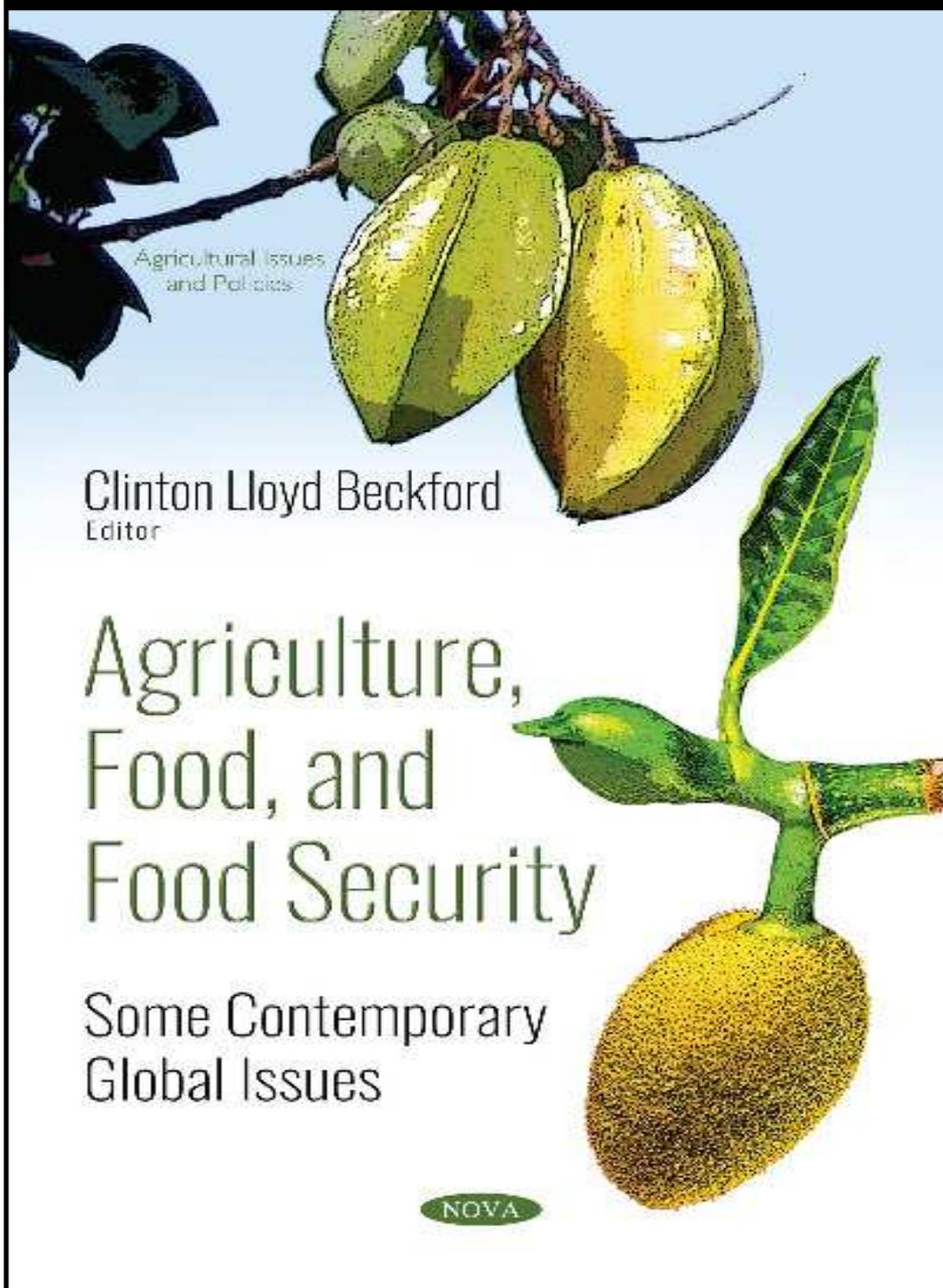




Gazelle Academic

Agriculture, Forestry & Food

New Titles - July 2018



Agricultural Issues
and Policies

Clinton Lloyd Beckford
Editor

Agriculture, Food, and Food Security

Some Contemporary
Global Issues

NOVA

**Advances in
Environmental
Research**
Volume 58

**Agriculture,
Food & Food
Security**
Some
Contemporary
Global Issues

**Agricultural
Research
Updates**

Biological Control
Methods,
Applications &
Challenges

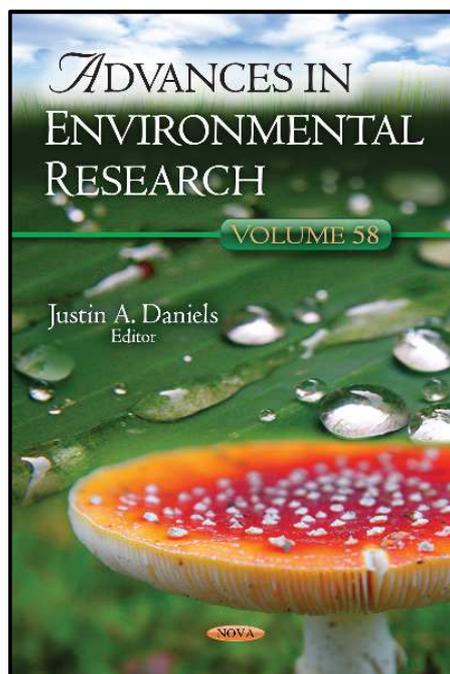
Cotton Fibres
Characteristics,
Uses & Performance

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New Title – Agriculture, Forestry & Food



**Advances in Environmental Research
Volume 58**

In Chapter One, Alexander M. Liudchik and Siarhey D. Umreika begin by deliberating on the problem of spectrophotometric determination of gas medium composition in its customary formulation and then define a method of accounting for the errors from different sources, thus allowing for estimation of uncertainties in the contents of individual components. In Chapter Two, Oleg V. Trifonov and Vladimir P. Cherniy give an overview of current research on the pipeline-soil interaction modeling, examine a variety of modeling approaches, and describe the environment for correct application of different soil models. In Chapter Three, Alexander Y. Galashev studies the spectral properties of clusters of water that have absorbed NO_x molecules. Next, Dr. Francis Orata recommends two consecutive points of sewage and wastewater treatment, including dispersed treatment at the pollutant production facility or at the source, during Chapter Four. In Chapter Five, G. Lovato, R. Albanez, J.N. Albuquerque, P. Cola, R.S. Celestino, S.E. Vogel, M. Fukuyama, F.E. Hirata, F.H. Saito, S.M. Ratusznei, and J.A.D. Rodrigues explore the application of an AnSBBR (anaerobic sequencing batch biofilm reactor) of 3.0 L treating 1.0 L per cycle with agitation operated at 30°C in batch and fed-batch mode in the co-digesting cheese whey with glycerin for methane production. In Chapter Six, Bingqi Zhu researches the chemical weathering process of detrital sediments in the hyper-arid area, basing his study on major-element components of deposits from the Taklamakan Desert in China. After, J. F. Pérez, J. Llanos, C. Sáez, C. López, M. A. Rodrigo, and P. Cañizares present a study using 100 different samples collected from a variety of manufacturing processes within a chemical synthesis pharmaceutical manufacturing plant in Chapter Seven. Lastly, Chapter Eight presents a study investigating the application of an anaerobic sequencing batch biofilm reactor of .0 L treating 1.0 L per cycle with recirculation of the liquid phase operated at 30°C in batch and fed-batch mode in the treatment of xylose based wastewater, with the core intent of producing methane.

December 2017 - 274 pages

HB (9781536126211) £217.50

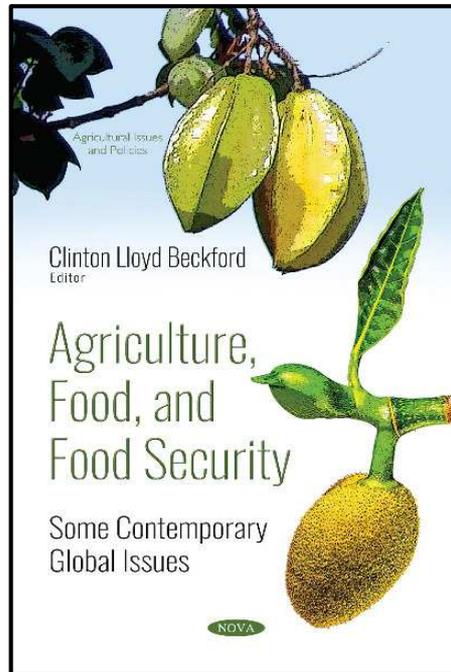
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New Title – Agriculture, Forestry & Food



**Agriculture, Food, and Food Security
Some Contemporary Global Issues**

Edited by Clinton Lloyd Beckford

Agriculture, Food and Food Security: Some Global Perspectives is an edited collection of scholarly work. The book looks at agriculture and food in a framework of enhancing food security. The seven chapters that comprise the volume are written by successful international scholars with sterling academic publication records. The authors live and work in countries across the world including Jamaica, Germany, Canada, and the United States. Together, they have conducted numerous research projects and published a high volume of scholarly articles on issues related to the central themes of this book: agriculture, food and food security.

The chapters in the book provide insights into several key themes centered on food, agriculture, and food and nutrition security. The volume explores some pressing issues including food desserts, micro-nutrient deficiencies, increasing food production by tapping into the potential of already known species, localizing food production, maximizing the food and nutrition potential of tropical fruits, and agricultural vulnerability in the context of the most pressing global threats: climate change and variability.

May 2018 - 207 pages

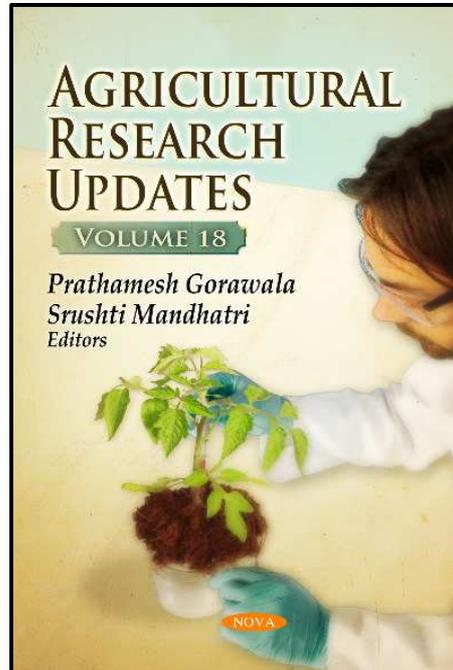
HB (9781536134834) £139.50

Publisher: Nova Science Publishers



Gazelle Academic

New Title – Agriculture, Forestry & Food



Agricultural Research Updates

Edited by Prathamesh Gorawala, Srushti Mandhatri

This book examines the most up-to-date research in the agricultural field. Chapter One reviews the use of agricultural waste as potential feedstock for activated carbon development. Chapter Two presents the potential uses of chlorogenic acid from vegetables and industrial waste. Chapter Three provides an overview consuming antioxidants from fruits and vegetables for sustainable human wellness. Chapter Four analyzes advances in fruit growing technology. Chapter Five focuses on plant growth promoting rhizobacteria (PGPR) mediated plant disease resistance.

May 2017 - 221 pages - Volume 18 - HB (9781536108972) £217.50

May 2017 - 236 pages - Volume 19 - HB (9781536110128) £217.50

September 2017 - 190 pages - Volume 20 - HB (9781536122169) £217.50

December 2017 - 195 pages - Volume 21 - HB (9781536126976) £217.50

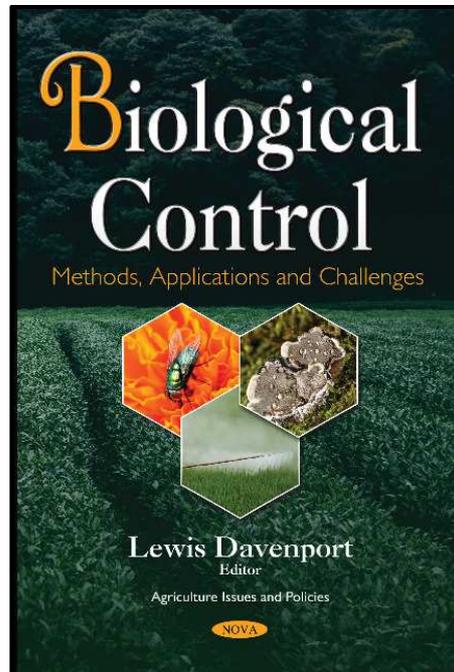
May 2018 - 243 pages - Volume 23 - HB (9781536137248) £217.50

Publisher: Nova Science Publishers



Gazelle Academic

New Title – Agriculture, Forestry & Food



**Biological Control
Methods, Applications & Challenges**

Edited by Lewis Davenport

Biological control is a plant protection strategy widely-used in horticultural cropping systems to regulate insect and mite pest populations on greenhouse-grown ornamentals and vegetables. The use of natural enemies in controlling the SWD has been researched in Chapter One. Chapter Two aims to recover the history and present the current status of the biological control of fruit flies of the genus *Anastrepha* and to show perspectives of the use of such method. Chapter Three discusses the advantages and issues affiliated with using natural enemies in conjunction with pesticides and provides insights on the practicality of using both plant protection strategies simultaneously. Chapter Four describes screening methods for candidate biocontrol agents, application methods and challenges associated with biological control of fungal pathogens by antagonistic microorganisms.

September 2017 - 128 pages

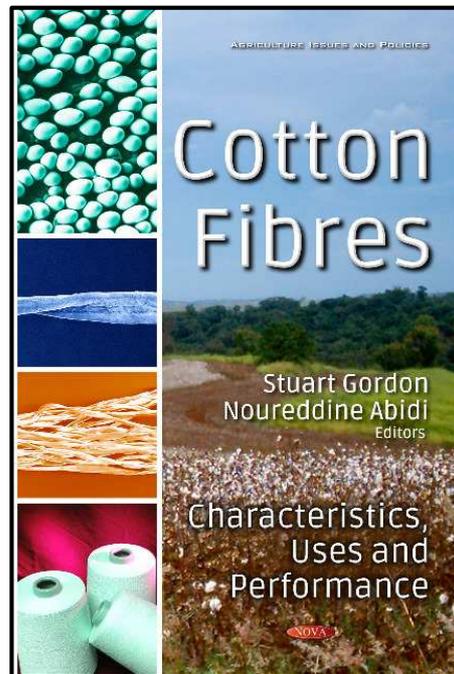
PB (9781536124163) £71.50

Publisher: Nova Science Publishers



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New Title – Agriculture, Forestry & Food



Cotton Fibres
Characteristics, Uses & Performance

Edited by Stuart Gordon, Nouredine Abidi

Cotton's importance as a crop and as a textile fibre is still significant. However, its importance has been and will continue to be seriously challenged by the growth in consumption of man-made fibre, particularly polyester.

This book is divided into three parts. The first part, covering seven chapters, describes the chemical and physical properties of cotton fibre. These chapters focus on the differences between cotton and polyester fibre properties and highlight areas researchers will need to pursue to keep cotton competitive. Two lesser discussed properties receive attention: Cotton fibre's wax layer and cotton cellulose's glass transition temperature. The hydrophobic wax layer that protects cotton during mechanical processing and aids the dispersal of its seed by water, has been central in the development of the spinning technology used by cotton and polyester fibre alike. The wax provides lubrication between the fibre surface and the processing surfaces during opening, carding and spinning. The chapter on cotton cellulose's glass transition temperature introduces the less appreciated concept that cotton's cellulose can be plasticized at particular temperatures and moisture contents, wherein cotton's mechanical properties, e.g. elongation to break, can be improved. The range of fibre property values and the variation found in cotton stand as markers for future researchers to improve by way of plant and crop management, breeding (including genetic modification), and chemical processing. Long standing objectives include longer, stronger and finer fibre, which all translate to better looking and performing yarn and fabric. However, properties that give cotton fabric improved resilience, drape and dyed-colour appearance also stand as objectives to improve cotton's competitiveness.

May 2017 -365 pages

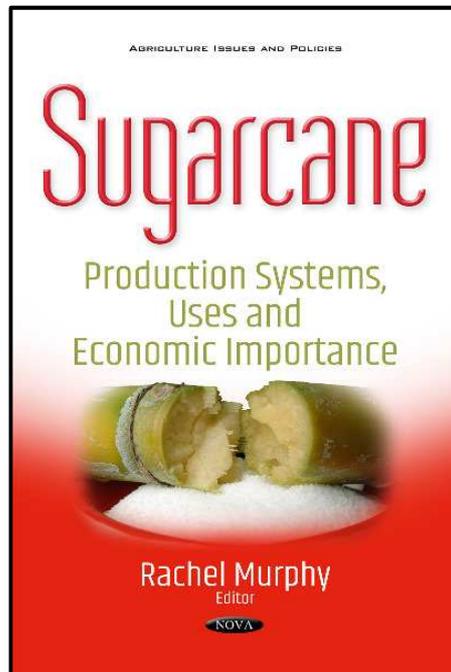
HB (9781536109139) £199.99

Publisher: Nova Science Publishers



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New Title – Agriculture, Forestry & Food



Sugarcane
Production Systems, Uses & Economic Importance

Edited by Rachel Murphy

Sugarcane is a globally important crop since it provides nearly 80% of the sugar consumed worldwide. The cultivation of sugarcane is one of the most important activities around the world due to their alimentary, environmental, social, economic implications and potential productive diversification with coproducts and byproducts. This book provides new research on production systems, uses and economic importance of sugarcane.

May 2017 - 225 pages

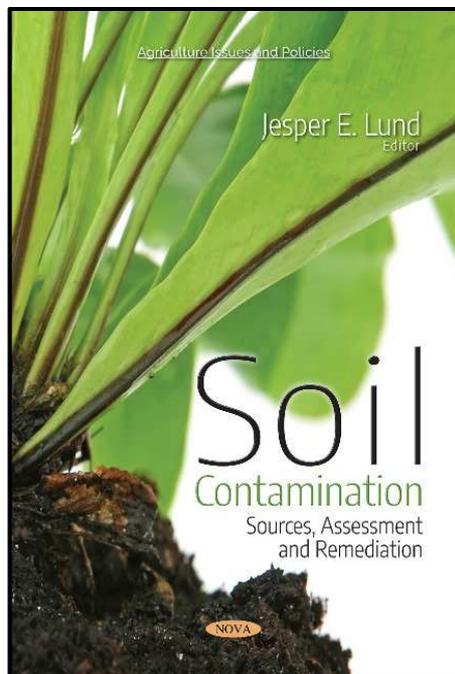
HB (9781536108989) £139.50

Publisher: Nova Science Publishers



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New Title – Agriculture, Forestry & Food



**Soil Contamination
Sources, Assessment and Remediation**

Edited by Jesper E. Lund

In this compilation, the authors present the results of the systematic study of the spatial distribution of trace metals in surface soil over the Bitola Region, Republic of Macedonia, known for its coal mine and thermoelectrical power plant activities. 149 soil samples were collected including top-soil and bottom-soil samples. Following this, the area in the vicinity of lead–zinc mine “Toranica” near the Kriva Palanka town in Eastern Macedonia was examined for the lithogenic and anthropogenic distribution of 17 elements, and alluvial soil samples and authomorphic soil samples were collected from the Kriva Reka River Basin. The authors aim to contribute to our understanding of the behaviour of nanoparticles in the soil, their uptake and distribution within plants, impact of soil microbial communities, and their interactions with other pollutants. Later, the authors summarize a case study on the presence of natural U-isotopes in two soil profiles developed over sandstones from the Paraná sedimentary basin in São Paulo State, Brazil, in order to evaluate the timescale of the weathering processes taking place there. The book suggests synergistic biological mechanisms as a less expensive, environment-friendly method for remediation of pesticide polluted soils. The concluding chapter discusses biochar, a form of char and charcoal made from the partial combustion of organic materials. Its properties include high water-holding capacity, large surface area, cation exchange capacity, and impact, especially on microbial communities.

February 2018 - 150 pages

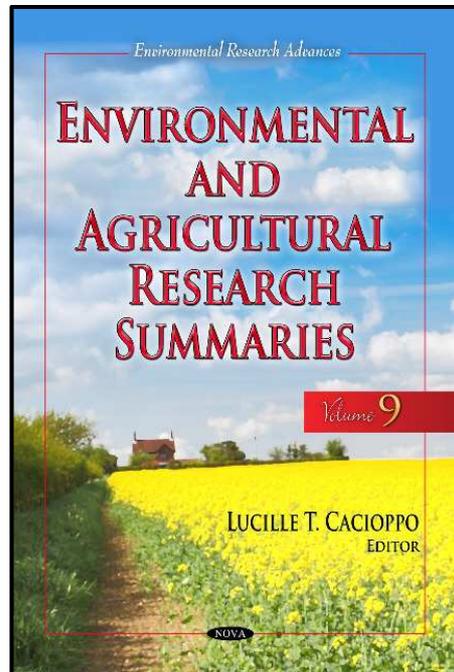
PB (9781536132663) £82.99

Publisher: Nova Science Publishers



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New Title – Agriculture, Forestry & Food



Environmental & Agricultural Research Summaries (with Biographical Sketches)

Edited by Lucille T. Cacioppo

This book compiles research summaries from a number of different focuses in the important field of environment and agriculture.

May 2017 - 433 pages - Volume 9 - HB (9781536114164) £199.99

June 2017 - 440 pages - Volume 10 - HB (9781536114171) £199.99

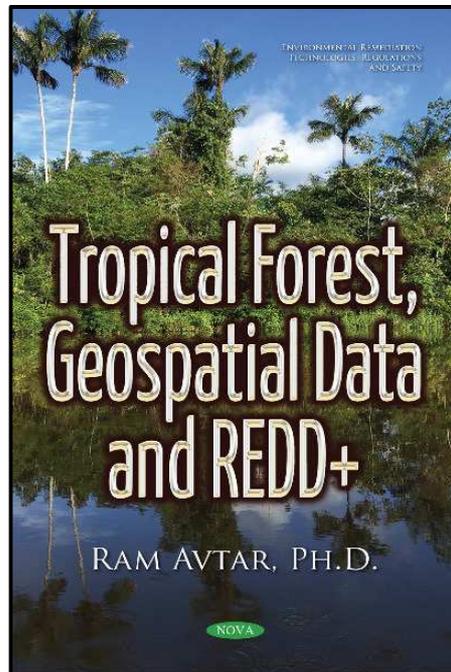
July 2017 - 470 pages - Volume 11 - HB (9781536114188) £234.99

Publisher: Nova Science Publishers



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New Title – Agriculture, Forestry & Food



Tropical Forest, Geospatial Data & REDD+

With an increasing role of tropical forests supporting a range of ecosystem services, biodiversity conservation, water regulation, soil conservation, timber, non-timber forest products, carbon sequestration, and climate change mitigation, the importance of forest resources management has become very crucial. The tropical forests of Indochina countries are rich in biodiversity and carbon density, and thus are significant from social, ecological, political and economic aspects. These forests provide essential livelihoods to the local and indigenous people. Rapid economic growth, agriculture expansion, illegal logging, population growth, and urbanization have been reported as major contributors to almost all cases of deforestation. Due to rapid development, forest resources are at a great risk. The FRA 2010 report shows that deforestation caused a loss of about 13 million hectares of tropical forests per year from the year 2000 to 2010. Therefore, there is an urgent need for better management of these resources. This book partially contributes towards climate change mitigation by implementing the Reducing Emissions from Deforestation and forest Degradation (REDD+) mechanism.

June 2017 - 147 pages

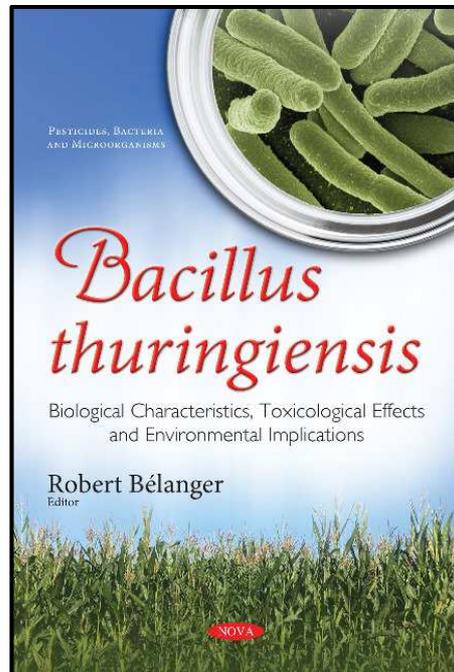
PB (9781634852777) £82.99

Publisher: Nova Science Publishers



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Bacillus thuringiensis
Biological Characteristics, Toxicological Effects & Environmental Implications

Edited by Robert Bélanger

In Chapter One, André L. de A. Melo, PhD discusses the spore-forming bacterium *Bacillus thuringiensis* and its uses as a bio-insecticide, also touching on ways to combat insect resistance. In Chapter Two, Karim Ennouri proposes the bacterium *Bacillus thuringiensis* as an important biopesticide because of the entomopathogenic effect of delta-endotoxins as well as its efficiency against insects resistant to chemical insecticides. In conclusion, Rafael C. Lajmanovich, Candela S. Martinuzzi, Carlina Colussi, Paola M. Peltzer, Agustín Bassó, Andrés M. Attademo, and Lucila M. Curi present a study exploring the impact of a GM Bt-soybean-based diet, as opposed to a lettuce diet, on tadpoles.

December 2017 - 95 pages

PB (9781536127249) £71.50

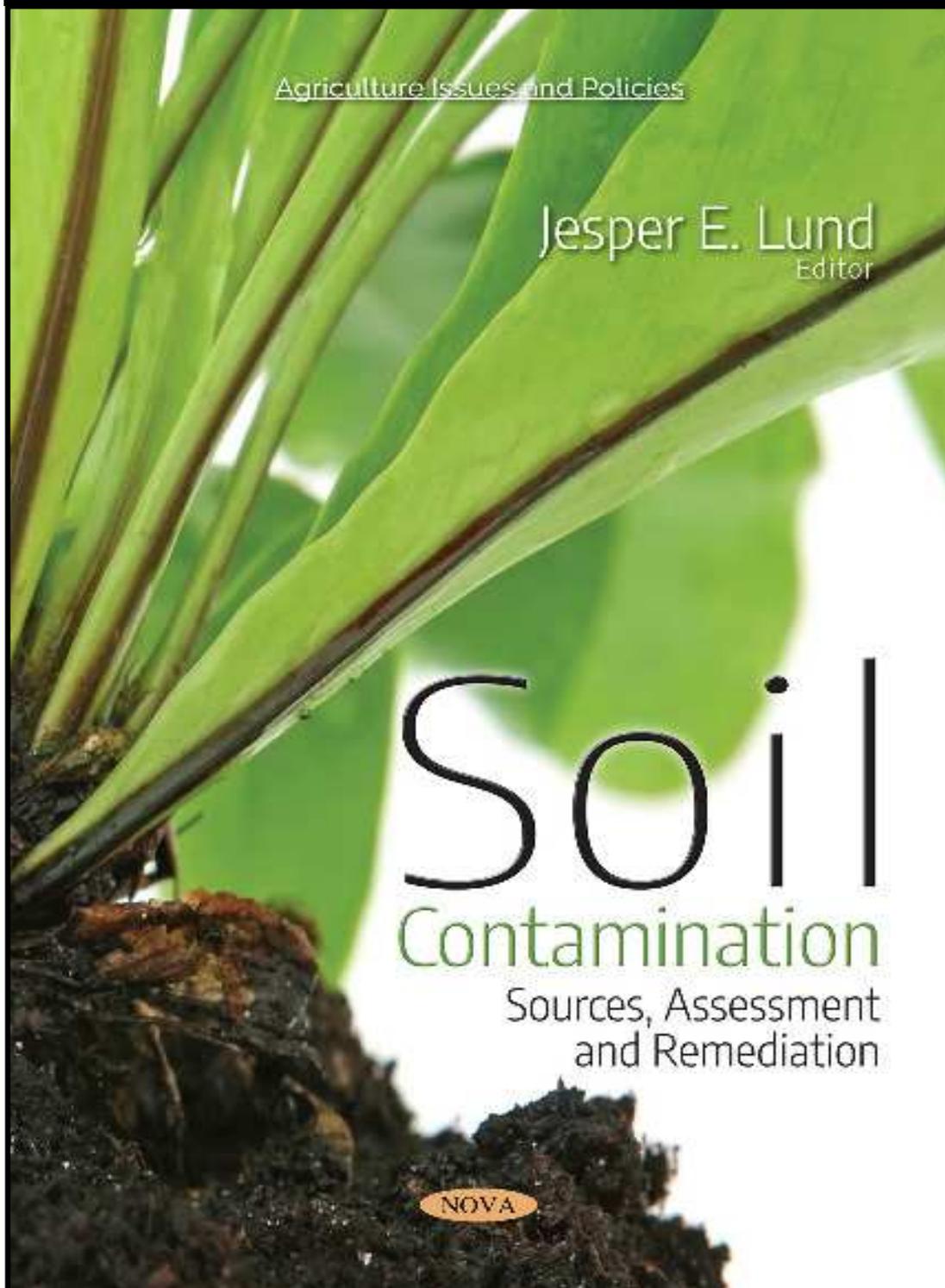
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