

Nicholas Kalaitzandonakes and James Kaufman

The first section provides an overview of global soybean diseases and their economic significance. It pieces together the existing evidence on the incidence and severity of such diseases and discusses the available management techniques, both existing and emerging. Attention then shifts to farm-level decision making where the potential economic payoffs of alternative disease practices and key uncertainties on the need and benefits for such practices will be discussed in detail. Adoption of new technologies is discussed along with what potential market-level impacts might be. Extensive empirical case studies are provided where strategies for economically optimal management of soybean seedling disease and soybean root rots are detailed. The last section provides a global economic model that evaluates the potential economic benefits of soybean disease and their distribution and draws conclusions.

362 pp, 6 1/4" x 9 1/4"
Cloth, Oct 2018, 978 1 78064 808 8, $240.00

NEW!

Plant Parasitic Nematodes in Subtropical and Tropical Agriculture

THIRD EDITION

Edited by R. Sikora, D. L. Coyne, J. Hallmann and P. Timper

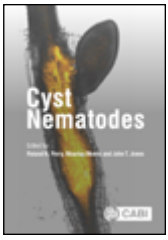
Covering all aspects of practical plant nematology in subtropical and tropical agriculture, the third edition of this definitive global reference work is fully revised and in full color throughout. It covers the major food and cash crops including; rice, cereals, solanum and sweet potatoes and other root and tuber crops, food legumes, vegetables, peanut, citrus, tree and fruit crops, coconut and other palms, coffee, cocoa, tea, bananas, sugarcane, tobacco, pineapple, cotton, other tropical fibers, spices, condiments and medicinal plants.

New content in this edition includes: a chapter on nematode soil biodiversity and soil health; reflections on the impact of nematodes on food security, climate change interactions and alternatives to pesticides, small subsistence growers and organic agriculture; and significant revisions to the IPM chapter and chapters on vegetables.

888 pp, 6 3/4" x 9 3/5", full-color illus throughout
Cloth, Sep 2018, 978 1 78639 124 7, $250.00

NEW!

Cyst Nematodes



Edited by Roland N. Perry, Maurice Moens and John T. Jones

This book is a compendium of current information on all aspects of cyst nematodes. It provides comprehensive coverage of their biology, management, morphology and diagnostics, in addition to up-to-date information on molecular aspects of taxonomy, host-parasitic relationships and resistances of these economically important parasites.

456 pp, 6 3/4" x 9 3/5"
Cloth, May 2018, 978 1 78639 083 7, $225.00

Aphids as Crop Pests

SECOND EDITION

Edited by Helmut van Emden and Richard Harrington

From reviews of the first edition:

"The editors and authors are to be congratulated on producing an excellent book." ***—European Journal of Entomology***

This revision and update of the well-received first edition reflects the expansion of research in genomics, endosymbionts and semiochemicals, as well as the shift from control of aphids with insecticides to a more integrated approach imposed by increasing resistance in the aphids and government restrictions on pesticides. The book remains a comprehensive and up-to-date reference work on the biology of aphids, the various methods of controlling them and the progress of integrated pest management as illustrated by ten case histories.

700 pp, 7 1/2" x 9 5/8", figures, graphs & color photos
Cloth 2017, 978 1 78064 709 8, $290.00

Biocontrol Agents

Entomopathogenic and Slug Parasitic Nematodes

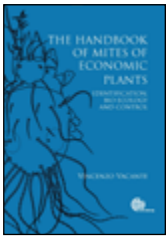
Edited by M. M. Abd-Elgawad, Tarique Hassan Askary and James Coupland

This book describes entomopathogenic and slug parasitic nematodes as potential biocontrol agents in crop insect and slug pest management. Addressing research on these two nematodes from tropical, subtropical, and temperate countries, it covers the new techniques and major developments regarding mass production, formulation, application, commercialization, and safety measures. Plans for future strategies to make these beneficial nematodes cost-effective and expand their use by including them in integrated pest management programs in different agro-ecosystems are also discussed.

660 pp, 7 1/2" x 9 5/8", tables, figures & b/w & color illus
Cloth, 2017, 978 1 78639 000 4, $250.00

Handbook of Mites of Economic Plants

Identification, Bio-ecology and Control



Vincenzo Vacante

This book provides an encyclopedic reference to the major mites, described by family in terms of their internal and external morphology, bio-ecology and family systematics. Methods of mite collection and laboratory study are described, as well as species diagnostic characteristics, worldwide distribution, host plants, identification by the type of damage they cause and control strategies, including chemical and biological intervention and integrated pest management measures. Mites of the following families are included: *Eriophyoidea, Tarsonemidae, Tuckerellidae, Tenuipalpidae, Tetranychidae, Acaridae, Penthaleidae.*

832 pp, 8 5/8" x 11"
Cloth, 2016, 978 1 84593 994 6, $363.95

Handbook of Pest Management in Organic Farming

Edited by Vincenzo Vacante and Serge Kreiter

This book is an up-to-date and comprehensive reference covering pest management in organic farming in major crops of the world. General introductory chapters explore the management of crops to prevent pest outbreaks, plant protection tools in organic farming, and natural enemies and pest control. The remaining chapters are crop-based and discuss geographic distribution, economic importance and key pests. For each pest the fundamental aspects of its bio-ecology and the various methods of control are presented. Understanding of the scientific content is facilitated with practical advice, tables and diagrams, helping users to apply the theories and recommendations.

576 pp, 6 3/4" x 9 3/5"
Cloth, 2017, 978 1 78064 499 8, $290.00

Integrated Management of Insect Pests on Canola and Other Brassica Oilseed Crops

Edited by Gadi V. P. Reddy

This book: is the only single compiled source of information on integrated management of canola and other Brassica oilseed pests; presents the biology and management of all the major and minor pests of Brassica oilseed crops; and is an essential source of information for applied entomologists, crop protection researchers, extension agents and stake holders.

408 pp, 7 1/2" x 9 5/8"
Cloth, Jun 2017, 978 1 78064 820 0, $290.00

Invasive Plant Species of the World

A Reference Guide to Environmental Weeds

SECOND EDITION

Ewald Weber

Globally relevant, this book is a full-color reference guide to the major invasive plants. It includes fifty extra species since the first edition, covering a total of over 500 economically and environmentally important plants. This book provides a complete resource on the subject, supplying illustrations, synonyms, geographical distribution, habitats invaded, morphology, ecology and references for each species. With revised and updated species ranges presented as full color maps, this new edition includes newly established or improved control methods for each species and increased ecology and impact information.

596 pp, 8 5/8" x 11", illus & maps
Cloth, 2017, 978 1 78064 386 1, $320.00

The UK Pesticide Guide 2018

THIRTY-FIRST EDITION

Edited by Martin A. Lainsbury

This is the authoritative reference for all pesticide products and adjuvants approved for use in agriculture, amenity, forestry and horticulture. The 2018 edition has 15 new active ingredient profiles, plus details for products that require 5m Arthropod buffer zones and products that require use of spray equipment with Drift Reduction Technology (DRT) within 30m of surface water bodies to complement the LERAP details.

800 pp, 6 7/8" x 9 3/4"
Paper, Mar 18, 978 1 9998966 0 7, $85.00

Pest Management of Turfgrass for Sport and Recreation

Gary Beehag, Jyri Kaapro and Andrew Manners

This book provides an industry reference for the identification of pests affecting the roots, stems and leaves of turfgrass and control of these species through integrated pest management. It contains information on the distribution, ecology and biology of pests and how to monitor them. The integrated pest management approach outlined in the book includes natural environmental controls, beneficial and predatory species of arthropods, resistant cultivars and insecticidal and miticidal pesticides.

312 pp, 6 5/8" x 9 5/8", 97 color & 15 b/w illus
Paper, 2016, 978 0 643 09514 4, $99.95

Fungi of Australia

Inocybaceae

P. Brandon Matheny and Neale L. Bougher

This authoritative account provides a major advance in knowledge for this diverse and widespread group with detailed descriptions, identification keys, and phylogenetic trees based on DNA sequences generated during the work. Every species is illustrated with colored plates and/or line drawings of microscopic features.

Fungi of Australia Series
592 pp, 6 7/8" x 9 4/5", color photos & illus
Cloth, 2017, 978 1 4863 0666 4, $179.95

NOW IN PAPER

Integrated Pest Management

Principles and Practice

Edited by Dharam P. Abrol and Uma Shankar

Providing a critical evaluation of the management strategies involved in ecologically-based pest management, this book presents a balanced overview of environmentally safe and ecologically sound approaches. Topics covered include biological control with fungi and viruses, conservation of natural predators, use of botanicals, and how effective pest management can help promote food security. In the broader context of agriculture, sustainability and environmental protection, the book provides a multidisciplinary and multinational perspective on integrated pest management useful to researchers in entomology, crop protection, environmental sciences and pest management.

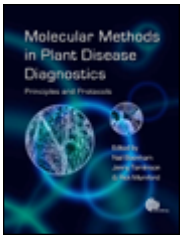
512 pp, 6 3/4" x 9 3/5"
Paper, 2016, 978 1 78639 031 8, $75.00

Integrated Pest Management in Tropical Regions

Edited by Carmelo Rapisarda and G. Massimino Cocuzza

This book provides up-to-date and comprehensive coverage of the research and application of Integrated Pest Management (IPM) in tropical regions. The first section explores the agro-ecological framework that represents the foundations of IPM in addition to emerging technologies in chemical and biological methods that are core to pest control in tropical crops. The second section follows a crop-based approach and provides details of current IPM applications in the main tropical food crops (such as cereals, legumes, root and tuber crops, sugarcane, vegetables, banana and plantain, citrus, oil palm, tea, cocoa, and coffee), fiber crops (such as cotton), and tropical forests.

312 pp, 6 3/4" x 9 3/5"
Cloth, 2017, 978 1 78064 800 2, $160.00



Molecular Methods in Plant Disease Diagnostics

Principles and Protocols

Edited by N. Boonham, J. Tomlinson and R. Mumford

This book provides protocols for nucleic acid-based methods currently applied to plant pathogen detection and identification. It takes the practitioner through the full range of molecular diagnostic and detection methods, and, as these generic techniques are appropriate for use on any target with minimal modification, also provides a useful resource for students of plant pathology and plant pathologists. Beginning with the background and future directions of the science, it then addresses DNA barcoding, microarrays, polymerase chain reactions (PCR), quality assurance and more, forming a complete reference on the subject.

212 pp, 7 1/2" x 9 5/8"
Cloth, 2016, 978 1 78064 147 8, $125.00

CABI INVASIVES SERIES

FORTHCOMING

Parthenium Weed

Biology, Ecology and Management

Edited by Stephen Adkins, Asad Shabbir and Kunjithapatham Dhileepan

This book explores the most important aspects of the biology, ecology, and management of "the world's worst weed." Covering its mode of spread and its impacts upon agricultural production, the environment, and human health, it also reviews management techniques such as biological control, cultural, physical, and chemical approaches. Suitable for researchers of plant ecology and related subjects, it also considers the possible uses of Parthenium weed, its distribution, and the impacts of climate change.

312 pp, 6 3/4" x 9 3/5"
Cloth, Jan 2019, 978 1 78064 525 4, $140.00

NEW!

Invasion Biology

Hypotheses and Evidence

Edited by Jonathan M. Jeschke and Tina Heger

There are many hypotheses describing the interactions involved in biological invasions, but it is largely unknown whether they are backed up by empirical evidence. This book fills that gap by developing a tool for assessing research hypotheses and applying it to a number of invasion hypotheses, using the hierarchy-of-hypotheses (HoH) approach, and mapping the connections between theory and evidence. In Part 1, an overview chapter of invasion biology is followed by an introduction to the HoH approach and short chapters by science theorists and philosophers that comment on the approach. Part 2 outlines the invasion hypotheses and their interrelationships. These include biotic resistance and island susceptibility hypotheses, disturbance hypothesis, invasional meltdown hypothesis, enemy release hypothesis, evolution of increased competitive ability and shifting defence hypotheses, tens rule, phenotypic plasticity hypothesis, Darwin's naturalization & limiting similarity hypotheses and the propagule pressure hypothesis. Part 3 suggests future directions for invasion research.

190 pp, 6 3/4" x 9 3/5", color figures
Cloth, May 2018, 978 1 78064 764 7, $125.00

Biosecurity Surveillance

Quantitative Approaches

Edited by Frith Jarrad, Samantha Low-Choy and Kerrie Mengersen

386 pp, 8 1/2" x 11", figures & graphs
Cloth, 2015, 978 1 78064 359 5, $186.95

Potential Invasive Pests of Agricultural Crops

Edited by Jorge E. Peña

496 pp, 6 7/8" x 9 3/4", 141 illus
Cloth, 2013, 978 1 84593 829 1, $238.95

Invasive Alien Plants

Impacts on Development and Options for Management

Edited by Carol A. Ellison, K. V. Sankaran and Sean T. Murphy

This book brings together a wide range of invasive plant specialists from the Asia-Pacific region who share their experience in addressing the problem and delivering solutions. *Mikania micrantha* is used as a case study in the book as it exemplifies many of the issues that need to be addressed.

The book emphasizes the social and economic implications of plant invasion, and discusses direct impacts on livelihoods and biodiversity. It explains how various approaches to management including traditional ecological knowledge and classical biological control can be keys to the delivery of sustainable solutions, focusing on experiences in India, Nepal, Papua New Guinea and China. The use of policy frameworks in biological control and other management measures are also described.

250 pp, 6 3/4" x 9 3/5", tables & color photos
Cloth, 2017, 978 1 78064 627 5, $140.00

Bioenergy and Biological Invasions

Ecological, Agronomic and Policy Perspectives on Minimizing Risk

Edited by Lauren D. Quinn, David P. Matlaga and Jacob N. Barney

170 pp, 6 3/4" x 9 3/5", graphs, figures & photos
Cloth, 2015, 978 1 78064 330 4, $150.95

Invasive Alien Plants

An Ecological Appraisal for the Indian Subcontinent

Edited by J. R. Bhatt, J. S. Singh, S. P. Singh, R. S. Tripathi and Ravinder K. Kohli

328 pp, 6 3/4" x 9 3/4", 107 illus
Cloth, 2012, 978 1 84593 907 6, $197.95

Invasive Plant Ecology and Management

Linking Processes to Practice

Edited by Thomas A. Monaco and Roger A. Sheley

216 pp, 6 1/4" x 9 1/4", 27 illus
Cloth, 2012, 978 1 84593 811 6, $155.95

Invasive Species and Global Climate Change

Edited by Lewis H. Ziska and Jeffery S. Dukes

368 pp, 7 1/8" x 9 3/4", tables & figures
Cloth, 2014, 978 1 78064 164 5, $186.95

Pest Risk Modelling and Mapping for Invasive Alien Species

Edited by Robert C. Venette

256 pp, 6 3/4" x 9 3/5", figures
Cloth, 2015, 978 1 78064 394 6, $165.95

Review of Invertebrate Biological Control Agents Introduced into Europe

Esther Gerber and Urs Schaffner

An overview of all documented releases of exotic invertebrate biological control agents (IBCAs) into Europe, the book summarizes key information on 176 IBCAs released against 58 target pests, and includes a summary chapter on releases in Europe over the past 110 years. The information is largely based on the BIOCAT database, originally developed by the late D.J. Greathead (former director of the International Institute of Biological Control, now part of CABI) and updated by CABI scientists.

208 pp, 6 1/8" x 9 1/5", graphs & tables
Cloth, 2016, 978 1 78639 079 0, $160.00

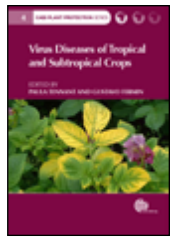
The Handbook of Naturally Occurring Insecticidal Toxins

Opender Koul

Focusing on the natural toxins that are purely toxic to insects, this book contains over 500 chemical structures. It discusses the concepts and mechanisms involved in toxicity, bioassay procedures for evaluation, structure-activity relationships, and the potential for future commercialization of these compounds. A comprehensive review of the subject, this book forms an important source of information for researchers and students of crop protection, pest control, phytochemistry and those dealing in insect-plant interactions.

864 pp, 6 3/4" x 9 3/5"
Cloth, 2016, 978 1 78064 270 3, $295.00

Virus Diseases of Tropical and Subtropical Crops



Edited by Paula Tennant and Gustavo Fermin

This book describes interactions of plant viruses with hosts and transmission vectors in an agricultural context. Starting with an overview of virus biology, economics and management, chapters then address economically significant plant diseases of tropical and subtropical crops. For each disease, symptoms, distribution, economic impact, causative virus, taxonomy, host range, transmission, diagnostic methods and management strategies are discussed.

CABI Plant Protection Series 4
264 pp, 6 3/4" x 9 3/5"
Cloth, 2016, 978 1 78064 426 4, $165.95

Applied Plant Virology

Calum R. Wilson

Modular Texts Series
190 pp, 7 1/2" x 9 5/8", charts, tables & b/w illus
Paper, 2014, 978 1 84593 991 5, $77.95

Biocontrol Agents of Phytonematodes

Edited by Tarique Hassan Askary and P. R. P. Martinelli

480 pp, 6 1/4" x 9 1/4"
Cloth, 2015, 978 1 78064 375 5, $269.95

Biological Control of Plant-Parasitic Nematodes

Soil Ecosystem Management in Sustainable Agriculture

SECOND EDITION

Graham R. Stirling

536 pp, 6 3/4" x 9 3/5", figures, tables & photos
Cloth, 2014, 978 1 78064 415 8, $249.95

Biopesticides

Pest Management and Regulation

Alastair Bailey, David Chandler, W.P. Grant, Wyn Grant, Justin Greaves, Gillian Prince and Mark Tatchell

200 pp, 6 7/8" x 9 3/4"
Paper, 2013, 978 1 84593 977 9, $72.50

Climate Change and Insect Pests

Edited by Christer Björkman and Pekka Niemala

CABI Climate Change Series 8
264 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 378 6, $150.95

Diseases of Temperate Horticultural Plants

Edited by Raymond A. T. George and Roland T. V. Fox

488 pp, 6 3/4" x 9 3/5", color photos
Cloth, 2014, 978 1 84593 773 7, $228.95

Fungicides in Crop Protection

SECOND EDITION

Robert Oliver and H. G. Hewitt

200 pp, 7 1/2" x 9 5/8", graphs, tables & b/w photos
Paper, 2014, 978 1 78064 167 6, $75.00

Plant Nematology

SECOND EDITION

Edited by Roland N. Perry and Maurice Moens

568 pp, 7 1/2" x 9 5/8", illus
Paper, 2013, 978 1 78064 153 9, $119.95

Sustainable Crop Disease Management Using Natural Products

Edited by K. Vadivel, S. Ganesan and J. Jayaraman

424 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 323 6, $197.95

The Pesticide Encyclopedia

Edited by Kalyani Paranjape, Vasant Gowariker, V. N. Krishnamurthy and Sudha Gowariker

726 pp, 8 5/8" x 10 5/8", figures, tables & photos
Cloth, 2015, 978 1 78064 014 3, $384.95

PLANT BIOLOGY

Leafy Medicinal Herbs

Botany, Chemistry, Postharvest Technology and Uses

Edited by Dawn C. P. Ambrose, Annamalai Manickavasagan and Ravindra Naik

This book compiles the literature for 23 of the most globally relevant leafy medicinal herbs. Beginning with a general overview and discussion of the importance of these plants, it then handles each herb by chapter. Chapters discuss the botany of the crop, including its history and origin, geographical distribution and morphology, before focusing on the chemical composition and phytochemical aspects. They then review postharvest technology such as processing and value addition, before concluding with the general and pharmacological uses for each crop.

312 pp, 6 3/4" x 9 3/5", illus
Cloth, 2016, 978 1 78064 559 9, $160.00

HORTICULTURE AND FOOD

Plant Stress Physiology

SECOND EDITION

Edited by Sergey Shabala

Completely updated from the successful first edition, this book provides a timely review of the recent progress in our knowledge of all aspects of plant perception, signalling, and adaptation to a variety of environmental stresses. The text covers in detail areas such as drought, salinity, waterlogging, oxidative stress, pathogens, and extremes of temperature and pH.

This second edition of *Plant Stress Physiology* presents detailed, up-to-date research on plant responses to a wide range of stresses; includes new, full-color figures to illustrate the principles outlined in the text; and is written in a clear and accessible format with descriptive abstracts for each chapter.

376 pp, 6 3/4" x 9 3/5", figures, tables & color photos
Cloth, 2017, 978 1 78064 729 6, $160.00

The Handbook of Microbial Metabolism of Amino Acids

Edited by J. P. F. D'Mello

This book collates and reviews recent advances in the microbial metabolism of amino acids, emphasizing diversity and the unique features of amino acid metabolism in bacteria, yeasts, fungi, protozoa and nematodes. As well as studying the individual amino acids, a number of themes are explored throughout the work. These include: comparative issues between the metabolism of microbes and those of higher organisms, including plants and mammals; potential for drug targets in pathways of both biosynthesis and degradation of amino acids; relationship between amino acids or associated enzymes and virulence in parasitic pathogens; practical implications for food microbiology and pathogen characterization; and future priorities relating to fundamental biochemistry of microrganisms, food quality and safety, human and animal health, plant pathology, drug design and ecology.

560 pp, 6 3/4" x 9 3/5"
Cloth, 2017, 978 1 78064 723 4, $320.00

UV-B Radiation and Plant Life

Molecular Biology to Ecology

Edited by Brian R. Jordan

Ultraviolet-B radiation (UV-B) has profound effects on plant growth and development, and exposure varies with ozone depletion across geographic regions with ecosystem and agricultural consequences. This book deals with large-scale impacts and how UV-B affects plants at the molecular level. While UV-B radiation can be damaging, it also has a more positive role in plant photomorphogenesis. Consequently, UV-B treatments are being developed as innovative approaches to improve horticulture. This book is a timely synthesis of what we know and need to know about UV-B radiation and plants.

200 pp, 6 3/4" x 9 3/5", figures
Cloth, 2017, 978 1 78064 859 0, $160.00

Abiotic Stresses in Crop Plants

Edited by Usha Chakraborty and Bishwanath Chakraborty

278 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 373 1, $165.95

Amino Acids in Higher Plants

Edited by J. P. F. D'Mello

632 pp, 8 5/8" x 11 3/4", graphs & charts
Cloth, 2015, 978 1 78064 263 5, $301.95

Vegetable Grafting

Principles and Practices

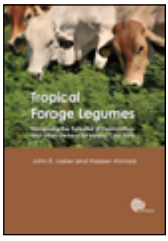
Edited by Giuseppe Colla, Francisco Perez-Alfocea and Dietmar Schwarz

Vegetable grafting is gaining considerable interest in research and practice as an alternative to fumigants, which are being phased out, to protect crops from soil-borne diseases. This book is derived from an EU COST action project and reviews the latest developments in the science and practices of vegetable grafting. Although aimed mainly at researchers, it is also concerned with translating the science into the field, hence the "practices" part which will be valuable to highly trained practitioners and extension workers.

296 pp, 6 3/4" x 9 3/5", tables, figures & color photos
Cloth, 2017, 978 1 78064 897 2, $140.00

Tropical Forage Legumes

Harnessing the Potential of Desmanthus and Other Genera for Heavy Clay Soils



John R. Lazier and Nazeer Ahmad

This book explores the importance of heavy clay soils to agricultural productivity in the tropics and subtropics and the identification of adapted, productive forage legumes for this environment.

480 pp, 6 3/4" x 9 3/5", tables, figures & color photos
Cloth, 2016, 978 1 78064 628 2, $225.00

Australia's Role in Feeding the World

The Future of Australian Agriculture

Edited by Tor Hundloe, Sarah Blagrove and Hannah Ditton

This highly topical book draws together the latest intelligence on the sustainable production and distribution of food and other products from Australian farms. It examines questions that policy-makers, farmers, politicians, agricultural scientists and the general public are asking about the potential productivity of Australia's arable land, the environmental and economic impacts of seeking to increase productivity, and the value of becoming cleaner and greener in agricultural output. With chapters on the emergence of new markets, consumer trends in China, the biophysical constraints on agricultural expansion, and the various products of Australian agriculture and aquaculture, *Australia's Role in Feeding the World* provides valuable insight into the future of agriculture in this nation.

280 pp, 6 5/8" x 9 5/8", photos, maps & illus.
Paper, 2017, 978 1 4863 0589 6, $44.95

Beneficial Microorganisms in Agriculture, Food and the Environment

Safety Assessment and Regulation

Edited by Ingvar Sundh, Andrea Wilcks and Mark S. Goettel

360 pp, 6 7/8" x 9 3/4", 17 b/w illus
Cloth, Jan 2013, 978 1 84593 810 9, $197.95

Brassica Oilseeds

Breeding and Management

Edited by Arvind Kumar, Surinder S. Banga, Prabhu Dyal Meena and Priya Ranjan Kumar

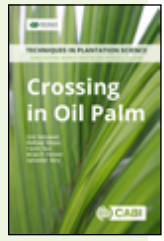
280 pp, 6 3/4" x 9 3/5"
Cloth, 2015, 978 1 78064 483 7, $165.95

TECHNIQUES IN PLANTATION SCIENCE

Oil palm is the world's most important oil crop. Presenting sound practices based on scientific innovation, these guides provide techniques integrated with expertise and the application of sustainable aspects of agronomy and crop protection, promoting green, eco-friendly agriculture.

NEW!

Crossing in Oil Palm



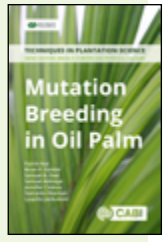
A Manual

Umi Setiawati, Baihaqi Sitepu, Fazir Nur, Brian P. Forster and Sylvester Dery

Illustrating crossing techniques to maximize success and safeguard purity, enabling the production of high quality seeds to grow-on as planting material and in breeding superior cultivars, this book covers: biology and genetics, germplasm, target traits and commercial crossing; health and safety considerations in the field and laboratory; pollen collection and storage, pollen viability testing, and pollination; isolation of the female inflorescence; and commercial tenera production.

96 pp, 6 1/8" x 9 1/5"
Paper, Nov 2018, 978 1 78639 591 7, $30.00

Mutation Breeding in Oil Palm

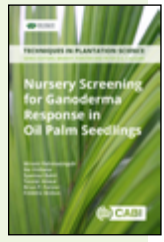


Fazir Nur, Brian P. Forster, Samuel A. Osei, Samuel Amiteye, Jennifer Ciomas, Soeranto Hoeman and Ljupcho Jankuloski

This is a practical guide to mutation breeding in oil palm, providing step-by-step illustrated methods in a range of key activities in mutation induction, mutation detection and mutant line development in oil palm. It features coverage of: mutation breeding, induction and detection in oil palm; mutant line/plant development in oil palm; and novel traits in oil palm improvement.

96 pp, 6 1/8" x 9 1/5"
Paper, Nov 2018, 978 1 78639 621 1, $30.00

Nursery Screening for Ganoderma Response in Oil Palm Seedlings



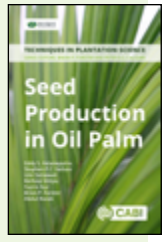
A Manual

Miranti Rahmaningsih, Ike Virdiana, Syamsul Bahri, Yassier Anwar, Brian P. Forster and Frédéric Breton

This is a hands-on, practical guide covers seedling screening for disease response in oil palm for pathology, breeding and genetics. It covers: health and safety considerations; media preparation for in vitro culture; collecting isolates and culture preparation; preparation of *Ganoderma* inoculum; nursery inoculation; and scoring response.

96 pp, 6 1/8" x 9 1/5"
Paper, Nov 2018, 978 1 78639 624 2, $30.00

Seed Production in Oil Palm



A Manual

Eddy S. Kelanaputra, Stephen P. C. Nelson, Umi Setiawati, Baihaqi Sitepu, Fazir Nur, Brian P. Forster and Abdul Razak

This manual provides step-by-step illustrated methods, written by practitioners actively engaged in oil palm seed production and breeding, including: health and safety considerations; pollination and harvesting; seed preparation, viability testing and moisture testing; and seed processing for commercial production and breeding.

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Edited by Matthew P. Reynolds

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This book provides an overview of the essential disciplines required for sustainable crop production in unpredictable environments. Chapters include discussions of adapting to biotic and abiotic stresses, sustainable and resource-conserving technologies and new tools for enhancing crop adaptation. Examples of successful applications as well as future prospects of how each discipline can be expected to evolve over the next 30 years are also presented. Laying out the basic concepts needed to adapt to and mitigate changes in crop environments, this is an essential resource for researchers and students in crop and environmental science as well as policy makers.

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Edited by Jürg Fuhrer and Peter J. Gregory

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Case Studies from Asia and Africa

Edited by Naveen P. Singh, Cynthia Bantilan, Kattarkandi Byjesh and Swamikannu Nedumaran

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Edited by Amir H. Kassam, Saidi Mkomwa and Theodor Friedrich

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Australian Perspectives

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Sara Finley

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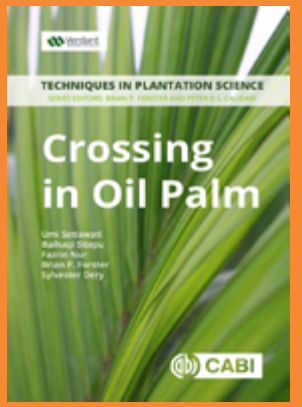

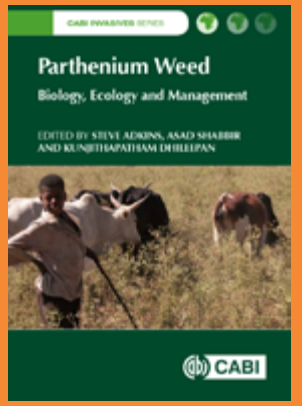

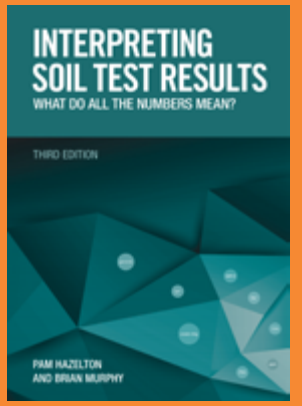

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