

BURLEIGH DODDS SERIES IN AGRICULTURAL SCIENCE

Delivering knowledge for the agricultural science community

climate•SMART•publishing
IN AGRICULTURAL SCIENCE

2020 PUBLISHING PROGRAMME



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climate•SMART•publishing

IN AGRICULTURAL SCIENCE

What is 'climate-smart-publishing' and how is Burleigh Dodds Science Publishing achieving it?

Let's start with 'climate-smart'. It is widely recognised that agriculture is a significant contributor to global warming and climate change. It has been estimated that agriculture is responsible for 10-12% of greenhouse gas emissions. This figure rises as high as 24% if forestry and other land use is included, taking into account such factors as deforestation to clear land for more crops and livestock.

Agriculture needs to reduce its environmental impact and adapt to current climate change whilst still feeding a growing population i.e. become more 'climate-smart'. Burleigh Dodds Science Publishing is playing its part in achieving this by bringing together key research on making the production of the world's most important crops and livestock products more sustainable. Our aim is to create a foundation of knowledge on which researchers can build to meet the challenge of climate-smart agriculture.

So – on to 'smart-publishing'. Based on extensive research, our publishing programme specifically targets the challenge of climate-smart agriculture. We are building a database of review chapters, each written by a leading expert, which systematically covers both the major crops and livestock products and, at the same time, each step in the value chain for their production, from breeding through to harvest. Using the latest technology to manage this wealth of material, we have rapidly built up a major publishing programme which we plan to publish in a range of formats to suit our customers, whether books or individual chapters, or in print or electronic formats.

In these ways we are using 'smart-publishing' to help achieve 'climate-smart' agriculture.



All our titles are available in hardback, e-book and e-chapter formats from www.bdspublishing.com

Thematic and product chapter collections are available via Burleigh Dodds Chapters Online.

<https://bdschapters.com>

See p.10-11 for more information.

For more purchase options see Ways to order (page 19).

CROPS

CROP MANAGEMENT



Genome editing for precision crop breeding

Editor Dr Matthew Willmann, Cornell University, USA

ISBN - print 978-1-78676-447-8
 ISBN - ePub 978-1-78676-449-2
 ISBN - ePDF 978-1-78676-450-8
Pages 440
Pub. Date November 2020
Price £180/\$235/€215/C\$305
Series No AS97

NEW



Advances in horticultural soilless culture

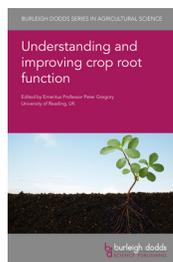
Editor Prof. Nazim Gruda, University of Bonn, Germany

ISBN - print 978-1-78676-435-5
 ISBN - ePub 978-1-78676-437-9
 ISBN - ePDF 978-1-78676-438-6
Pages 360
Pub. Date September 2020
Price £160/\$210/€190/C\$270
Series No AS94

NEW

Part 1 of this volume reviews advances in gene editing techniques such as insertion-based genome edits, base editing, guide RNAs and CRISP/Cas gene editing. Part 2 surveys applications of gene editing in key cereal and vegetable crops.

Part 1 of this collection reviews research on optimising substrates for soilless cultivation. Part 2 assesses advances in technologies such as fertigation systems and process control. The final part of the book includes case studies on a range of horticultural crops such as tomatoes, strawberries and lettuce.



Understanding and improving crop root function

Editor Emeritus Prof. Peter Gregory, University of Reading, UK

ISBN - print 978-1-78676-362-0
 ISBN - ePub 978-1-78676-362-4
 ISBN - ePDF 978-1-78676-363-1
Pages 440
Pub. Date June 2020
Price £180/\$235/€215/C\$305
Series No AS90

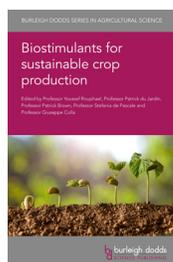
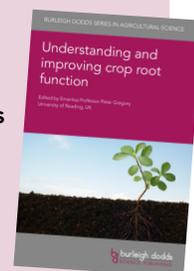
NEW

Part 1 in this collection reviews recent research on understanding root system architecture and growth together with key interactions in the rhizosphere. Parts 2 and 3 assess how roots respond to biotic and abiotic stresses whilst Part 4 explores how this understanding can be used to optimise root function.

See what others are saying about Crop root function:

"The proposed book is timely and highly relevant, given the advances accomplished in this topic over recent years. Its content provides a comprehensive compilation of current knowledge by well-recognized experts in the field. This book promises to be a standard reference for scientists and students in plant and agricultural science around the world."

Dr Philippe Hinsinger, Head of Environment and Agronomy Division, INRA, France



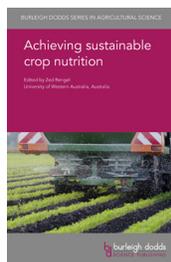
Biostimulants for sustainable crop production

Editor Prof. Youssef Rouphael et al., University of Naples, Italy

ISBN - print 978-1-78676-336-5
 ISBN - ePub 978-1-78676-338-9
 ISBN - ePDF 978-1-78676-339-6
Pages 320
Pub. Date April 2020
Price £150/\$195/€180/C\$255
Series No AS84

NEW

Part 1 reviews ways of classifying biostimulants, types of bioactive compound and ways of evaluating biostimulants. Part 2 surveys the various types of biostimulant, from humic substances and seaweed extracts to protein hydrolysates. Part 3 discusses advances in designing second-generation biostimulants and their practical application.



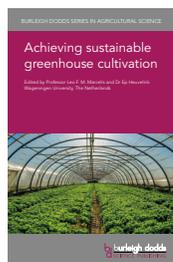
Achieving sustainable crop nutrition

Editor Prof. Zed Rengel, University of Western Australia, Australia

ISBN - print 978-1-78676-312-9
 ISBN - ePub 978-1-78676-314-3
 ISBN - ePDF 978-1-78676-315-0
Pages 520
Pub. Date February 2020
Price £210/\$275/€250/C\$360
Series No AS76

NEW

This collection reviews current research on understanding nutrient cycles, the ways crops process nutrients, the environmental effects of fertilizer use and how this understanding can be used to improve nutrient use efficiency for a more resource-efficient and climate-smart agriculture.



Achieving sustainable greenhouse cultivation

Editors Prof. Leo F. M. Marcelis and Dr Ep Heuvelink, Wageningen University, The Netherlands

ISBN - print 978-1-78676-280-1
 ISBN - ePub 978-1-78676-282-5
 ISBN - ePDF 978-1-78676-283-2
Pages 538
Pub. Date September 2019
Price £170/\$220/€205/C\$290
Series No AS63

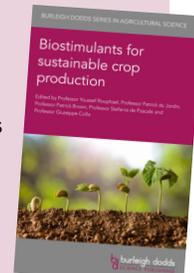
NEW

Greenhouse and other forms of protected cultivation create controlled environments to offset climate change and optimise resource use. This book reviews current research in more efficient design, crop management and system control to optimise greenhouse use.

See what others are saying about Biostimulants:

"It is good news that a distinguished editor team led by Professor Youssef Rouphael is putting together Biostimulants for sustainable crop production. The interest in biostimulants is constantly increasing, making a book on this topic, written by a team of internationally-renowned scientists, timely and very welcome."

Professor Dimitrios Savvas, Agricultural University of Athens, Greece



PESTS & DISEASES

**Biopesticides for sustainable agriculture**

NEW
 Editors Prof. Nick Birch, James Hutton Institute, UK and Prof. Travis Glare, Lincoln University, New Zealand
 ISBN - print 978-1-78676-356-3
 ISBN - ePub 978-1-78676-358-7
 ISBN - ePDF 978-1-78676-359-4
 Pages 300
 Pub. Date March 2020
 Price £150/\$195/€180/C\$255
 Series No AS89

Part 1 of this collection reviews research on developing and assessing new biopesticides. Part 2 summarises advances in different types of entomopathogenic biopesticide. Part 3 assesses semiochemical, peptide-based and other natural substance-based biopesticides.

**Integrated management of insect pests: Current and future developments**

NEW
 Editors Emeritus Prof. Marcos Kogan, Oregon State Univ., USA and Emeritus Prof. E. A. Heinrichs, Univ. of Nebraska-Lincoln, USA
 ISBN - print 978-1-78676-260-3
 ISBN - ePub 978-1-78676-262-7
 ISBN - ePDF 978-1-78676-263-4
 Pages 1004
 Pub. Date October 2019
 Price £210/\$275/€250/C\$360
 Series No AS69

This volume reviews current developments in integrated pest management (IPM), focussing on insect pests. It discusses advances in understanding species and landscape ecology on which IPM is founded, as well as advances in cultural, physical and biological methods of control.

**Integrated management of diseases and insect pests of tree fruit**

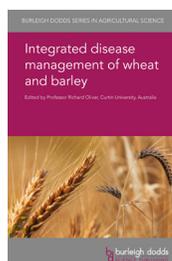
NEW
 Editors Prof. Xiangming Xu and Dr Michelle Fountain, NIAB-EMR, UK
 ISBN - print 978-1-78676-256-6
 ISBN - ePub 978-1-78676-258-0
 ISBN - ePDF 978-1-78676-259-7
 Pages 748
 Pub. Date September 2019
 Price £210/\$275/€250/C\$360
 Series No AS68

In the light of increasing restrictions on pesticides, this collection reviews advances in understanding key diseases and insect pests of tree fruit. It shows how this understanding can be used to improve integrated disease and pest management techniques.

**Critical issues in plant health: 50 years of research in African agriculture**

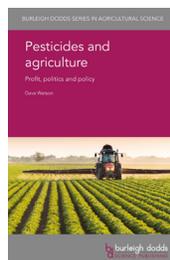
NEW
 Editors Dr Peter Neuenschwander and Dr Manuele Tamò, IITA, Benin
 ISBN - print 978-1-78676-232-0
 ISBN - ePub 978-1-78676-234-4
 ISBN - ePDF 978-1-78676-235-1
 Pages 492
 Pub. Date February 2019
 Price £170/\$220/€205/C\$290
 Series No AS58

This collection summarises 50 years of research on plant health by the International Institute of Tropical Agriculture (IITA) to improve the health of crops in Africa. It will be a standard reference on improving the management of pests and diseases in developing countries.

**Integrated disease management of wheat and barley**

Editor Prof. Richard Oliver, Curtin University, Australia
 ISBN - print 978-1-78676-216-0
 ISBN - ePub 978-1-78676-218-4
 ISBN - ePDF 978-1-78676-219-1
 Pages 366
 Pub. Date October 2018
 Price £200/\$260/€240/C\$340
 Series No AS19

Diseases remain a serious problem in cereal cultivation. The first parts of the book review current research on fungal diseases of cereals and the challenge of fungicide resistance. The book then discusses breeding resistant varieties and methods for integrated disease management of cereals.

**Pesticides and agriculture: Profit, politics and policy**

Author Dave Watson
 ISBN - print 978-1-78676-276-4
 ISBN - ePub 978-1-78676-278-8
 ISBN - ePDF 978-1-78676-279-5
 Pages 418
 Pub. Date August 2018
 Price £190/\$245/€230/C\$325
 Series No AS67

Pesticides have played a critical but sometimes controversial role in the development of agriculture. This book provides an authoritative account of the development of the modern pesticides industry in the context of broader developments in global agriculture.

**Integrated weed management for sustainable agriculture**

Editors Robert L. Zimdahl, Prof. Emeritus, Colorado State University, USA
 ISBN - print 978-1-78676-164-4
 ISBN - ePub 978-1-78676-166-8
 ISBN - ePDF 978-1-78676-167-5
 Pages 476
 Pub. Date December 2017
 Price £230/\$300/€275/C\$390
 Series No AS42

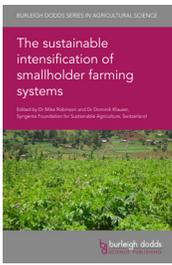
Weeds remain a major obstacle to improved yields in agriculture. At the same time, established methods of control are being undermined by problems such as herbicide resistance. This major collection reviews key developments in integrated weed management (IWM) to manage weeds more sustainably.

**Rice insect pests and their management**

Authors E. A. Heinrichs, Francis E. Nwilene, Michael J. Stout, Buyung A. R. Hadi & Thais Freitas
 ISBN - print 978-1-78676-196-5
 ISBN - ePub 978-1-78676-198-9
 ISBN - ePDF 978-1-78676-199-6
 Pages 292
 Pub. Date June 2017
 Price £200/\$260/€240/C\$340
 Series No AS50

This book uses the unique expertise of leading rice entomologists from Africa, Asia and the Americas to provide the first global coverage of rice insect pests. It covers 150 individual pests, including images, as well as integrated pest management techniques to deal with them.

SUSTAINABILITY & ORGANIC



The sustainable intensification of smallholder farming systems

NEW

Editors Dr Mike Robinson and Dr Dominik Klauer, Syngenta Foundation for Sustainable Agriculture, Switzerland
ISBN - print 978-1-78676-430-0
ISBN - ePub 978-1-78676-432-4
ISBN - ePDF 978-1-78676-433-1
Pages 460
Pub. Date August 2020
Price £180/\$235/€215/C\$305
Series No AS93

This volume reviews recent research on effective support to improve smallholder livelihoods. After discussing the economics of smallholder farming, the book looks at access to key inputs before assessing ways of improving extension and other services to support sustainable practices.

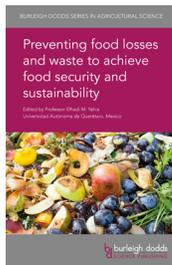


Reconciling agricultural production with biodiversity conservation

NEW

Editors Prof. Paolo Barberi and Dr Anna-Camilla Moonen, Scuola Superiore Sant'Anna, Italy
ISBN - print 978-1-78676-348-8
ISBN - ePub 978-1-78676-350-1
ISBN - ePDF 978-1-78676-351-8
Pages 280
Pub. Date June 2020
Price £150/\$195/€180/C\$255
Series No AS87

The first part of this volume assesses general issues such as landscape approaches, mapping and modelling. Part 2 reviews management practices promoting biodiversity such as field margins, hedgerows, improved pasture management and agroforestry.

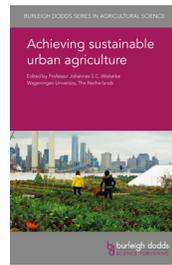


Preventing food losses and waste to achieve food security and sustainability

NEW

Editor Prof. Elhadi M. Yahia, Universidad Autónoma de Querétaro, Mexico
ISBN - print 978-1-78676-300-6
ISBN - ePub 978-1-78676-302-0
ISBN - ePDF 978-1-78676-303-7
Pages 500
Pub. Date March 2020
Price £210/\$275/€250/C\$360
Series No AS70

Around one third of all food production is lost or wasted. This book provides a comprehensive review of the causes and prevention of food losses and waste at key steps in the supply chain, for different commodities and across particular regions.



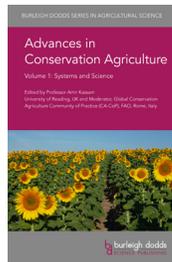
Achieving sustainable urban agriculture

NEW

Editor Prof. Johannes C. C. Wiskerke, Wageningen University, The Netherlands
ISBN - print 978-1-78676-316-7
ISBN - ePub 978-1-78676-318-1
ISBN - ePDF 978-1-78676-319-8
Pages 320
Pub. Date February 2020
Price £150/\$195/€180/C\$255
Series No AS77

© Cover Image Brooklyn Grange Rooftop Farm

This volume reviews research on building urban and peri-urban agricultural networks, the use of technologies such as rooftop and vertical farming systems, as well as providing case studies of particular products from urban farming.

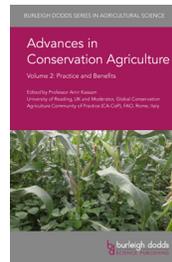


Advances in Conservation Agriculture - Vol 1 Systems and Science

NEW

Editor Prof. Amir Kassam, University of Reading, UK
ISBN - print 978-1-78676-264-1
ISBN - ePub 978-1-78676-266-5
ISBN - ePDF 978-1-78676-267-2
Pages 602
Pub. Date January 2020
Price £150/\$195/€180/C\$255
Series No AS61

By focussing on soil health, Conservation Agriculture (CA) is seen as more sustainable than conventional production. This volume summarises research on key components for successful CA including no-till techniques, soil cover and cropping systems as well as the role of livestock and agroforestry.

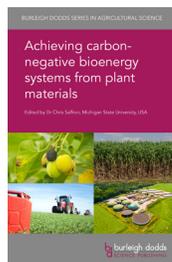


Advances in Conservation Agriculture - Vol 2 Practice and Benefits

NEW

Editor Prof. Amir Kassam, University of Reading, UK
ISBN - print 978-1-78676-268-9
ISBN - ePub 978-1-78676-270-2
ISBN - ePDF 978-1-78676-271-9
Pages 498
Pub. Date January 2020
Price £150/\$195/€180/C\$255
Series No AS62

Volume 2 reviews research on optimising Conservation Agricultural (CA) practices and their benefits. Chapters cover soil management, crop nutrition and irrigation, pest and disease management, as well as broader issues such as managing carbon, biodiversity and ecosystem services.



Achieving carbon negative bioenergy systems from plant systems

NEW

Editor Dr Chris Saffron, Michigan State University, USA
ISBN - print 978-1-78676-252-8
ISBN - ePub 978-1-78676-254-2
ISBN - ePDF 978-1-78676-255-9
Pages 300
Pub. Date January 2020
Price £150/\$195/€180/C\$255
Series No AS64

This collection reviews advances in producing next-generation biofuels from plant materials. Part 1 discusses technologies such as biomass gasification, fast pyrolysis and torrefaction. Part 2 assesses advances in production of biofuels from crops such as jatropha, oilseeds, *Miscanthus* and switchgrass.

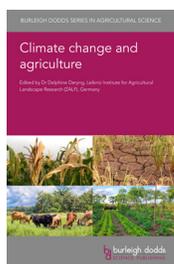
What others are saying about Conservation Agriculture Vols 1 & 2:

“This edifying book is a compendium of much of what we have learnt across the world about CA...It will serve as an immensely valuable source of reference - and inspiration - for all those who are committed to putting the world’s food systems on a truly sustainable footing.”

Qu Dongyu, Director General of the UN Food and Agriculture Organization (FAO)



SUSTAINABILITY & ORGANIC



Climate change and agriculture
 Editor Dr Delphine Deryng, Leibniz Center for Agricultural Landscape Research (ZALF), Germany
 ISBN - print 978-1-78676-320-4
 ISBN - ePub 978-1-78676-322-8
 ISBN - ePDF 978-1-78676-323-5
 Pages 300
 Pub. Date April 2020
 Price £150/\$195/€180/C\$255
 Series No AS78

NEW

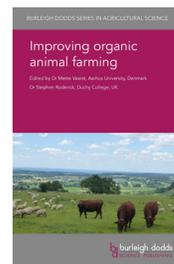
Part 1 of this collection reviews current research on the impacts of climate change on agriculture. Part 2 assesses what we know about the contribution of agriculture to climate change, whilst Part 3 surveys mitigation strategies to achieve a more 'climate-smart' agriculture.



Assessing the environmental impact of agriculture
 Editor Prof. Bo P. Weidema, Aalborg University, Denmark
 ISBN - print 978-1-78676-228-3
 ISBN - ePub 978-1-78676-230-6
 ISBN - ePDF 978-1-78676-231-3
 Pages 386
 Pub. Date August 2019
 Price £160/\$210/€190/C\$270
 Series No AS57

NEW

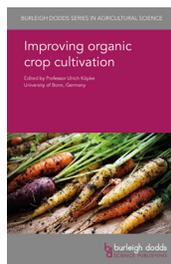
This book reviews key methods for measuring the environmental impact of agriculture. Part 1 reviews life cycle assessment (LCA) methodology. Part 2 reviews ways of modelling particular types of impact whilst the final part covers particular agricultural sectors.



Improving organic animal farming
 Editor Dr Mette Vaarst, Aarhus University, Denmark and Dr Stephen Roderick, Duchy College, UK
 ISBN - print 978-1-78676-180-4
 ISBN - ePub 978-1-78676-182-8
 ISBN - ePDF 978-1-78676-183-5
 Pages 406
 Pub. Date March 2019
 Price £170/\$220/€205/C\$290
 Series No AS46

NEW

This collection addresses recent research on challenges facing organic animal farming such as more targeted breeding, improved grazing and feed rations, better methods of health and disease management as well as ways of enhancing animal welfare.



Improving organic crop cultivation
 Editor Prof. Ulrich Köpke, University of Bonn, Germany
 ISBN - print 978-1-78676-184-2
 ISBN - ePub 978-1-78676-186-6
 ISBN - ePDF 978-1-78676-187-3
 Pages 568
 Pub. Date November 2018
 Price £210/\$275/€250/C\$355
 Series No AS47

Organic crop cultivation needs to improve yields if it is to expand its share of agricultural production. This collection reviews ways of addressing this challenge, from developing better varieties to ways of improving crop nutrition and pest control.

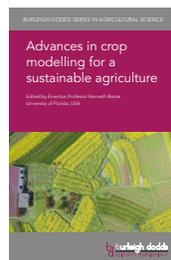
TECHNOLOGY & DATA



Improving data management and decision support systems in agriculture
 Editor Dr Leisa Armstrong, Edith Cowan University, Australia
 ISBN - print 978-1-78676-340-2
 ISBN - ePub 978-1-78676-342-6
 ISBN - ePDF 978-1-78676-343-3
 Pages 300
 Pub. Date March 2020
 Price £160/\$210/€190/C\$270
 Series No AS85

NEW

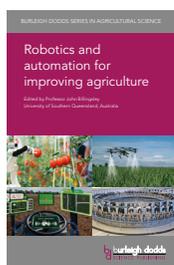
Part 1 reviews general issues underpinning effective decision support systems (DSS) such as data access, standards, tagging and security. Part 2 contains case studies of the practical application of DSS in areas such as crop nutrition and rotations, livestock feed and pasture management.



Advances in crop modelling for a sustainable agriculture
 Editor Emeritus Prof. Kenneth Boote, University of Florida, USA
 ISBN - print 978-1-78676-240-5
 ISBN - ePub 978-1-78676-242-9
 ISBN - ePDF 978-1-78676-243-6
 Pages 542
 Pub. Date December 2019
 Price £180/\$235/€215/C\$305
 Series No AS75

NEW

Chapters in Part 1 review advances in modelling individual components of agricultural systems. Part 2 addresses the challenges of combining modular sub-systems into whole farm system, landscape and regional models. The final part of the book reviews wider issues in improving model reliability.



Robotics and automation for improving agriculture
 Editor Prof. John Billingsley, University of Southern Queensland, Australia
 ISBN - print 978-1-78676-272-6
 ISBN - ePub 978-1-78676-274-0
 ISBN - ePDF 978-1-78676-275-7
 Pages 326
 Pub. Date June 2019
 Price £160/\$210/€190/C\$270
 Series No AS44

NEW

Robotics has great potential in improving productivity and precision in agriculture. The book reviews advances in technologies such as machine vision and control systems, as well as applications from crop planting, fertilisation, pest and weed management to livestock production.



Precision agriculture for sustainability
 Editor Dr John Stafford, Silsoe Solutions, UK
 ISBN - print 978-1-78676-204-7
 ISBN - ePub 978-1-78676-206-1
 ISBN - ePDF 978-1-78676-207-8
 Pages 514
 Pub. Date November 2018
 Price £180/\$235/€215/C\$305
 Series No AS52

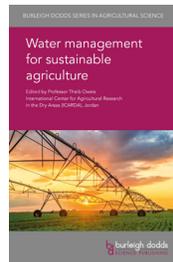
Chapters in Part 1 summarise developments in monitoring techniques. Part 2 discusses how information is processed to identify management zones and input targets. The final part of the book surveys the wide range of applications of precision agriculture.

SOIL & WATER MANAGEMENT



Advances in measuring soil health
 Editor Prof. Wilfried Otten, Cranfield University, UK
 ISBN - print 978-1-78676-426-3
 ISBN - ePub 978-1-78676-428-7
 ISBN - ePDF 978-1-78676-429-4
 Pages 420
 Pub. Date July 2020
 Price £180/\$235/€215/C\$305
 Series No AS92

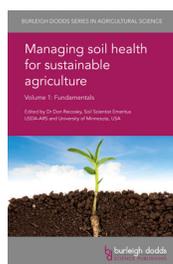
NEW



Water management for sustainable agriculture
 Editor Prof. Theib Oweis, International Center for Agricultural Research in the Dry Areas (ICARDA), Jordan
 ISBN - print 978-1-78676-176-7
 ISBN - ePub 978-1-78676-178-1
 ISBN - ePDF 978-1-78676-179-8
 Pages 612
 Pub. Date July 2018
 Price £230/\$300/€275/C\$390
 Series No AS45

This volume begins with a review of advances in measuring soil biological activity. Parts 2 and 3 survey developments in measuring soil physical and chemical properties. The collection concludes by reviewing soil health indicators and decision support systems for improving soil management.

There is increasing competition for water resources with declining aquifer reserves and lower rainfall in some areas due to climate change. This volume reviews research into topics such as more sustainable use of groundwater, more efficient irrigation techniques and water management.



Managing soil health for sustainable agriculture - Vol 1: Fundamentals
 Editor Dr Don Reicosky, Soil Scientist Emeritus USDA-ARS and University of Minnesota, USA
 ISBN - print 978-1-78676-188-0
 ISBN - ePub 978-1-78676-190-3
 ISBN - ePDF 978-1-78676-191-0
 Pages 352
 Pub. Date August 2018
 Price £160/\$210/€190/C\$270
 Series No AS48

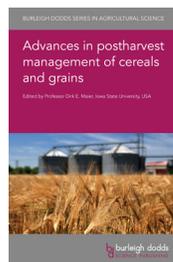


Managing soil health for sustainable agriculture - Vol 2: Monitoring and management
 Editor Dr Don Reicosky, Soil Scientist Emeritus USDA-ARS and University of Minnesota, USA
 ISBN - print 978-1-78676-192-7
 ISBN - ePub 978-1-78676-194-1
 ISBN - ePDF 978-1-78676-195-8
 Pages 462
 Pub. Date August 2018
 Price £200/\$260/€240/C\$340
 Series No AS49

There is a growing concern that both intensive agriculture in the developed world and rapid expansion of agriculture in the developing world is damaging soil health. This volume reviews advances in our understanding of soil structure and dynamics which form the foundation for effective soil management.

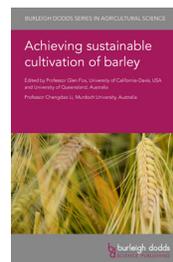
Soil health is critical to successful agriculture. This second volume reviews ways of classifying and measuring soils and their properties. It then discusses ways soil health can be maintained or enhanced to ensure sustainable agricultural production, as well as regional case studies of managing soil health in practice.

CEREALS



Advances in postharvest management of cereals and grains
 Editor Prof. Dirk E. Maier, Iowa State University, USA
 ISBN - print 978-1-78676-352-5
 ISBN - ePub 978-1-78676-354-9
 ISBN - ePDF 978-1-78676-355-6
 Pages 300
 Pub. Date May 2020
 Price £150/\$195/€180/C\$255
 Series No AS88

NEW

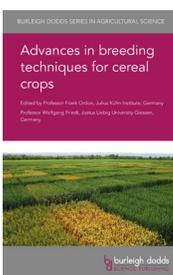


Achieving sustainable cultivation of barley
 Editors Prof. Glen Fox, University of California-Davis, USA and Prof. Chengdao Li, Murdoch University, Australia
 ISBN - print 978-1-78676-308-2
 ISBN - ePub 978-1-78676-310-5
 ISBN - ePDF 978-1-78676-311-2
 Pages 526
 Pub. Date February 2020
 Price £170/\$220/€205/C\$290
 Series No AS74

NEW

Part 1 of this collection assesses the causes of postharvest losses. Part 2 reviews advances in storage technologies, including management of insect pests using techniques such as fumigation, controlled atmospheres and biopesticides, as well as control of fungal contamination.

This collection reviews advances in understanding barley physiology and genetics, molecular breeding and cultivation techniques, as well as disease and weed management. It also discusses advances in improving barley for end uses such as malting and brewing.



Advances in breeding techniques for cereal crops
 Editors Prof. Frank Ordon, Julius Kuhn Institute (JKI), Germany and Prof. Wolfgang Friedt, Justus-Liebig Univ. of Giessen, Germany
 ISBN - print 978-1-78676-244-3
 ISBN - ePub 978-1-78676-246-7
 ISBN - ePDF 978-1-78676-274-4
 Pages 612
 Pub. Date June 2019
 Price £190/\$245/€230/C\$325
 Series No AS60

NEW

This collection reviews key advances in cereals breeding. It looks at advances in exploiting genetic diversity, the use of doubled haploids and hybrid breeding. The book also reviews developments in phenotyping, the use of genetic markers and techniques such as genomic selection.

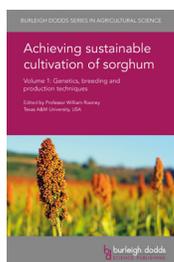
What others are saying about Postharvest:

"This authoritative handbook, edited by leading international grain engineering scientist, Professor Dirk E. Maier, outlines and illustrates how to minimize/eliminate post-harvest spoilage losses. With contributions by leading international authorities, it highlights the causes and provides the needed science and technology to prevent postharvest spoilage losses. It will be a standard text for educating future post-harvest grain scientists and technicians and fills a critical information gap."

Emeritus Prof. Ronald T. Noyes, Oklahoma State University, USA



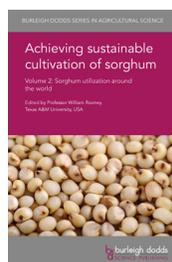
CEREALS


Achieving sustainable cultivation of sorghum - Vol 1
 Genetics, breeding and production techniques

Editor Prof. William Rooney,
Texas A&M University, USA

ISBN - print 978-1-78676-120-0
 ISBN - ePub 978-1-78676-122-4
 ISBN - ePDF 978-1-78676-123-1
 Pages 546
 Pub. Date July 2018
 Price £180/\$235/€215/C\$305
 Series No AS31

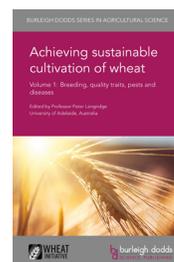
Sorghum is the fifth most important cereal crop (after rice, maize, wheat and barley). The first volume in this two-volume collection reviews advances in understanding sorghum physiology and genetics as well as developments in breeding new varieties and their more efficient cultivation.


Achieving sustainable cultivation of sorghum - Vol 2
 Sorghum utilization around the world

Editor Prof. William Rooney,
Texas A&M University, USA

ISBN - print 978-1-78676-124-8
 ISBN - ePub 978-1-78676-126-2
 ISBN - ePDF 978-1-78676-127-9
 Pages 260
 Pub. Date April 2018
 Price £130/\$170/€155/C\$220
 Series No AS32

Volume 2 in this sequence summarises key research on the wide range of uses of sorghum as food, animal feed and for biofuel. It also assesses the challenges of growing sorghum in different parts of the world and how these are being addressed.


Achieving sustainable cultivation of wheat - Vol 1
 Breeding, quality traits, pests and diseases

Editor Prof. Peter Langridge,
The University of Adelaide, Australia

ISBN - print 978-1-78676-016-6
 ISBN - ePub 978-1-78676-018-0
 ISBN - ePDF 978-1-78676-019-7
 Pages 686
 Pub. Date July 2017
 Price £210/\$275/€250/C\$355
 Series No AS05

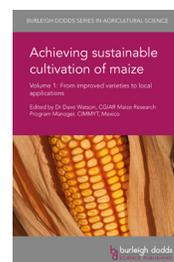
This book reviews advances in breeding techniques as well as their application to produce drought-resistant and other improved varieties. It also discusses wheat nutritional quality. Finally it reviews developments such as disease-resistant varieties and other techniques to combat pests and diseases.


Achieving sustainable cultivation of wheat - Vol 2
 Cultivation techniques

Editor Prof. Peter Langridge,
The University of Adelaide, Australia

ISBN - print 978-1-78676-020-3
 ISBN - ePub 978-1-78676-022-7
 ISBN - ePDF 978-1-78676-023-4
 Pages 350
 Pub. Date July 2017
 Price £130/\$170/€155/C\$220
 Series No AS06

Volume 2 discusses ways of improving cultivation from variety selection to post-harvest storage. It reviews trends in integrated crop management, sustainable intensification and organic cultivation before concluding by looking at ways of supporting smallholders in the developing world.


Achieving sustainable cultivation of maize - Vol 1
 From improved varieties to local applications

Editor Dr Dave Watson, formerly CGIAR
Maize Research Program
Manager, CIMMYT, Mexico

ISBN - print 978-1-78676-008-1
 ISBN - ePub 978-1-78676-010-4
 ISBN - ePDF 978-1-78676-011-1
 Pages 348
 Pub. Date June 2017
 Price £150/\$195/€180/C\$255
 Series No AS01

This volume focuses on breeding new varieties with desirable traits such as drought tolerance and improved nutritional value as well as how such innovations can be successfully deployed in the developing world.


Achieving sustainable cultivation of maize - Vol 2
 Cultivation techniques, pest and disease control

Editor Dr Dave Watson, formerly CGIAR
Maize Research Program
Manager, CIMMYT, Mexico

ISBN - print 978-1-78676-012-8
 ISBN - ePub 978-1-78676-014-2
 ISBN - ePDF 978-1-78676-015-9
 Pages 470
 Pub. Date July 2017
 Price £190/\$245/€230/C\$325
 Series No AS02

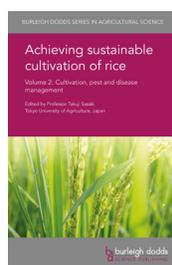
Volume 2 covers methods for improving maize cultivation, from seed selection to nutrition, irrigation and techniques such as intercropping. It also reviews research on key pests and diseases and methods for their control in making cultivation more efficient and sustainable.


Achieving sustainable cultivation of rice - Vol 1
 Breeding for higher yield and quality

Editor Prof. Takuji Sasaki,
Tokyo University of Agriculture, Japan

ISBN - print 978-1-78676-024-1
 ISBN - ePub 978-1-78676-026-5
 ISBN - ePDF 978-1-78676-027-2
 Pages 298
 Pub. Date May 2017
 Price £140/\$180/€170/C\$240
 Series No AS03

This collection reviews advances in breeding techniques as well as improving traits such as flood or drought resistance. It also discusses advances in understanding the nutritional role of rice and ways this can be enhanced to feed a growing population.

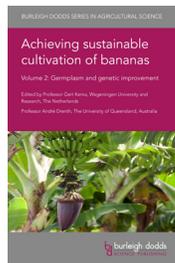

Achieving sustainable cultivation of rice - Vol 2
 Cultivation techniques, pest and disease control

Editor Prof. Takuji Sasaki,
Tokyo University of Agriculture, Japan

ISBN - print 978-1-78676-028-9
 ISBN - ePub 978-1-78676-030-2
 ISBN - ePDF 978-1-78676-031-9
 Pages 438
 Pub. Date May 2017
 Price £150/\$195/€180/C\$255
 Series No AS04

Volume 2 reviews ways of improving cultivation of rice, from planting to soil management, nutrition and irrigation as well as techniques such as integrated crop management. It also discusses key pests and diseases and methods for their control in making cultivation more productive and sustainable.

HORTICULTURE: TREE FRUIT & NUTS

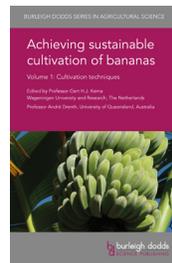


Achieving sustainable cultivation of bananas - Vol 2: Germplasm and genetic improvement **NEW**

Editors Prof. Gert H. J. Kema, Wageningen University & Research, The Netherlands & Prof. André Drenth, University of Queensland, Australia

ISBN - print 978-1-78676-344-0
 ISBN - ePub 978-1-78676-346-4
 ISBN - ePDF 978-1-78676-347-1
 Pages 380
 Pub. Date May 2020
 Price £170/\$220/€205/C\$290
 Series No AS86

Volume 2 begins with a discussion of progress in identifying and broadening the genetic base for *Musa* species. This provides the foundation for Parts 3 and 4 which review advances in both conventional and recent molecular breeding techniques and their application in producing improved varieties.

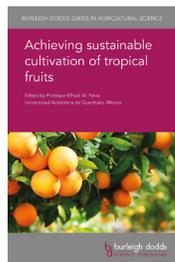


Achieving sustainable cultivation of bananas - Vol 1: Cultivation techniques

Editors Prof. Gert H. J. Kema, Wageningen University & Research, The Netherlands & Prof. André Drenth, University of Queensland, Australia

ISBN - print 978-1-78676-156-9
 ISBN - ePub 978-1-78676-158-3
 ISBN - ePDF 978-1-78676-159-0
 Pages 378
 Pub. Date October 2018
 Price £180/\$235/€215/C\$305
 Series No AS40

Bananas are the world's most popular fruit and the fourth most important crop in the developing world after rice, wheat and maize. The volume reviews current production around the world and how developments in cultivation practice can be used to improve yields sustainably.

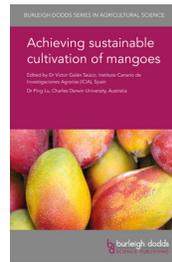


Achieving sustainable cultivation of tropical fruits **NEW**

Editor Prof. Elhadi M. Yahia, Universidad Autónoma de Querétaro, Mexico

ISBN - print 978-1-78676-284-9
 ISBN - ePub 978-1-78676-286-3
 ISBN - ePDF 978-1-78676-287-0
 Pages 644
 Pub. Date December 2019
 Price £210/\$275/€250/C\$360
 Series No AS65

This book reviews recent research on breeding and cultivation of citrus and other key tropical and subtropical fruits. Fruits discussed include avocado, banana, coconut, guava, jackfruit, lychee, mango, papaya and pomegranate.

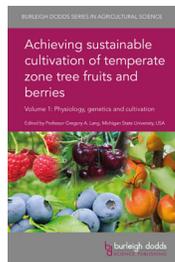


Achieving sustainable cultivation of mangoes

Editors Dr Víctor Galán Saúco, Instituto Canario de Investigaciones Agrarias (ICIA), Spain and Dr Ping Lu, Charles Darwin University, Australia

ISBN - print 978-1-78676-132-3
 ISBN - ePub 978-1-78676-134-7
 ISBN - ePDF 978-1-78676-135-4
 Pages 570
 Pub. Date February 2018
 Price £190/\$245/€230/C\$325
 Series No AS34

Mangoes are grown widely across Asia, Africa, the Americas and Southern Europe. This volume summarises the wealth of recent research on enhancing mango cultivation. Topics include developments in understanding mango genetics and breeding as well as cultivation, pest and disease management.

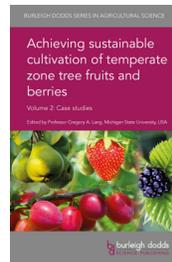


Achieving sustainable cultivation of temperate zone tree fruits and berries - Vol 1: Physiology, genetics and cultivation **NEW**

Editor Prof. Gregory A. Lang, Michigan State University, USA

ISBN - print 978-1-78676-208-5
 ISBN - ePub 978-1-78676-210-8
 ISBN - ePDF 978-1-78676-211-5
 Pages 520
 Pub. Date June 2019
 Price £140/\$180/€170/C\$240
 Series No AS53

Part 1 discusses current research on physiology, genetics and breeding. Part 2 reviews advances in cultivation from orchard design to optimising water and nutrient management and harvesting operations.



Achieving sustainable cultivation of temperate zone tree fruits and berries - Vol 2: Case studies **NEW**

Editor Prof. Gregory A. Lang, Michigan State University, USA

ISBN - print 978-1-78676-212-2
 ISBN - ePub 978-1-78676-214-6
 ISBN - ePDF 978-1-78676-215-3
 Pages 470
 Pub. Date June 2019
 Price £140/\$180/€170/C\$240
 Series No AS54

Part 1 discusses development affecting key stone fruits (peach, cherry, plum and apricot) and pome fruits (pear and apple). Part 2 reviews optimising the breeding and cultivation of berry fruits (strawberry, raspberry, blackberry and blueberry).

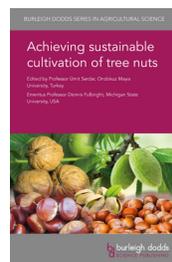


Achieving sustainable cultivation of apples

Editor Prof. Kate Evans, Washington State University, USA

ISBN - print 978-1-78676-032-6
 ISBN - ePub 978-1-78676-034-0
 ISBN - ePDF 978-1-78676-035-7
 Pages 616
 Pub. Date June 2017
 Price £220/\$285/€265/C\$375
 Series No AS18

This book reviews our understanding of tree and fruit physiology and how it can be used in breeding better varieties. It also discusses pests and diseases and ways they can be prevented or controlled to make cultivation more productive.



Achieving sustainable cultivation of tree nuts

Editors Prof. Ümit Serdar, Ondokuz Mayıs University, Turkey and Emeritus Prof. Dennis Fulbright, Michigan State University, USA

ISBN - print 978-1-78676-224-5
 ISBN - ePub 978-1-78676-226-9
 ISBN - ePDF 978-1-78676-227-6
 Pages 552
 Pub. Date July 2019
 Price £170/\$220/€205/C\$290
 Series No AS56

This collection reviews the wealth of research addressing key issues facing the cultivation of tree nuts. Part 1 discusses the health benefits of tree nuts. Part 2 reviews advances in breeding and cultivation of walnuts, almonds, chestnuts, pistachios and hazelnuts.

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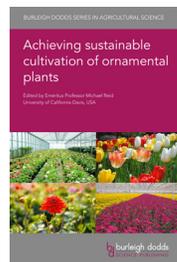
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HORTICULTURE: OTHER


Achieving sustainable cultivation of ornamental plants

Editor Emeritus Prof. Michael Reid, University of California-Davis, USA

ISBN - print 978-1-78676-328-0
 ISBN - ePub 978-1-78676-330-3
 ISBN - ePDF 978-1-78676-331-0
 Pages 280
 Pub. Date March 2020
 Price £150/\$195/€180/C\$255
 Series No AS82

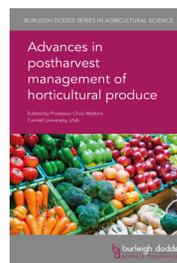
NEW

This collection reviews recent research in ornamentals. Part 1 discusses advances in understanding plant physiology, genetic diversity and breeding techniques. Part 2 surveys advances in cultivation techniques in areas such as nutrition, irrigation, protected cultivation and pest management.

See what others are saying about Ornamentals:

"This long-awaited book is a must read for anyone interested in the science underpinning current and future practices in the cultivation and postharvest management of ornamentals... This informative book will certainly takes its rightful place in the working collection of anyone interested in continuously expanding and deepening their existing knowledge on ornamentals."

Dr Lynn Hoffman, Stellenbosch University, South Africa

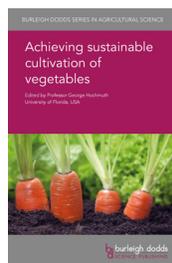

Advances in postharvest management of horticultural produce

Editor Prof. Chris Watkins, Cornell University, USA

ISBN - print 978-1-78676-288-7
 ISBN - ePub 978-1-78676-290-0
 ISBN - ePDF 978-1-78676-291-7
 Pages 464
 Pub. Date January 2020
 Price £150/\$195/€180/C\$255
 Series No AS66

NEW

Postharvest losses remain a serious problem in the fresh produce sector. This collection reviews advances in preservation and disinfection, monitoring and management techniques to optimise safety and quality of fresh fruit and vegetables.

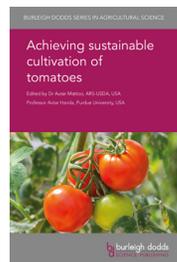

Achieving sustainable cultivation of vegetables

Editor Emeritus Prof. George Hochmuth, University of Florida, USA

ISBN - print 978-1-78676-236-8
 ISBN - ePub 978-1-78676-238-2
 ISBN - ePDF 978-1-78676-239-9
 Pages 644
 Pub. Date September 2019
 Price £180/\$235/€215/C\$305
 Series No AS59

NEW

This volume summarises the wealth of research on improving sustainability in vegetable cultivation. Part 1 reviews advances in physiology and breeding. Parts 2-3 summarise advances in cultivation and pest management. The final part includes case studies on the breeding and cultivation of key vegetables.


Achieving sustainable cultivation of tomatoes

Editors Dr. Autar Mattoo, ARS-USDA, USA and Prof. Avtar Handa, Purdue University, USA

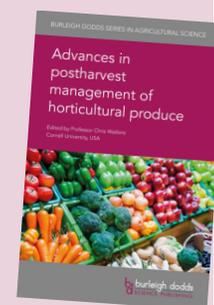
ISBN - print 978-1-78676-040-1
 ISBN - ePub 978-1-78676-042-5
 ISBN - ePDF 978-1-78676-043-2
 Pages 564
 Pub. Date March 2017
 Price £180/\$235/€215/C\$305
 Series No AS07

This book reviews key developments in tomato breeding, including developing improved varieties with desirable traits such as drought or pest resistance. It also discusses ways of improving cultivation techniques as well as pests, diseases and their control.

See what others are saying about Postharvest management of horticultural produce:

"Much is talked about food loss and waste but little is being done given the scale of the problem. Through experts in the field, this book provides insights into the management practices and latest technologies available. A great effort and many congratulations."

Professor Leon A. Terry, Cranfield University, UK



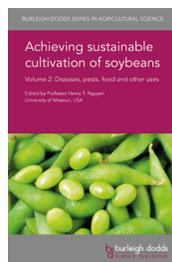
OIL BEARING CROPS


Achieving sustainable cultivation of soybeans - Vol 1
Breeding and cultivation techniques

Editor Prof. Henry T. Nguyen, University of Missouri, USA

ISBN - print 978-1-78676-112-5
 ISBN - ePub 978-1-78676-114-9
 ISBN - ePDF 978-1-78676-115-6
 Pages 340
 Pub. Date May 2018
 Price £140/\$180/€170/C\$240
 Series No AS29

Soybeans are widely grown for use in food, animal feed and other products such as biodiesel. The first of this two-volume collection reviews advances in understanding of soybean physiology and genetics as well as breeding and more efficient methods of cultivation.

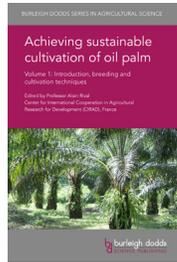

Achieving sustainable cultivation of soybeans - Vol 2
Diseases, pests, food and other uses

Editor Prof. Henry T. Nguyen, University of Missouri, USA

ISBN - print 978-1-78676-116-3
 ISBN - ePub 978-1-78676-118-7
 ISBN - ePDF 978-1-78676-119-4
 Pages 286
 Pub. Date February 2018
 Price £140/\$180/€170/C\$240
 Series No AS30

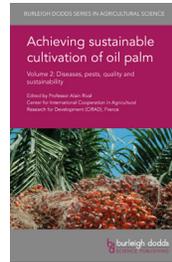
The second volume in this two-volume collection focusses on ways of improving the management of pests and diseases of soybeans. It also reviews research on improving the nutritional value and shelf-life of soybeans as well as its uses in animal feed and biodiesel.

OIL BEARING CROPS



Achieving sustainable cultivation of oil palm - Vol 1
Introduction, breeding and cultivation techniques
Editor Prof. Alain Rival, Center for International Cooperation in Agricultural Research for Development (CIRAD), France
ISBN - print 978-1-78676-104-0
ISBN - ePub 978-1-78676-106-4
ISBN - ePDF 978-1-78676-107-1
Pages 306
Pub. Date February 2018
Price £140/\$180/€170/C\$240
Series No AS27

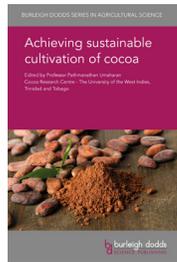
Palm oil is widely used for food processing, personal care products and as a biofuel. The cultivation of oil palm has raised concerns about sustainability. The first volume in this collection reviews research addressing these challenges in areas such as breeding and cultivation techniques.



Achieving sustainable cultivation of oil palm - Vol 2
Diseases, pests, quality and sustainability
Editor Prof. Alain Rival, Center for International Cooperation in Agricultural Research for Development (CIRAD), France
ISBN - print 978-1-78676-108-8
ISBN - ePub 978-1-78676-110-1
ISBN - ePDF 978-1-78676-111-8
Pages 462
Pub. Date March 2018
Price £180/\$235/€215/C\$305
Series No AS28

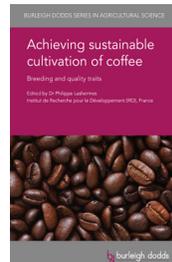
The second in this two-volume sequence discusses advances in understanding and managing pests and diseases. It also reviews ways of assessing its nutritional qualities as well as in measuring and minimising its environment impact.

BEVERAGE & SUGAR CROPS



Achieving sustainable cultivation of cocoa
Editor Prof. Pathmanathan Umaharan, Cocoa Research Centre – The University of the West Indies, Trinidad and Tobago
ISBN - print 978-1-78676-168-2
ISBN - ePub 978-1-78676-170-5
ISBN - ePDF 978-1-78676-171-2
Pages 588
Pub. Date August 2018
Price £230/\$300/€275/C\$390
Series No AS43

The first part of this book reviews research in breeding and agronomy. The book then discusses research on understanding and managing the range of diseases and insect pests affecting cocoa, as well as ways of measuring and improving the sustainability of cocoa cultivation.



Achieving sustainable cultivation of coffee
Breeding and quality traits
Editor Dr Philippe Lashermes, Institut de Recherche pour le Développement (IRD), France
ISBN - print 978-1-78676-152-1
ISBN - ePub 978-1-78676-154-5
ISBN - ePDF 978-1-78676-155-2
Pages 410
Pub. Date January 2018
Price £190/\$245/€230/C\$325
Series No AS39

This volume summarises research addressing key challenges in coffee cultivation, including genetic diversity and breeding improved varieties. Other chapters discuss how to measure and improve quality traits.



Global tea science
Current status and future needs
Editors Dr V. S. Sharma, formerly of the UPASI Tea Research Institute, India & Dr M. T. Kumudini Gunasekare, formerly Tea Research Institute, Sri Lanka
ISBN - print 978-1-78676-160-6
ISBN - ePub 978-1-78676-162-0
ISBN - ePDF 978-1-78676-163-7
Pages 558
Pub. Date February 2018
Price £210/\$275/€250/C\$360
Series No AS41

Tea cultivation faces a range of challenges in improving yields. The various parts of the book review ways of addressing these challenges, from breeding and cultivation to plant protection and improving sustainability.

See what others are saying about Coffee:

"This book on the recent advances in coffee research will help to meet the current challenges facing sustainable coffee production. This book is the most up-to-date synthesis on major advances in coffee science, written by a large panel of researchers involved in international coffee research projects, in collaboration with the coffee industry worldwide."

Emeritus Professor Andre Charrier, Montpellier SupAgro, France



Achieving sustainable cultivation of sugarcane - Vol 1
Cultivation techniques, quality and sustainability
Editor Prof. Philippe Rott, University of Florida, USA
ISBN - print 978-1-78676-144-6
ISBN - ePub 978-1-78676-146-0
ISBN - ePDF 978-1-78676-147-7
Pages 360
Pub. Date November 2017
Price £160/\$210/€190/C\$270
Series No AS37

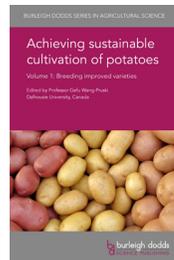
Sugarcane is the source of 80% of the world's sugar. This volume reviews key research on improving sugarcane production, focussing on enhancing cultivation techniques such as irrigation and nutrient management as well as measuring and improving sustainability.



Achieving sustainable cultivation of sugarcane - Vol 2
Breeding, pests and diseases
Editor Prof. Philippe Rott, University of Florida, USA
ISBN - print 978-1-78676-148-4
ISBN - ePub 978-1-78676-150-7
ISBN - ePDF 978-1-78676-151-4
Pages 468
Pub. Date March 2018
Price £180/\$235/€215/C\$305
Series No AS38

Sugarcane cultivation faces a range of challenges to improve yields sustainably. This volumes reviews how these challenges can be addressed through developments in breeding as well as better management of pests and diseases.

ROOTS, TUBERS & PULSES

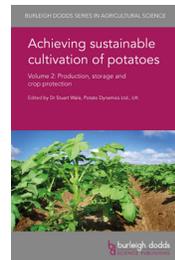


Achieving sustainable cultivation of potatoes - Vol 1

Breeding improved varieties

Editor Prof. Gefu Wang-Pruski,
Dalhousie University, Canada

ISBN - print 978-1-78676-100-2
ISBN - ePub 978-1-78676-102-6
ISBN - ePDF 978-1-78676-103-3
Pages 320
Pub. Date August 2018
Price £150/\$195/€180/C\$255
Series No AS26



Achieving sustainable cultivation of potatoes - Vol 2

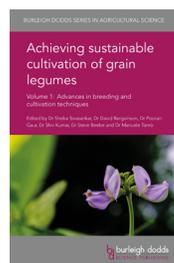
Production, storage and crop protection

Editor Dr Stuart Wale,
Potato Dynamics Ltd., UK

ISBN - print 978-1-78676-128-6
ISBN - ePub 978-1-78676-130-9
ISBN - ePDF 978-1-78676-131-6
Pages 328
Pub. Date September 2018
Price £170/\$220/€205/C\$290
Series No AS33

Potatoes have long been one of the world's most important crops. The first volume in this two-volume collection reviews advances in understanding plant physiology, genetics and breeding. It also discusses ways of improving the nutritional and sensory properties of potatoes.

Volume 2 discusses ways of improving cultivation across the supply chain from seed selection and planting to post-harvest storage. It also reviews research on the better understanding and management of key pests and diseases as well as ways of improving sustainability.

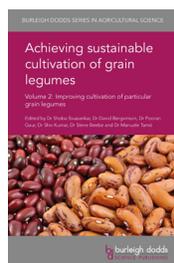


Achieving sustainable cultivation of grain legumes - Vol 1

Advances in breeding and cultivation techniques

Editor Dr Shoba Sivasankar et al., formerly
CGIAR Research Program on Grain Legumes, ICRISAT, India

ISBN - print 978-1-78676-136-1
ISBN - ePub 978-1-78676-138-5
ISBN - ePDF 978-1-78676-139-2
Pages 432
Pub. Date March 2018
Price £190/\$245/€230/C\$325
Series No AS35



Achieving sustainable cultivation of grain legumes - Vol 2

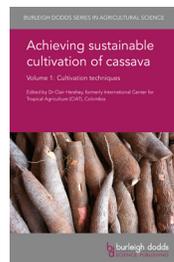
Improving cultivation of particular grain legumes

Editor Dr Shoba Sivasankar et al., formerly
CGIAR Research Program on Grain Legumes, ICRISAT, India

ISBN - print 978-1-78676-140-8
ISBN - ePub 978-1-78676-142-2
ISBN - ePDF 978-1-78676-143-9
Pages 398
Pub. Date January 2018
Price £170/\$220/€205/C\$290
Series No AS36

Grain legumes are widely seen as a key food security crop in the developing world. This major two-collection reviews the wealth of recent research on improving cultivation of this major crop. This first volume ranges from plant physiology and breeding through to better cultivation techniques.

The second volume in this collection focusses on improving the cultivation of particular grain legumes, starting with common beans, chickpeas, lentils, soybeans and groundnuts. A second group of chapters discusses cowpea, faba beans and pigeonpea.

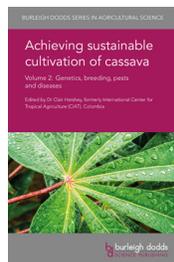


Achieving sustainable cultivation of cassava - Vol 1

Cultivation techniques

Editor Dr Clair Hershey, formerly International
Center for Tropical Agriculture (CIAT),
Colombia

ISBN - print 978-1-78676-000-5
ISBN - ePub 978-1-78676-002-9
ISBN - ePDF 978-1-78676-003-6
Pages 424
Pub. Date July 2017
Price £190/\$245/€230/C\$325
Series No AS20



Achieving sustainable cultivation of cassava - Vol 2

Genetics, breeding, pests and diseases

Editor Dr Clair Hershey, formerly International
Center for Tropical Agriculture (CIAT),
Colombia

ISBN - print 978-1-78676-004-3
ISBN - ePub 978-1-78676-006-7
ISBN - ePDF 978-1-78676-007-4
Pages 322
Pub. Date August 2017
Price £140/\$180/€170/C\$240
Series No AS21

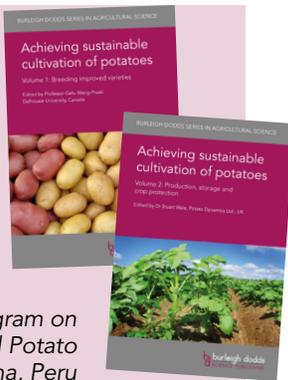
This collection begins by reviewing the current state of cassava cultivation, before going on to review the range of techniques enabling sustainable intensification, from seed systems management to intercropping and post-harvest management.

Volume 2 reviews genetic resources and breeding techniques as well as their use to produce varieties with traits such as enhanced resistance to biotic and abiotic stresses. It also discusses key pests and diseases and their management in making cultivation more efficient and sustainable.

See what others are saying about Potatoes:

"Sustainable potato cultivation means simultaneously addressing and resolving a complex set of varied and interlinked context-specific constraints. These books promise to rise to the occasion with a talented cast of authors who span the disciplinary spectrum from genetics, pests and diseases, cropping systems all the way through to nutrition and consumer perspectives."

Graham Thiele, Director - CGIAR Research Program on Roots Tubers and Bananas, led by the International Potato Center (CIP), Lima, Peru



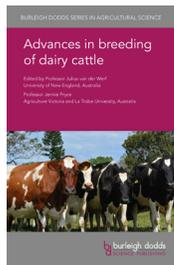
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www.bdspublishing.com/resources/librarians/

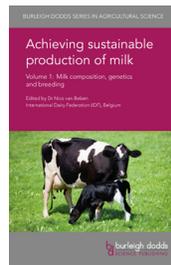
LIVESTOCK

DAIRY



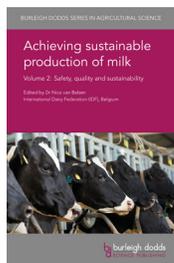
Advances in breeding of dairy cattle
 Editors Prof. Julius van der Werf, Univ. of New England, Australia and Prof. Jennie Pryce, Agriculture Victoria and La Trobe University, Australia
NEW
 ISBN - print 978-1-78676-296-2
 ISBN - ePub 978-1-78676-298-6
 ISBN - ePDF 978-1-78676-299-3
 Pages 658
 Pub. Date December 2019
 Price £190/\$245/€230/C\$325
 Series No AS72

Dairy cattle breeding faces challenges such as reduced genetic diversity and the improvement of production over functional traits. This collection reviews the latest research on genetics, genetic diversity and advanced methods of genetic evaluation and selection.



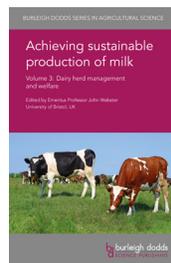
Achieving sustainable production of milk - Vol 1
Milk composition, genetics and breeding
 Editor Dr Nico van Belzen, formerly International Dairy Federation (IDF), Belgium
 ISBN - print 978-1-78676-044-9
 ISBN - ePub 978-1-78676-046-3
 ISBN - ePDF 978-1-78676-047-0
 Pages 360
 Pub. Date March 2017
 Price £150/\$195/€180/C\$255
 Series No AS08

This book provides a detailed review of current research on key components and quality traits of milk as well as ways of measuring milk quality. It then discusses genetic factors affecting these traits and how they can be used to improve breeding of dairy cows.



Achieving sustainable production of milk - Vol 2
Safety, quality and sustainability
 Editor Dr Nico van Belzen, formerly International Dairy Federation (IDF), Belgium
 ISBN - print 978-1-78676-048-7
 ISBN - ePub 978-1-78676-050-0
 ISBN - ePDF 978-1-78676-051-7
 Pages 432
 Pub. Date May 2017
 Price £200/\$260/€240/C\$340
 Series No AS09

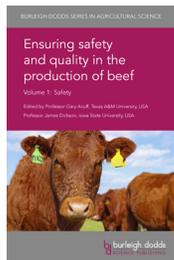
Safety remains a key issue for the dairy industry. Vol 2 reviews current research on understanding and managing pathogens in dairy farms. It also discusses more recent concerns about the environmental impact of dairy farming and ways it can be made more sustainable, including in developing countries.



Achieving sustainable production of milk - Vol 3
Dairy herd management and welfare
 Editor Emeritus Prof. John Webster, University of Bristol, UK
 ISBN - print 978-1-78676-052-4
 ISBN - ePub 978-1-78676-054-8
 ISBN - ePDF 978-1-78676-055-5
 Pages 606
 Pub. Date August 2017
 Price £240/\$310/€290/C\$410
 Series No AS10

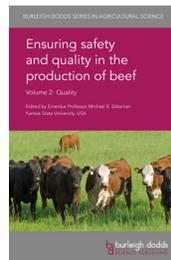
This collection looks at the key issues affecting dairy herd welfare as well as ways of optimising dairy cattle nutrition. It also reviews ways of detecting, preventing and managing diseases affecting dairy cattle.

BEEF



Ensuring safety and quality in the production of beef - Vol 1: Safety
 Editors Prof. Gary Acuff, Texas A&M University, USA, and Prof. James Dickson, Iowa State University, USA
 ISBN - print 978-1-78676-056-2
 ISBN - ePub 978-1-78676-058-6
 ISBN - ePDF 978-1-78676-059-3
 Pages 252
 Pub. Date June 2017
 Price £130/\$170/€155/C\$220
 Series No AS11

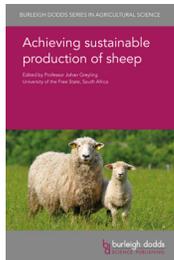
Volume 1 looks at key research trends in ensuring safe beef production, both on the farm and during slaughter. These include current research on pathogens in beef, risk assessment and detection as well as food safety management.



Ensuring safety and quality in the production of beef - Vol 2: Quality
 Editor Emeritus Prof. Michael Dikeman, Kansas State University, USA
 ISBN - print 978-1-78676-060-9
 ISBN - ePub 978-1-78676-062-3
 ISBN - ePDF 978-1-78676-063-0
 Pages 442
 Pub. Date April 2017
 Price £190/\$245/€230/C\$325
 Series No AS12

Volume 2 reviews developments related to quality, starting with the way breeding and growth affect meat quality. The book then discusses cattle nutrition and management before concluding with an assessment of factors determining individual quality traits such as colour and flavour.

SHEEP



Achieving sustainable production of sheep
 Editor Prof. Johan Greyling, University of the Free State, South Africa
 ISBN - print 978-1-78676-084-5
 ISBN - ePub 978-1-78676-086-9
 ISBN - ePDF 978-1-78676-087-6
 Pages 474
 Pub. Date September 2017
 Price £230/\$300/€275/C\$390
 Series No AS22

Sheep have long been a feature of farming. This collection reviews the latest research on issues such as meat quality, genetics and breeding. It also discusses animal nutrition, health and welfare as well as ways of improving the sustainability of sheep production.

See what others are saying about Beef Volumes 1 & 2:
"Drs Acuff and Dickson have produced a truly international and model reference here; it reflects robust research-based knowledge and best practices across the entire supply chain of the beef industry. Authors reflect international expertise, and the topics are well-organized and germane to beef's role in public health."

"Ensuring Safety and Quality in the Production of Beef, is a breath of fresh air. It covers a mountain of factors that can contribute to beef demand. It assembles a truly remarkable set of authors; scientists that have spent a career on their specific topics. This text is a "must read"!"

Meat Science

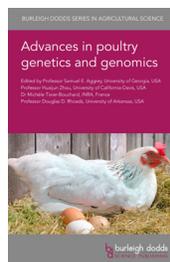
POULTRY


Understanding the behaviour and improving the welfare of chickens **NEW**

Editor Prof. Christine Nicol, Royal Veterinary College - University of London, UK

ISBN - print 978-1-78676-422-5
 ISBN - ePub 978-1-78676-424-9
 ISBN - ePDF 978-1-78676-425-6
 Pages 360
 Pub. Date July 2020
 Price £170/\$220/€205/C\$290
 Series No AS91

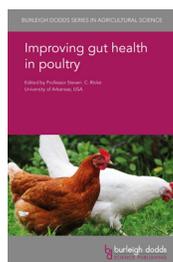
Part 1 of this volume reviews advances in research on key aspects of poultry behaviour and welfare monitoring. Part 2 discusses particular welfare issues affecting broilers and layers such as housing and environmental enrichment as well as problems such as injurious pecking and bone health.


Advances in poultry genetics and genomics **NEW**

Editor Prof. Samuel E. Aggrey et al., University of Georgia, USA

ISBN - print 978-1-78676-324-2
 ISBN - ePub 978-1-78676-326-6
 ISBN - ePDF 978-1-78676-327-3
 Pages 540
 Pub. Date May 2020
 Price £190/\$245/€230/C\$325
 Series No AS79

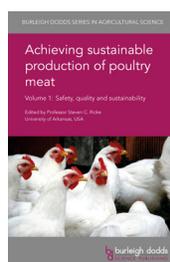
This collection begins by reviewing current challenges facing poultry breeding. It goes on to review recent research on the genetics of key traits, from production traits such as egg production to functional traits such as bone strength, and their implications for breeding.


Improving gut health in poultry **NEW**

Editor Prof. Steven C. Ricke, University of Arkansas, USA

ISBN - print 978-1-78676-304-4
 ISBN - ePub 978-1-78676-306-8
 ISBN - ePDF 978-1-78676-307-5
 Pages 546
 Pub. Date November 2019
 Price £180/\$235/€215/C\$305
 Series No AS73

This collection summarises current research on the composition and function of the gastrointestinal tract in poultry, the factors that effect its function, and nutritional strategies to optimise poultry nutrition, health and environmental impact.


Achieving sustainable production of poultry meat - Vol 1: Safety, quality and sustainability

Editor Prof. Steven C. Ricke, University of Arkansas, USA

ISBN - print 978-1-78676-064-7
 ISBN - ePub 978-1-78676-066-1
 ISBN - ePDF 978-1-78676-067-8
 Pages 502
 Pub. Date January 2017
 Price £220/\$285/€265/C\$375
 Series No AS13

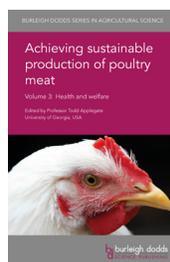
Poultry production faces many challenges. This collection starts by reviewing safety, including detection, prevention and control of zoonoses in poultry flocks. It also discusses key aspects of quality such as meat flavour as well as wider issues such as the environmental impact of poultry production.


Achieving sustainable production of poultry meat - Vol 2: Breeding and nutrition

Editor Prof. Todd Applegate, University of Georgia, USA

ISBN - print 978-1-78676-068-5
 ISBN - ePub 978-1-78676-070-8
 ISBN - ePDF 978-1-78676-071-5
 Pages 342
 Pub. Date July 2017
 Price £150/\$195/€180/C\$255
 Series No AS14

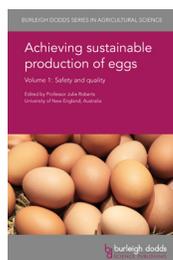
There have been significant advances in poultry breeding and nutrition. This books discusses key developments such as marker-assisted breeding and improvements in poultry feed such as the use of enzymes to optimise nutritional efficiency.


Achieving sustainable production of poultry meat - Vol 3: Health and welfare

Editor Prof. Todd Applegate, University of Georgia, USA

ISBN - print 978-1-78676-072-2
 ISBN - ePub 978-1-78676-074-6
 ISBN - ePDF 978-1-78676-075-3
 Pages 350
 Pub. Date August 2017
 Price £160/\$210/€190/C\$270
 Series No AS15

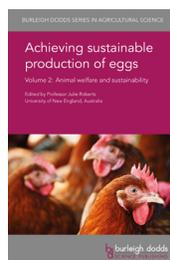
Health and welfare are major issues in poultry production. This collection reviews our understanding of bacterial, viral and other diseases affecting poultry and their effective management. It also discusses ways of managing poultry flocks to optimise their welfare from hatching to slaughter.


Achieving sustainable production of eggs - Vol 1: Safety and quality

Editor Prof. Julie Roberts, University of New England, Australia

ISBN - print 978-1-78676-076-0
 ISBN - ePub 978-1-78676-078-4
 ISBN - ePDF 978-1-78676-079-1
 Pages 430
 Pub. Date March 2017
 Price £180/\$235/€215/C\$305
 Series No AS16

This collection begins by looking at egg composition and chemistry. This provides a foundation for discussing pathogenic contamination of eggs and methods for its prevention, detection and control. The book concludes by assessing factors affecting egg appearance, shelf-life, nutritional value and other quality traits.

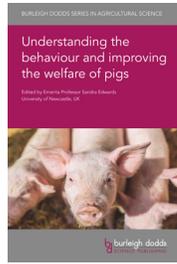

Achieving sustainable production of eggs - Vol 2: Animal welfare and sustainability

Editor Prof. Julie Roberts, University of New England, Australia

ISBN - print 978-1-78676-080-7
 ISBN - ePub 978-1-78676-082-1
 ISBN - ePDF 978-1-78676-083-8
 Pages 234
 Pub. Date February 2017
 Price £130/\$170/€155/C\$220
 Series No AS17

Welfare and sustainability are now major issues in egg production. This book reviews nutrition and other aspects of husbandry affecting laying hens as well as the environmental impact of egg production and how it can be made more sustainable.

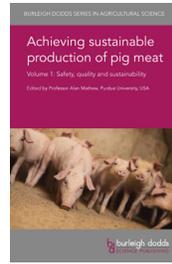
PIGS



Understanding the behaviour and improving the welfare of pigs
 Editor Emerita Prof. Sandra Edwards, University of Newcastle, UK
 ISBN - print 978-1-78676-443-0
 ISBN - ePub 978-1-78676-445-4
 ISBN - ePDF 978-1-78676-446-1
 Pages 320
 Pub. Date September 2020
 Price £150/\$195/€180/C\$255
 Series No AS96

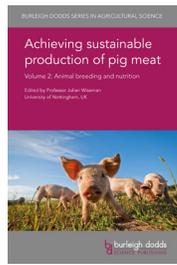
NEW

The welfare of farmed animals such as pigs is an increasing concern for consumers and regulatory agencies. This collection summarises and reviews the wealth of recent research on understanding pig behaviour and improving their welfare.



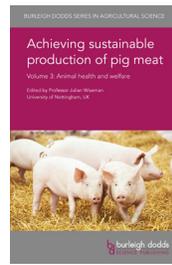
Achieving sustainable production of pig meat - Vol 1: Safety, quality and sustainability
 Editor Prof. Alan Mathew, Purdue University, USA
 ISBN - print 978-1-78676-088-3
 ISBN - ePub 978-1-78676-090-6
 ISBN - ePDF 978-1-78676-091-3
 Pages 290
 Pub. Date June 2018
 Price £130/\$170/€155/C\$220
 Series No AS23

Pig meat is the most widely-consumed meat in the world. This volume addresses some of the key challenges facing pig farming such as the continuing threat from zoonoses, ways of maintaining and improving meat quality as well as making pig production more sustainable.



Achieving sustainable production of pig meat - Vol 2: Animal breeding and nutrition
 Editor Prof. Julian Wiseman, University of Nottingham, UK
 ISBN - print 978-1-78676-092-0
 ISBN - ePub 978-1-78676-094-4
 ISBN - ePDF 978-1-78676-095-1
 Pages 340
 Pub. Date October 2017
 Price £160/\$210/€190/C\$270
 Series No AS24

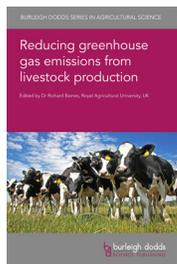
Pig production faces many hurdles in meeting increasing global demand sustainability. This volume discusses advances in breeding to improve both productivity and quality. It also reviews key developments in improving animal nutrition, health and welfare.



Achieving sustainable production of pig meat - Vol 3: Animal health and welfare
 Editor Prof. Julian Wiseman, University of Nottingham, UK
 ISBN - print 978-1-78676-096-8
 ISBN - ePub 978-1-78676-098-2
 ISBN - ePDF 978-1-78676-099-9
 Pages 326
 Pub. Date March 2018
 Price £140/\$180/€170/C\$240
 Series No AS25

Maintaining animal health and high standards of animal welfare are seen as key to sustainable livestock production. This volume reviews the effective management of diseases affecting pigs as well as ways of defining and promoting animal welfare in pig production.

LIVESTOCK MANAGEMENT



Reducing greenhouse gas emissions from livestock production
 Editor Dr Richard Baines, Royal Agricultural University, UK
 ISBN - print 978-1-78676-439-3
 ISBN - ePub 978-1-78676-441-6
 ISBN - ePDF 978-1-78676-442-3
 Pages 300
 Pub. Date September 2020
 Price £150/\$195/€180/C\$255
 Series No AS95

NEW

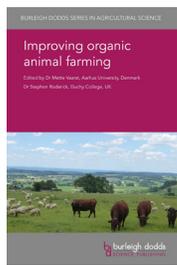
Cattle are a major source of non-carbon dioxide greenhouse gas emissions. Part 1 reviews the genetics, measurement and modelling of methane emissions from cattle. Parts 2 and 3 look at mitigation strategies, from manure and grassland management to improved nutrition.



Improving rumen function
 Editors Dr Chris McSweeney, CSIRO, Australia and Prof. Rod Mackie, University of Illinois, USA
 ISBN - print 978-1-78676-332-7
 ISBN - ePub 978-1-78676-334-1
 ISBN - ePDF 978-1-78676-335-8
 Pages 520
 Pub. Date April 2020
 Price £190/\$245/€230/C\$325
 Series No AS83

NEW

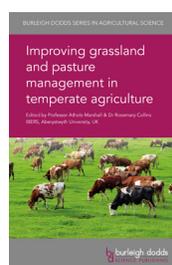
Part 1 summarises advances in analysing the rumen microbiome. Part 2 reviews recent research on different types of rumen microbiota. Part 3 discusses the way the rumen processes nutrients whilst Part 4 explores nutritional strategies to optimise rumen function.



Improving organic animal farming
 Editor Dr Mette Vaarst, Aarhus University, Denmark and Dr Stephen Roderick, Duchy College, UK
 ISBN - print 978-1-78676-180-4
 ISBN - ePub 978-1-78676-182-8
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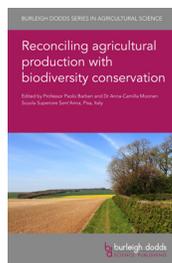
This collection addresses recent research on challenges facing organic animal farming such as more targeted breeding, improved grazing and feed rations, better methods of health and disease management as well as ways of enhancing animal welfare.



Improving grassland and pasture management in temperate agriculture
 Editors Prof. Athole Marshall & Dr Rosemary Collins, IBERS, Aberystwyth University, UK
 ISBN - print 978-1-78676-200-9
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 Series No AS51

In many countries there has been a shift to intensive grassland livestock systems with higher environmental impact. There is also greater understanding of the wider role of grasslands in delivering ecosystem services. This collection reviews current research into the more sustainable use of agricultural grassland.

FORESTRY & GRASSLANDS



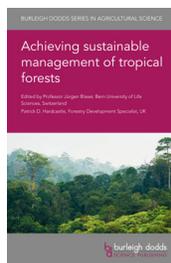
Reconciling agricultural production with biodiversity conservation

NEW

Editors Prof. Paolo Bàrberi and Dr Anna-Camilla Moonen, Scuola Superiore Sant'Anna, Italy

ISBN - print 978-1-78676-348-8
 ISBN - ePub 978-1-78676-350-1
 ISBN - ePDF 978-1-78676-351-8
 Pages 280
 Pub. Date June 2020
 Price £150/\$195/€180/C\$255
 Series No AS87

The first part of this volume assesses general issues such as landscape approaches, mapping and modelling. Part 2 reviews management practices promoting biodiversity such as field margins, hedgerows, improved pasture management and agroforestry.



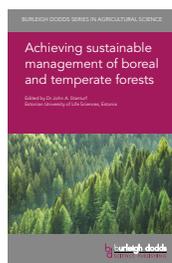
Achieving sustainable management of tropical forests

NEW

Editors Prof. Jürgen Blaser, Bern University of Life Sciences, Switzerland and Mr Patrick D. Hardcastle, Forestry Development Specialist, UK

ISBN - print 978-1-78676-248-1
 ISBN - ePub 978-1-78676-250-4
 ISBN - ePDF 978-1-78676-251-1
 Pages 500
 Pub. Date May 2020
 Price £190/\$245/€230/C\$325
 Series No AS80

Parts 1 and 2 discuss the challenges faced by tropical forests and the ecosystem services they provide. Parts 3-4 summarise developments in sustainable forest management (SFM) practice. The book concludes by looking at SFM of different tropical forest types.



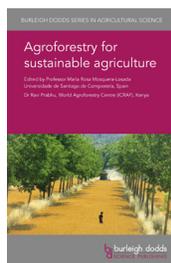
Achieving sustainable management of boreal and temperate forests

NEW

Editor Dr John Stanturf, Estonian University of Life Sciences, Estonia

ISBN - print 978-1-78676-292-4
 ISBN - ePub 978-1-78676-294-8
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 Pages 872
 Pub. Date November 2019
 Price £190/\$245/€230/C\$325
 Series No AS71

Forests deliver both economic benefits and a range of key ecosystem services. This collection reviews current research on optimising their use, from understanding tree physiology to improvements in planting, stand management, sustainable logging and product diversification.



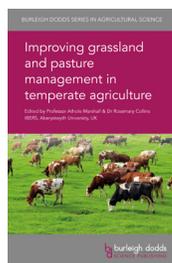
Agroforestry for sustainable agriculture

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Editors Prof. María Rosa Mosquera-Losada, University of Santiago de Compostela, Spain and Dr Ravi Prabhu, World Agroforestry Centre, Kenya

ISBN - print 978-1-78676-220-7
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 Pages 542
 Pub. Date May 2019
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 Series No AS55

This volume reviews the latest research on the role and implementation of main types of agroforestry, the ecosystem services that agroforestry can deliver and techniques for optimising agroforestry practice.



Improving grassland and pasture management in temperate agriculture

Editors Prof. Athole Marshall & Dr Rosemary Collins, IBERS, Aberystwyth University, UK

ISBN - print 978-1-78676-200-9
 ISBN - ePub 978-1-78676-202-3
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