

A photograph of a plant seedling in a glass bottle. The seedling has a dark, pointed seed at the top, with a small stem and roots visible inside the bottle. The bottle is filled with water. The background is a soft-focus green landscape with trees and foliage.

Routledge

Science and Technology Catalogue

July - December 2026

New and Forthcoming Titles

Apple Academic Press, Environment & Sustainability, Food & Nutrition,
Forensics & Homeland Security, Jenny Stanford Publishing
and Life Science



Welcome

Welcome to the July to December 2026 Science and Technology Catalogue.

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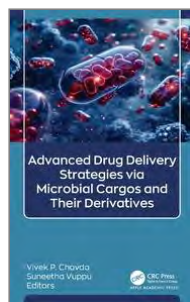
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Advanced Drug Delivery Strategies via Microbial Cargos and Their Derivatives



Edited by **Vivek P. Chavda , Suneetha Vuppu**

Provides overview of the many aspects of microbial drug delivery systems as well as insights on strategies for the development of innovative microbial cargos using the beneficial properties of microorganisms and their derivatives. It presents a variety of carrier systems obtained using microorganisms or their derivatives. It explores how advanced carrier models like synthetic microbes are being developed as drug delivery systems. Various studies as well as regulatory perspectives are also covered. It discusses topics like bacterial cellulose-based drug delivery systems, virus-based drug delivery systems, safety and regulatory aspects, and more.

Apple Academic Press
June 2026 : 290pp
Hb: 978-1-779-64030-7 : £180
eBook: 978-1-779-64031-4

* For full contents and more information, visit: www.routledge.com/9781779640307

Advancements in Fused Deposition Modeling (FDM) Technology for Pharmaceutical and Medical Applications



Edited by **Kuldeep Vinchurkar , Dinesh Kumar Mishra , Pankaj Dixit , Sheetal Mane**

Explores the intricate intersections of FDM technology with pharmaceutical and medical realms. It looks at how FDM technology, a 3D printing technique that uses a heated filament to create complex objects layer by layer, is reshaping healthcare delivery. It offers an introduction and the fundamental principles of pharmaceutical FDM and then provides in-depth information on materials selection, technological approaches on pharmaceutical 3D printing, how FDM can be used in drug development, the role of FDM in the production and design of medical devices, the regulatory landscape for 3D-printed pharmaceuticals, and more. It also presents a selection of case studies

Apple Academic Press
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* For full contents and more information, visit: www.routledge.com/9781779640321

Advances in Freshwater Aquaculture

Technology for Sustainable Development



Edited by **Tarang Kumar Shah , Madhu Sharma , Mohd. Ashraf Rather , Avdhesh Kumar**

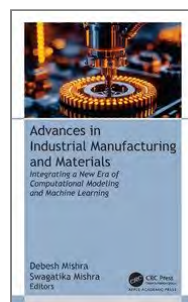
Explores the integration of both established practices and cutting-edge technologies to enhance the efficiency and sustainability of freshwater aquaculture systems. Topics include the use of aquaponics in urban areas; biosecurity approaches and environmental DNA surveillance to prevent, control, and eradicate fish diseases; and fish nutrition issues, including nutrigenomics, functional feed additives, phytotherapy, and probiotics for fish health. Addresses the effects of warming and pollution on aquatic environments and solutions, such as the use of integrated water resources management, minimizing environmental waste, employing remote sensing and geographic information systems, more.

Apple Academic Press
August 2026 : 292pp
Hb: 978-1-779-64084-0 : £140

* For full contents and more information, visit: www.routledge.com/9781779640840

Advances in Industrial Manufacturing and Materials

Integrating a New Era of Computational Modeling and Machine Learning



Edited by **Debesh Mishra , Swagatika Mishra**

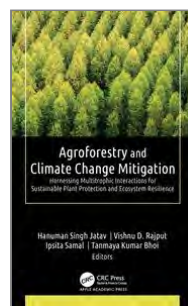
Presents studies on advances, developments, and trends in industrial manufacturing and materials, exploring advanced materials, composites, nanomaterials and different advanced machining processes. Chapters combine modern materials science with computer techniques such as artificial intelligence, machine learning, and other smart technologies. It showcases modeling and simulation of materials behavior. It discusses 2D and 3D computational modeling for new advanced materials, evaluating mechanical and optical properties, fiber-matrix interface in fiber-reinforced polymer (FRP) composites, mechanical and corrosion behavior of certain materials, and more.

Apple Academic Press
June 2026 : 230pp
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Agroforestry and Climate Change Mitigation

Harnessing Multitrophic Interactions for Sustainable Plant Protection and Ecosystem Resilience



Edited by **Hanuman Singh Jatav , Vishnu D. Rajput , Ipsita Samal , Tanmaya Kumar Bhoi**

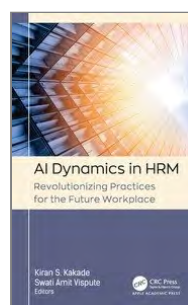
Explores the multitrophic interactions in agroforestry systems and their implications for sustainable plant protection. Covers the role of biodiversity in pest control, the impact of agroforestry practices on multitrophic interactions, the use of natural enemies for pest management, the potential of agroforestry for enhancing ecosystem services, and more. It looks at agroforestry in connection with climate change mitigation, environmental stress mitigation, beneficial insects, the role of detritivores in nutrient cycling and soil health, multitrophic pollination networks, plant-microbe synergy, root-mediated interactions, and much more.

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AI Dynamics in HRM

Revolutionizing Practices for the Future Workplace



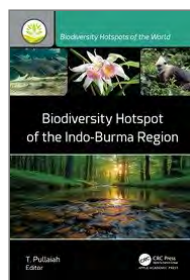
Edited by **Kiran S. Kakade , Swati Amit Vispute**

Offers a comprehensive exploration of how AI is reshaping human resource management, delving into the transformative impact of AI on various HR functions, from talent acquisition and employee engagement to performance management and organizational culture. It discusses the challenges and opportunities presented by AI, including ethical considerations, the need for transparency and accountability, and strategies for mitigating biases. By incorporating case studies, empirical research, and best practices from leading organizations, the book serves as a valuable resource for HR professionals, researchers, and students aiming to understand and leverage AI in the workplace.

Apple Academic Press
June 2026 : 348pp
Hb: 978-1-779-64136-6 : £140
eBook: 978-1-779-64137-3

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Biodiversity Hotspot of the Indo-Burma Region



Edited by **T. Pullaiah**

Series: *Biodiversity Hotspots of the World*

Studies the Indo-Burma Biodiversity Hotspot, spanning over two million total square kilometers, covers parts of Cambodia, Laos, Myanmar, Thailand, Vietnam, southern China, northeast India, and Bangladesh. It is one of the world 36 biodiversity hotspots and is one of the most biologically important regions on Earth. It is home to a remarkable diversity of plants and animals. This volume studies the paleoclimatic oscillations of the region as well as the impact of climate change on the region. Also addressed are the various types of forests, plants and vegetation, lichen and cyanobacteria, etc., found in the hotspot.

Apple Academic Press
June 2026 : 422pp
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Cellular and Molecular Mechanisms in Alzheimer's Disease Therapeutics

Volume 1: Cellular Mechanisms



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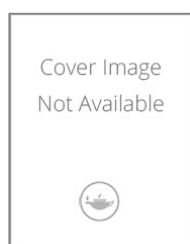
Edited by **Prashant Tiwari , Sunil Kumar Kadiri , Kunjbihari Sulakhiya**

Presents a detailed and up-to-date exploration of the cellular processes involved in AD, with an emphasis on their implications for therapeutic interventions. The book offers a comprehensive understanding of how various cellular mechanisms, such as synaptic dysfunction, neuroinflammation, mitochondrial impairment, and protein aggregation, contribute to the pathology of Alzheimer's disease. Topics include blood-brain barrier dysfunction in AD, personalized medicine approaches based on genetic profiling, microRNAs in the management of Alzheimer's disease, and more.

Apple Academic Press
August 2026 : 340pp
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Biodiversity Hotspot of the Irano-Anatolian Region



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Edited by **T. Pullaiah**

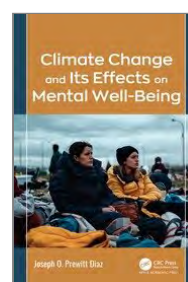
Series: *Biodiversity Hotspots of the World*

Covers the geography, geology, and climate of the region and also explores the diversity of cyanobacteria species, macrofungi, phytoplankton and zooplankton, bryophytes and pteridophytes, fish, soils, and more. It also considers the adverse effects of climate change on the biodiversity of the Irano-Anatolian Hotspot.

Apple Academic Press
September 2026 : 308pp
Hb: 978-1-779-64575-3 : **£170**

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Climate Change and Its Effects on Mental Well-Being



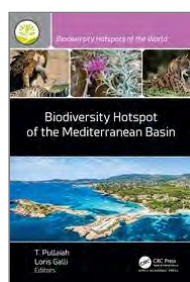
Joseph O. Prewitt Diaz

Brings together insights from psychology, environmental science, sociology, public health, and climate policy to provide a holistic view of the climate-mental health nexus. By analyzing case studies from many countries and climate disasters and reviewing literature, the book identifies best practices and solutions to address mental health challenges in the context of climate change. Highlights the links between climate change and mental health while also promoting the development of effective psychosocial support systems that are essential for fostering recovery in the aftermath of climate-related disasters and building resilience in communities as they confront an uncertain future.

Apple Academic Press
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Biodiversity Hotspot of the Mediterranean Basin



Edited by **T. Pullaiah , Loris Galli**

Series: *Biodiversity Hotspots of the World*

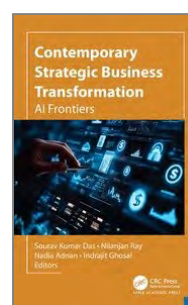
Focuses on the biodiversity of the Mediterranean Basin. Stretching from the archipelago of Cabo Verde in the west to Jordan and Turkey in the east, the region is well known for its exceptional richness in biodiversity and its high rate of endemism. The anthropogenic activities of the region, include deforestation, fragmentation of habitats, pollution, high population density, climate change, and poaching of wildlife, pose serious threats to the biodiversity of the region. The Mediterranean Basin hosts over 1,300 threatened species.

Apple Academic Press
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Contemporary Strategic Business Transformation

AI Frontiers



Edited by **Sourav Kumar Das , Nilanjan Ray , Nadia Adnan , Indrajit Ghosal**

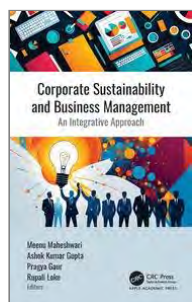
Investigates the confluence of modern strategic business transformation and AI. It scrutinizes the principles and methodologies that organizations need to navigate the business milieu. Through the analysis of empirical case studies and the provision of pragmatic insights, it highlights aspects of AI in business strategy, such as the role of AI in combating climate change, the impact of ML and AI on strategic management, the new tech-focused age of humans—the Technopocene, digital adaptation in the educational sector, deepfakes in media, and more, all of which are very related with the present business world.

Apple Academic Press
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Corporate Sustainability and Business Management

An Integrative Approach



Edited by Meenu Maheshwari , Ashok Kumar Gupta , Pragya Gaur , Rupali Loke

Provides analysis of CSR and its dynamic function within modern corporate strategy. It discusses ethical deliberations, societal obligations, and environmental conservation. It focuses on corporate governance and explores its significant influence on the long-term viability of organizations. It also emphasizes the need for sustainability-driven marketing management. It examines the transition toward sustainable marketing practices, which includes ethical branding, consumer interaction, and responsible advertising. The integration of sustainability into supply chain management is also considered. Sustainable finance and value creation are addressed as well.

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Cystic Fibrosis



Edited by Bhupendra Prajapati , Rishabha Malviya , Sonali Sundram , Akshay Parihar

Explores recent research, therapeutic developments, and clinical techniques used in treating cystic fibrosis. It discusses the disease pathogenesis, the critical role of microbes in its progression, and cutting-edge techniques for combating it. It provides an overview of cystic fibrosis and addresses the complex pathophysiology components of the condition. It discusses the role of microbial infections in aggravating cystic fibrosis and the use of aerosol antibiotics and anti-inflammatory medicines to treat respiratory problems and inflammation. It explores novel therapeutic techniques to address cystic fibrosis, including gene therapy, personalized medicine, novel delivery systems.

Apple Academic Press
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Data Analytics and Smart Technologies in Solid Waste Management

Advancing Sustainability



Edited by Moharana Choudhury , Sushobhan Majumdar , Avnish Chauhan

A timely exploration of how modern innovations and technologies can transform waste management practices, covering techniques and technologies for material recovery, waste segregation, etc. Responsible waste disposal, treatment, and recycling strategies are discussed, including managing landfills, anaerobic digestion and composting, hazardous and special wastes, incineration processes and emission control, and energy recovery. Also addresses the policies, regulations, and outlook in environmental management and sustainable practices that involve data-driven solutions and smart waste technologies. Case studies of waste management in specific areas of the world are presented as well.

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DeFi Adoption in the Energy and Utilities Industry

Toward Sustainable Digital Transformation



Edited by Pushan Kumar Dutta , S. B. Goyal , Chaman Verma , Hemachandran Kannan

A timely exploration of the impact of DeFi on the energy sector along with a focus on guidance and solutions to the challenges of adopting these technologies. It looks at the integration of DeFi platforms, wherein the energy sector can unlock new possibilities, explaining how producers of renewable energy can leverage DeFi to create tokens representing their energy output. It explores digital automation capabilities to execute energy-related transactions. Topics include the role of DeFi in promoting financial inclusion and accessibility through access to financial services, such as microloans and energy-backed securities.

Apple Academic Press
August 2026 : 426pp
Hb: 978-1-779-64239-4 : £150

* For full contents and more information, visit: www.routledge.com/9781779642394

Demystifying Sustainable Farming Using Smart Technologies



Edited by Gunjan Chhabra , Keshav Kaushik , Priya Chugh , Susheela Dahiya , Aryan Chaudhary

Bridges the gap between traditional agricultural practices and new technological innovations, focusing on the transformative potential of AI and ML in agriculture. Covering myriad topics on smart agriculture, it highlights the concept of Agriculture 5.0 and explores technological means for increasing efficiency with regard to supply chain, pest control, farming techniques, climate change, irrigation, and more. Technologies covered in the book include agricultural drones and robotics, the Internet of Things, blockchain technology, image processing-based applications, smart monitoring devices, augmented and virtual reality applications, data-driven mobile apps, and more.

Apple Academic Press
June 2026 : 450pp
Hb: 978-1-779-64092-5 : £150
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Embracing the AI Frontier

Perspectives on Business and Organizational Development



Edited by Mihir Joshi , Mohsen Brahmi

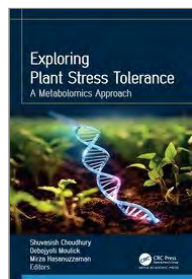
Explores the integration of AI into the core functions of business that help to meet the need in redefining industries, job roles, and organizational structures. Some AI technologies included are blockchain, ChatGPT 3.5, robotics, machine learning, data analytics, and others. The volume looks at myriad examples of businesses and organizations adopting AI applications, including in human resource management, in tourism development for family businesses, in E-learning and technology education, for enhancing sustainability in agriculture, in medicine and healthcare, etc.

Apple Academic Press
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Exploring Plant Stress Tolerance

A Metabolomics Approach



Edited by **Shuvasish Choudhury , Debojyoti Moulick , Mirza Hasanuzzaman**

Covers the factors affecting plant responses to stresses, taking a metabolomics approach in plants, which involves a comprehensive and systematic analysis of the complete set of metabolites present within plant tissues. Discusses the mechanisms of stresses and identification of traits, looks at metabolomics in comprehending plant responses to metalloid stress, heavy metal stress, plant-insect interaction, plant-pathogen interaction, high- and low-temperature stress, and regulation of reactive oxygen species (ROS) production, etc.

Apple Academic Press
June 2026 : 436pp
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Genetic Editing for Healthcare

Advances in Disease Management



Edited by **Bhupinder Singh , Rishabha Malviya , Sahil Lal , Sathvik Belagodu Sridhar**

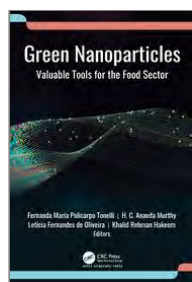
Explores the trends in biomedical research on the integration of genome editing and its potential benefits in medicine and the healthcare industry. It explores the advent of technologies, such as CRISPR-Cas-9, TALENs (transcription activator-like effector nucleases), and ZFNs (zinc-finger nucleases). It covers their mechanisms of action and how effectively they can help machinery to overcome genetic failures. It also looks at the practical uses of genome editing in healthcare, providing examples of state-of-the-art gene-modifying tools to tackle life-threatening genetic diseases.

Apple Academic Press
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Hb: 978-1-779-64381-0 : £150

* For full contents and more information, visit: www.routledge.com/9781779643810

Green Nanoparticles

Valuable Tools for the Food Sector



Edited by **Fernanda Maria Policarpo Tonelli , H. C. Ananda Murthy , Letícia Fernandes de Oliveira , Khalid Rehman Hakeem**

Various aspects associated with the food sector are explored, presenting nanomaterials, especially green nanoparticles, as strategic tools for optimizing the food sector potential in fulfilling human nourishment needs. It addresses themes such as smart packaging; how green antimicrobial nanoparticles are revolutionizing food safety and packaging; and green nanoparticles as nanofertilizers, nanoinsecticides, nanonematicides, and nanoherbicides. It also discusses the use of green nanoparticles for the management of plant stresses, their use as nanoremediators for water and soil pollution, their use in sensors to detect pollutants, and much more.

Apple Academic Press
June 2026 : 376pp
Hb: 978-1-779-64018-5 : £180
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Halal Tourism

Achieving Muslim-Friendly Tourism Destinations



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Edited by **Hüseyin Pamukçu , Ömer Akgün Tekin , Shruti Arora**

Series: Advances in Hospitality and Tourism

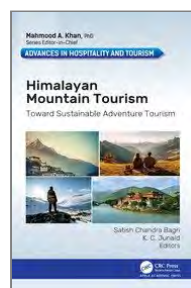
Considers the increase in tourism by Muslims and focuses on this expanding area of tourism wherein tourism activities are carried out in accordance with Islamic principles. The result of the meticulous efforts of many minds from India, Bangladesh, Turkey, Malaysia, China, Morocco, Indonesia, Italy, and Uzbekistan, the book investigates new innovative business opportunities for halal tourism services, halal tourism in social ecosystem management, the impact of halal hotel service quality on hotel prices, an evaluation of a halal expo fair, e-commerce as a sales channel for halal food, and more. A chapter even covers Muslim-friendly eco-tourism as a solution to global problems.

Apple Academic Press
August 2026 : 286pp
Hb: 978-1-779-64126-7 : £140

* For full contents and more information, visit: www.routledge.com/9781779641267

Himalayan Mountain Tourism

Toward Sustainable Adventure Tourism



Edited by **Satish Chandra Bagri , Junaid K. C.**

Series: Advances in Hospitality and Tourism

Spanning the countries of India, Nepal, China, Tibet, Pakistan, and Bhutan, this book serves as a comprehensive guide to understanding the intricate dynamics of adventure tourism in the Himalaya. It addresses the challenges of preserving the very environment that draws adventure tourists to the Himalaya. The diverse topics cover environmental impacts and management, local governmental efforts, culinary allure and destinations, trekking tourism and solid waste management, spiritual and wellness tourism in the Himalaya, the promotion of sustainable cultural exchange and education, Himalayan pilgrimage tourism, along with case studies on sustainable ecotourism in this region.

Apple Academic Press
June 2026 : 464pp
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Holistic Approaches for Women's Sustainable Health

Volume 1: Foundations, Innovations, Challenges, and Management



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Edited by **Megh R. Goyal , Anamika Chauhan , Junaid Ahmad Malik**

Volume 1 covers a wide variety of themes including ethical considerations in women's healthcare, the health benefits of music and aroma therapy, yoga and meditation, and holistic approaches to depression and migrant headache. The volume explores the use of technological innovations in women's health, such as employing robotic surgery, artificial intelligence and machine learning. It also looks at the impact of certain medical conditions and substance abuse on the health of women and fetuses, impact of pesticides on neurological and general health of women, and more.

Apple Academic Press
September 2026 : 412pp
Hb: 978-1-779-64162-5 : £150

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Holistic Approaches for Women's Sustainable Health

Volume 2: Advancements, Socioeconomic Impacts, and Innovative Strategies



Edited by **Junaid Ahmad Malik, Anamika Chauhan, Megh R. Goyal**

Considers how women's health is impacted by social, cultural, psychological, socioeconomic, and biological elements. Explores the factors that impact women's health outcomes, such as marital relations and social problems, healthcare access, stress and mental health, psychological effects of certain medical illnesses like breast cancer, etc. Discusses digital ecosystems and the use of IoT and artificial intelligence in diagnostics to machine learning approaches for illness detection. New avenues for individualized and preventative care are made possible by the incorporation of cutting-edge technology like chatbots and ChatGPT into the healthcare industry.

Apple Academic Press
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Holistic Approaches for Women's Sustainable Health

Volume 3: Herbs, Spices, Phytochemicals, and Cereals: Care for Body and Cancer and Hormonal Disorders



Edited by **Megh R. Goyal, Anamika Chauhan, Kamalesh Raja**

Looks at modern science with time-honored traditions, offering an in-depth exploration of nutrients and traditional natural medicines in fostering female health. Chapters discuss the vitamins and minerals essential for reproductive health as well as traditional herbal and medicinal remedies that have been used for centuries to treat female-specific ailments or how illness specifically affect women, such as infections, diabetes, polycystic ovary syndrome (PCOS), tuberculosis, etc. Also discussed are herbal remedies for the maintenance of vaginal health and hygiene as well as the health benefits of various spices, cereals and pseudocereals, milk and milk products, garlic, and more.

Apple Academic Press
September 2026 : 462pp
Hb: 978-1-779-64166-3 : **£150**

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Holistic Approaches for Women's Sustainable Health

Volume 4: Benefits of Vegetables and Medicinal Plants and Trees



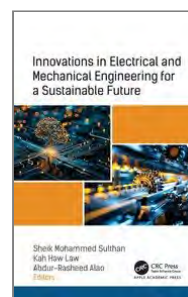
Edited by **Megh R. Goyal, Anamika Chauhan, Kamalesh Raja**

Volume 4 delves into the significant role of traditional medicinal plants and various natural remedies in promoting and sustaining female health. The book provides a broad overview of how medicinal plants have been historically utilized to support women's health and how contemporary research continues to validate their efficacy. The book also extols the benefits of vegetables and herbs in women's health, examining specific vegetables that offer unique health advantages for women, such as watercress, moringa, basil, etc. Others known for their potential to support female health are included, such as saffron milk, wild yam, various tree extracts, etc., are highlighted as well.

Apple Academic Press
September 2026 : 375pp
Hb: 978-1-779-64168-7 : **£150**

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Innovations in Electrical and Mechanical Engineering for a Sustainable Future



Edited by **Sheik Mohammed Sulthan, Kah Haw Law, Abdur-Rasheed Alao**

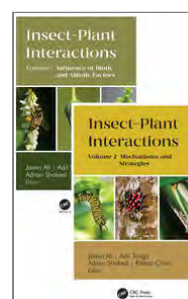
Presents a collection of cutting-edge research contributions across various engineering and technological domains, showcasing advancements in electrical power system, power electronics, communication systems, artificial intelligence & machine learning, materials science, fluid dynamics, manufacturing, and renewable energy. The chapters cover a broad spectrum of topics, including machine learning applications for communication networks and biometric detection, optimization of industrial processes, structural integrity of composite materials, and innovative approaches in sustainable energy solutions.

Apple Academic Press
June 2026 : 432pp
Hb: 978-1-779-64407-7 : **£150**
eBook: 978-1-779-64408-4

* For full contents and more information, visit: www.routledge.com/9781779644077

Insect-Plant Interactions

2-volume set



Edited by **Jamin Ali, Adil Tonga, Adnan Shakeel, Nasheeman Ashraf, Rizhao Chen**

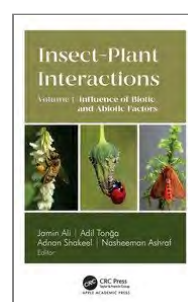
Explores the diverse defense strategies plants employ to deter herbivorous insects, from structural adaptations to chemical defenses and molecular signaling pathways. It offers an in-depth exploration of the complex insect-plant interactions by integrating perspectives from ecology, entomology, plant physiology, and agroecosystem management. It also explores structural plant defenses, highlighting the physical barriers plants develop against herbivores. It also explores the role of microbes in influencing plant-feeding insects, bridging microbiology and entomology in understanding plant defense strategies.

Apple Academic Press
June 2026 : 815pp
Hb: 978-1-779-64426-8 : **£320**

* For full contents and more information, visit: www.routledge.com/9781779644268

Insect-Plant Interactions

Volume 1: Influence of Biotic and Abiotic Factors



Edited by **Jamin Ali, Adil Tonga, Adnan Shakeel, Nasheeman Ashraf**

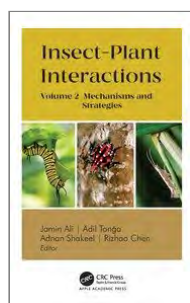
Sheds light on how insects and plants collaborate for mutual benefit. It covers insect-mediated plant pathogen transmission and the complex web of interactions among sucking pests, herbivores, and natural enemies. It focuses on the evolutionary arms race between plants and insects, including the biochemical and structural defense mechanisms plants employ to deter herbivores. Induced plant defenses and their applications in pest management are explored as are the role of nematodes in insect-plant interactions. Climate change and environmental shifts are examined. In addition, novel approaches to pest management are discussed.

Apple Academic Press
June 2026 : 452pp
Hb: 978-1-779-64427-5 : **£150**
eBook: 978-1-779-64428-2

* For full contents and more information, visit: www.routledge.com/9781779644275

Insect-Plant Interactions

Volume 2: Mechanisms and Strategies



Edited by **Jamin Ali , Adil Tonga , Adnan Shakeel , Rizhao Chen**

Explores structural plant defenses, highlighting the physical barriers plants develop against herbivores. The chemistry of secondary metabolites is discussed, detailing their role in plant protection. Jasmonate-mediated plant responses to sap-sucking herbivores and molecular signaling cascades are discussed. Chapters examine cutting-edge genetic approaches to insect resistance, focusing on the role of plant genomes and the promise of RNA interference (RNAi) as a pest management strategy. Also explored are chemical and microbial contributions to plant-insect interactions.

Apple Academic Press
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Integrative Approaches to Quality, Data Analysis, and Interdisciplinary Research



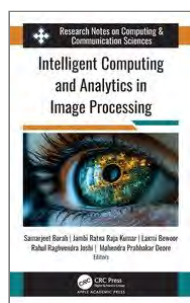
Edited by **Amir Ahmad Dar , Waseem Z. Lone**

Emphasizing cross-disciplinary approaches, offers methods and applications for data analysis and interdisciplinary research, including statistical methods, CUSUM (Cumulative Sum) control charts, Poisson distribution models, Bayesian approach, software programs like Mathematica, ML algorithms, big data, and more. It focuses on the transformative power of data analysis in addressing complex challenges in areas including environmental problems, healthcare, agriculture, and more. Offers a wide range of case studies for integrating quality management, data analysis, and multidisciplinary research, from solving urgent environmental challenges to improving public health.

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eBook: 978-1-779-64101-4

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Intelligent Computing and Analytics in Image Processing



Edited by **Samarjeet Borah , Jambi Ratna Raja Kumar , Laxmi Bewoor , Rahul Raghvendra Joshi , Mahendra Prabhakar Deore**

Explores the amalgamation of intelligent computing, analytics, and image processing, introducing novel applications of smart technologies in image processing and presenting new solutions to image processing challenges. Discusses the processing of biological and biomedical imaging, looking at ML and deep learning for diagnosis and detection of brain tumors, diabetes, pneumonia, heart disease, etc. Also looks at image processing for detecting plant type and leaf disease, classifying and counting fruit, forensics analysis, face detection emotion, sketch-to-photo synthesis, and more.

Apple Academic Press
August 2026 : 310pp
Hb: 978-1-779-64076-5 : £150

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Mastering Data Science

Unraveling Patterns and Predictive Analytics for Building Intelligent Systems



Aashi Singh Bhadouria , Anamika Ahirwar

Provides a comprehensive introduction to the field of data science, covering essential concepts, techniques, and technologies, from foundational principles to advanced topics. Through practical examples, case studies, and hands-on exercises, the book details data analysis, data mining, big data technologies, statistical analysis, machine learning, and ethical considerations. It simplifies core concepts such as data patterns, statistical foundations, machine learning algorithms, and ethical considerations in data science. It explores emerging trends and challenges in the field, including the ethical implications of data-driven decision-making and future trends.

Apple Academic Press
August 2026 : 536pp
Hb: 978-1-779-64050-5 : £180

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Meat Composition and Nutrition



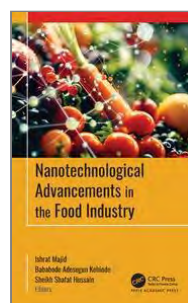
Edited by **Owais Yousuf , Kaiser Younis , Khwaja Osama**

Comprehensively explores the biochemical makeup, nutritional properties, and broader implications of meat consumption. It documents the major and minor components of the meat; meat processing technology, meat products and packaging, meat analysis and regulations, meat by-products, and meat alternatives. It covers meat proteins and their nutritional value, meat fat, meat minerals and vitamins, meat pigments, meat slaughtering, meat analysis techniques, meat processing operations, meat products, meat packaging and storage, meat transportation, meat laws and food safety regulations, health and environmental concerns of meat, meat by-products and plant-based meat alternatives.

Apple Academic Press
June 2026 : 440pp
Hb: 978-1-779-64052-9 : £180
eBook: 978-1-779-64053-6

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Nanotechnological Advancements in the Food Industry



Edited by **Ishrat Majid , Bababode Adesegun Kehinde , Sheikh Shafat Hussain**

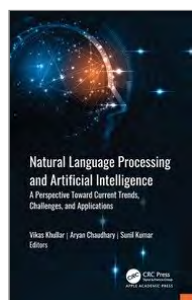
Looks at the latest nanotechnological developments in the food industry. It gives an overview of nanoscience progress in food technology and then focuses on the latest research and techniques in the field, such as advancements in food packaging to maintain quality and lengthen shelf life; food nanosensors that can detect pathogenic bacteria, toxins, adulterants, vitamins, dyes, fertilizers, pesticides, taste and smell; nano-delivery food systems that allow delivery of food bioactives to a particular or targeted site in the body; bioremediation of food wastes using nanotechnology, and more. It covers challenges and future perspectives of nanotechnologically derived and enhanced foods.

Apple Academic Press
June 2026 : 274pp
Hb: 978-1-774-91974-3 : £170
eBook: 978-1-774-91975-0

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Natural Language Processing and Artificial Intelligence

A Perspective Towards Current Trends, Challenges, and Applications



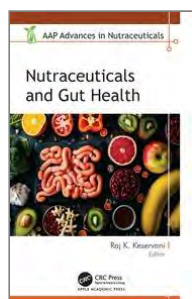
Edited by **Vikas Khullar , Aryan Chaudhary , Sunil Kumar**

Focuses on natural language processing (NLP), artificial intelligence (AI), and allied areas, discussing theoretical work and advanced applications, approaches, and techniques for computational models of information and how they are presented by language (artificial, human, or natural in other ways). It looks at intelligent natural language processing and related models of thought, mental states, reasoning, and other cognitive processes. It also explores difficult problems and challenges related to partiality, under specification, and context-dependency, which are signature features of information in nature and natural languages.

Apple Academic Press
June 2026 : 460pp
Hb: 978-1-998-51126-6 : £170
eBook: 978-1-998-51127-3

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Nutraceuticals and Gut Health



Edited by **Raj K. Keservani**

Series: AAP Advances in Nutraceuticals

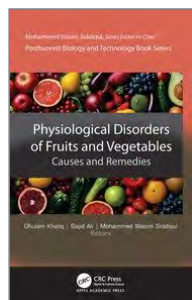
Analyzes existing knowledge on the connection between gut microbiota and nutraceuticals. It presents recent studies on the advantages of antioxidants and nutraceuticals for gut health, looking at the interactions between different nutraceuticals and the human body, including resveratrol, curcumin, and omega-3 fatty acids, as well as their modes of action. It discusses microbiota as an immunity-boosting agent, and the management of gut health with prebiotics, probiotics, and nutraceuticals. It discusses fiber and bioactive compounds in gut health, personalized diets and supplements for gut health, and much more.

Apple Academic Press
June 2026 : 410pp
Hb: 978-1-779-64060-4 : £180
eBook: 978-1-779-64061-1

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Physiological Disorders of Fruits and Vegetables

Causes and Remedies



Edited by **Ghulam Khaliq , Sajid Ali , Mohammed Wasim Siddiqui**

Series: Postharvest Biology and Technology

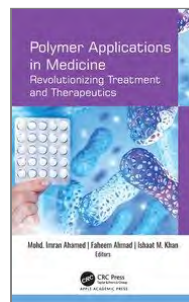
Explores the postharvest physiological disorders affecting fruits and vegetables, investigating their diverse morphological structures, compositions, and general physiology. It explains the causes, occurrence, symptoms, and mechanisms of control for these disorders. Covers the principles, food safety techniques, and mechanisms of postharvest physiological disorders,

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Polymer Applications in Medicine

Revolutionizing Treatment and Therapeutics



Edited by **Mohd. Imran Ahamed , Faheem Ahmad , Ishaat M. Khan**

Explores the profound impact polymers have made in the medical field and delves into the multidisciplinary aspects of their utilization. The book looks at polymers in inflammatory disease therapy and tailored formulations of polymers and their ability to address the complex nature of inflamed tissues. The book looks at the utilization of 3D printed polymers in medicine for tissue engineering scaffolds and for drug delivery systems. Also discusses biodegradable polymers in drug delivery and tissue engineering that offer new possibilities for controlled release systems and complex tissue regeneration are explored also.

Apple Academic Press
June 2026 : 270pp
Hb: 978-1-779-64086-4 : £150
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Robo-Advisors and Artificial Intelligence in Human Resources Management: Revolutionizing HR



Edited by **Sanjay Taneja , Swati Gupta , Girish Lakhera , Mohit Kukreti , Ercan Özen**

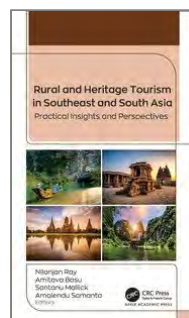
Discusses the relationship between technology and HRM, focusing on how AI and robo-advisors help businesses with strategies to enhance efficiency, introduce new methods, and make the best use of employees. Topics address robo-advisors for efficient hiring processes and recruitment marketing, augmenting employee quality of work-life and well-being, evaluating job satisfaction in connection gender diversity in leadership, for enhancing employee engagement and improving organizational performance, for analyzing shifting consumer purchase intentions, for enhancing wealth and investment management skills and financial literacy, and more.

Apple Academic Press
June 2026 : 316pp
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Rural and Heritage Tourism in Southeast and South Asia

Practical Insights and Perspectives



Edited by **Nilanjan Ray , Amitava Basu , Santanu Mallick , Amalendu Samanta**

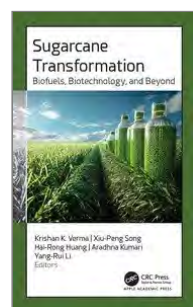
Explores the vibrant heritage of Southeast and South Asia and considers the prospects of rural tourism across it. Chapters explore various themes, including vocational tourism education, marketing strategies tailored for rural and heritage contexts, the socio-economic impacts of global phenomena such as the COVID-19 pandemic, and the critical role of sustainable practices. Explorations extend to the interplay of marketing communication and demographic characteristics in heritage tourism, the influence of social media on traveler behavior, the profound implications of terrorism on tourism dynamics.

Apple Academic Press
June 2026 : 356pp
Hb: 978-1-779-64066-6 : £170
eBook: 978-1-779-64067-3

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Sugarcane Transformation

Biofuels, Biotechnology, and Beyond



Edited by **Krishan K. Verma, Xiu-Peng Song, Hai-Rong Huang, Aradhna Kumari, Yang-Rui Li**

Explores sugarcane-based biofuels and the green technology revolution, looking at the role of sugarcane in addressing the global energy crisis. Summarizes the production, management, and socioeconomic impact of sugarcane as well as its related sustainability issues. It focuses on biotechnical modification for sugarcane plants for biofuel and bioenergy production, such as advanced breeding approaches, assessment of the genetic integrity of sugarcane, optimization of sugarcane nutrient management strategies, and more. It also looks at the environmental impacts of sugarcane production for biofuels and its environmental sustainability as well as the economic benefits.

Apple Academic Press
July 2026 : 528pp
Hb: 978-1-779-64156-4 : £170

* For full contents and more information, visit: www.routledge.com/9781779641564

Sustainable and Inclusive Economic Development

A Global Perspective



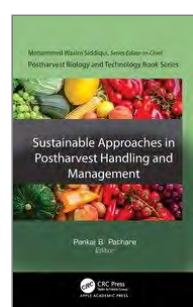
Edited by **Akhilesh Chandra Prabhakar, Vasilii Erokhin, K. Kuperan Viswanathan, Poshan Yu**

Presents innovative approaches to a new interpretation of sustainable development concepts in light of the post-pandemic revival of global economic activity. It also explores possible solutions to the energy-environment-development trilemma. It addresses the effects of tariff escalations, administrative restrictions, and other forms of trade protectionism on global supply chains. Ultimately, the authors probe into many choices that link national, regional, and global policies extensively with the provision of sustainable supply, welfare, and economic growth through international cooperation in the new era of post-COVID global economy.

Apple Academic Press
August 2026 : 404pp
Hb: 978-1-998-51168-6 : £180

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Sustainable Approaches in Postharvest Handling and Management



Edited by **Pankaj B. Pathare**

Series: Postharvest Biology and Technology

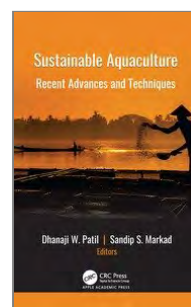
Presents new research on sustainable postharvest handling and management techniques for fresh produce with quality, safety, and self-life extension. Topics include irradiation, ozone, cold plasma, electrolyzed water, the use of edible coatings for shelf-life extension of fresh produce, quality detection through non-destructive techniques. Also covers novel advances such as the integration of blockchain and the IoT in the fresh food supply chain to regain public trust by improving transparency and real-time visibility. The socioeconomic and environmental impacts of postharvest losses are addressed as well.

Apple Academic Press
June 2026 : 528pp
Hb: 978-1-779-64106-9 : £150
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Sustainable Aquaculture

Recent Advances and Techniques



Edited by **Dhanaji W. Patil, Sandip S. Markad**

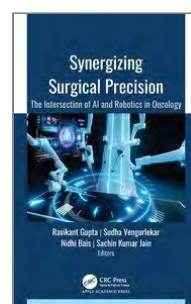
This new book, Sustainable Aquaculture: Recent Advances and Techniques, provides comprehensive insights into current aspects of aquaculture as well as recent technological advances in the field. It offers information on new technologies and innovations, management practices, diversification efforts, environmental impacts, and biosecurity issues in aquaculture today. The book first covers the status and scope of contemporary aquaculture, giving an overview and synoptic understanding of the sector.

Apple Academic Press
August 2026 : 490pp
Hb: 978-1-779-64110-6 : £150

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Synergizing Surgical Precision

The Intersection of AI and Robotics in Oncology



Edited by **Ravikant Gupta, Sudha Vengurlekar, Nidhi Bias, Sachin Kumar Jain**

Offers a detailed examination of how AI and robotics are being integrated into oncological surgery. It details the technological advancements that are setting new benchmarks in the field. The authors address the ethical and practical challenges that accompany these advancements. Issues such as data privacy, informed consent, and the potential biases in AI systems are explored. It takes a multidisciplinary approach and brings together insights from leading surgeons, oncologists, technologists, and ethicists, providing a holistic view of the current state and future potential of AI and robotics in oncology.

Apple Academic Press
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Hb: 978-1-779-64070-3 : £180
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Technological Advancements in Sustainable Crop Improvement and Production



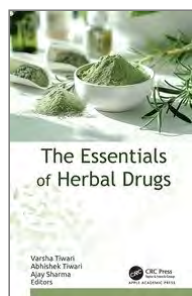
Edited by **Devendra Kumar, Alok Kumar Singh, Nisha Malik**

Discusses advances in crop improvement and production technologies, focusing on the need for sustainability. It explores the integration of biotechnology in crop production, offering solutions, from developing crops resistance to abiotic stresses such as drought and salinity to enhancing crop nutritional content and postharvest quality. Topics include molecular markers as an emerging strategy for crop improvement, applications of genome editing in modern crop technology, tissue culture techniques and their role in crop improvement and applications of nanotechnology for sustainable development of agriculture.

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The Essentials of Herbal Drugs



Edited by **Varsha Tiwari, Abhishek Tiwari, Ajay Sharma**

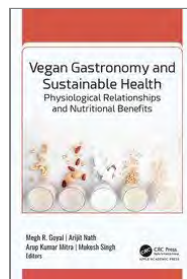
Details the role of traditional healing practices, discussing the diverse forms and therapeutic benefits of herbs. Important topics on the use of herbal drugs in modern times are discussed, including quality control of herbal drugs and standardization, proper methods of cultivation, extraction and assessment, isolation, identification and analysis of phytoconstituents, and understanding the metabolic pathways of plants. It looks at nutraceuticals and their regulatory requirements and challenges. It observes the biological screening, toxicity testing, and regulations of herbal drugs.

Apple Academic Press
June 2026 : 420pp
Hb: 978-1-998-51176-1 : **£170**
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Vegan Gastronomy and Sustainable Health

Physiological Relationships and Nutritional Benefits



Edited by **Megh R. Goyal, Arijit Nath, Arup Kumar Mitra, Mukesh Singh**

Details on what veganism is, the impact of major food items on a vegan diet, and the sustainable health benefits of vegan diets. It covers the phylogenetic history of a vegan diet, and its integration in human health. It discusses the impact of legumes in a vegan diet as a means of alternative protein source for animals. Chapters also explore the "superfood" mushroom. The impact of veganism on sustainable health benefit, both as a part of a regular diet and as a recovery diet from critical ailments like COVID, cancer, etc., is discussed. It also discusses the critical role of different prebiotics and probiotics, nutraceuticals, and phyto-metabolites in a vegan diet.

Apple Academic Press
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The Role of Nanotechnology in Holistic Lung Cancer Management and Treatment



Edited by **Abhishek Tiwari, Varsha Tiwari, Manish Kumar**

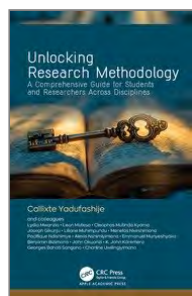
Explores cutting-edge strategies in combating lung cancer and minimizing its harm. It offers valuable insights into different aspects of lung cancer management, including the roles of dendrimers, polymeric micelles, nano-emulsions, inhalation delivery systems, novel nano-imaging platforms, hydrogels, quantum dots, and nanotherapeutics. It also covers drug delivery systems such as inhalation drug delivery systems, polymeric nanoparticle-based drug/gene delivery, SLN-based gene delivery, and liposome-based drug delivery for lung cancer. This book also addresses the impact of carcinogenic pollutants on lung cancer development.

Apple Academic Press
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Hb: 978-1-779-64020-8 : **£180**

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Unlocking Research Methodology

A Comprehensive Guide for Students and Researchers Across Disciplines



Callixte Yadufashije PhD

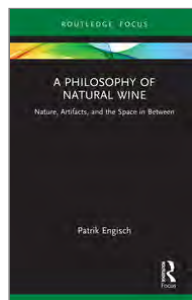
Provides the guidance needed for crafting dissertations and scientific articles. It serves as a step-by-step guide for those interested in learning about academic writing and publishing. The book focuses on the various components of dissertations and scientific papers, detailing how they should be written, formatted, and what key elements should be included in each section, which sets the book apart from others that have been published. It offers insights into the research process and provides a thorough explanation of each part of a dissertation, from the research title to the results and discussion of findings.

Apple Academic Press
June 2026 : 260pp
Hb: 978-1-779-64310-0 : **£120**
eBook: 978-1-779-64311-7

* For full contents and more information, visit: www.routledge.com/9781779643100

A Philosophy of Natural Wine

Nature, Artifacts, and the Space in Between



Patrik Engisch

Series: Routledge Studies in the Philosophy of Food

This book examines whether wine can be natural and explores what this means and why it matters. Written to be accessible to non-specialists, it brings much-needed clarity around the topic of natural wine and offers a new and rigorous conceptual toolbox to consumers, producers, and experts to better describe, and ultimately make sense of, their practices. It will appeal to philosophers working in aesthetics, metaphysics, and the philosophy of food and drink, as well as to researchers in food studies, cultural history, and wine studies. Winemakers, critics, and engaged wine enthusiasts will find in it an illuminating framework for thinking about a practice they care deeply about.

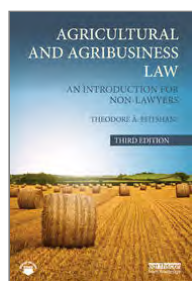
Routledge
May 2026 : 130pp
Hb: 978-1-041-01953-4 : **£55.99**
eBook: 978-1-003-61708-2

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3RD EDITION

Agricultural and Agribusiness Law

An Introduction for Non-Lawyers



Theodore A. Feitshans North Carolina State University, USA

This textbook provides a comprehensive introduction to the key concepts of agricultural and agribusiness law in the United States. The fully revised and updated edition addresses significant legal developments, including changes in trade, taxation, water law, intellectual property, and animal law. Additional online resources are provided, including quiz questions for each chapter and PowerPoint slides. This textbook is essential for students of agriculture and land-based services with little or no legal background, as well as those studying agribusiness. The book also serves as a useful reference for agricultural professionals.

Routledge
October 2026 : 382pp
Pb: 978-1-032-67270-0 : **£44.99**
Hb: 978-1-032-67271-7 : **£155**

* For full contents and more information, visit: www.routledge.com/9781032672700

Agroecology for Sustainable and Resilient Farming



Miguel Altieri University of California, USA, **Clara L. Nicholls**

Series: Earthscan Food and Agriculture

This textbook provides an introduction to agroecology, based on three main components: its grounding in agricultural and ecological science; its practice in environmentally-friendly resilient farming systems; and as part of a sustainable food system and social movement based on justice and food sovereignty. It will be suitable for advanced undergraduate and graduate courses in agroecology and ecological agriculture.

Routledge
October 2026 : 288pp
Hb: 978-0-815-35942-5 : **£55.99**

* For full contents and more information, visit: www.routledge.com/9780815359425

AI-Powered Insurance

Exploring New Frontiers



Edited by **Gulbir Singh, Om Prakash Dubey, Efrén Mezura-Montes**

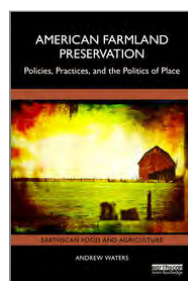
AI-Powered Insurance is a comprehensive exploration of how Artificial Intelligence is revolutionizing the global insurance industry. This book brings together cutting-edge research and real-world case studies, covering AI's transformative impact across underwriting, risk management, customer experience, and policy personalization. It examines emerging technologies, ethical challenges, and security concerns while analyzing machine learning applications in insurance policy evaluation. From automation versus human expertise to bibliometric research trends, the book offers diverse perspectives from leading experts.

CRC Press
August 2026 : 186pp
Hb: 978-1-041-04239-6 : **£125**

* For full contents and more information, visit: www.routledge.com/9781041042396

American Farmland Preservation

Policies, Practices, and the Politics of Place



Andrew Waters

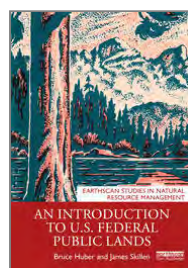
Series: Earthscan Food and Agriculture

This book examines modern American farmland preservation, arguing that its policies must address the social, identity, and psychological issues facing American farmers. While the American farmland preservation movement has focused on conservation easements, permanent land restrictions that work within the American legal system's preference for inalienable property rights, the author argues for a new era of farmland preservation based on stakeholder-led solutions. This book will be of great interest to students and scholars of food and agriculture, rural sociology, environmental management, as well as professionals working in farmland management, conservation and preservation.

Routledge
June 2026 : 248pp
Pb: 978-1-041-08255-2 : **£41.99**
Hb: 978-1-041-08256-9 : **£155**
eBook: 978-1-003-64454-5

* For full contents and more information, visit: www.routledge.com/9781041082552

An Introduction to U.S. Federal Public Lands



Bruce Huber, James Skillen

Series: Earthscan Studies in Natural Resource Management

This book provides a comprehensive and engaging introduction to the U.S. federal land system, explaining how public lands are used and managed. It explains the basic legal authority for land management and discusses the current priorities codified in American law. This book will be essential reading for students, scholars, and citizens interested in the federal lands, natural resource management, human geography, public policy, and environmental law. Each chapter concludes with study questions and recommendations for further reading. It will be of great use to those who have or envision a career in land and resource management, particularly in the United States.

Routledge
August 2026 : 260pp
Pb: 978-1-032-47395-6 : **£41.99**
Hb: 978-1-032-49185-1 : **£155**

* For full contents and more information, visit: www.routledge.com/9781032473956

An Organisational Guide to Skills for Green Workforce Transformation



Edited by Karen Cripps, Candy Ho

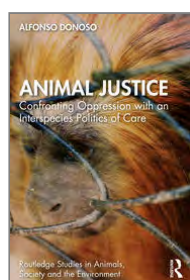
Series: Routledge Research in Sustainability and Business

Readers of this book will gain practical insights into addressing green transition challenges related to climate, decarbonisation, biodiversity, and social equity through strategic skills development.

Routledge
July 2026 : 306pp
Pb: 978-1-041-09012-0 : **£37.99**
Hb: 978-1-041-09009-0 : **£155**
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Animal Justice

Confronting Oppression with an Interspecies Politics of Care



Alfonso Donoso

Series: Routledge Studies in Animals, Society and the Environment

This book examines the shared oppressions of human and non-human animals and argues that a non-speciesist politics of care is required in order to respond to the violence that billions of animals routinely suffer at human hands. Situated at the intersection of political theory, care ethics and environmental philosophy, this book will be of interest for students and researchers in animal ethics, animal political theory, and animal studies, as well as advocates and activists for social justice.

Routledge
October 2026 : 208pp
Pb: 978-1-032-56165-3 : **£41.99**
Hb: 978-1-032-56299-5 : **£155**
* For full contents and more information, visit: www.routledge.com/9781032561653

Animals and Business

An Interspecies Approach to Responsible Management

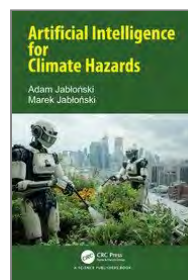


Helen Wadham, José-Carlos García-Rosell, John Lever

This book explores the role, impact and experiences of animals within organisations and the wider socioeconomic contexts in which they participate. Developed in dialogue with international scholars, the book's central claim is simple: Business is better understood, and better practised, when we recognise the animals whose lives and labour are intertwined with it. This book is essential reading for students and researchers working at the intersection of business studies, animal studies and sustainability.

Routledge
August 2026 : 244pp
Pb: 978-1-032-95565-0 : **£41.99**
Hb: 978-1-032-95570-4 : **£155**
* For full contents and more information, visit: www.routledge.com/9781032955650

Artificial Intelligence for Climate Hazards



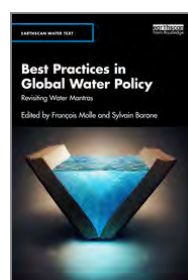
Adam Jabłoński WSB University in Poznan, Poland,
Marek Jabłoński WSB University in Poznan, Poland

The aim of the monograph is to present a modern and original approach to the design and implementation of effective and efficient artificial intelligence solutions that ensure the induction of positive climate change. The monograph presents the application of digital business models and strategies combining solutions for digital and climate transformation. Digital platform solutions based on algorithms changing the functioning of technical organizations will be presented. Applied technological management, supported by elements of automation and robotics, will shape the emergence of new climate services.

CRC Press
May 2026 : 180pp
Hb: 978-1-032-56129-5 : **£125**
eBook: 978-1-003-43401-6
* For full contents and more information, visit: www.routledge.com/9781032561295

Best Practices in Global Water Policy

Revisiting Water Mantras



Edited by François Molle, Sylvain Barone

Series: Earthscan Water Text

This volume challenges the assumption that dominant water-management solutions are universally effective, neutral and scientifically validated. This book argues for a more sceptical, politically-aware and context-sensitive approach to water management. It calls for a shift in the burden of proof: rather than accepting a best practice as effective unless proven otherwise, water governance should start by scrutinizing the potential externalities, risks and limitations of any proposed intervention. This book is essential reading for students, academics and professionals in water policy, water governance and environmental management more broadly.

Routledge
May 2026 : 310pp
Pb: 978-1-041-25190-3 : **£41.99**
Hb: 978-1-041-25192-7 : **£155**
* For full contents and more information, visit: www.routledge.com/9781041251903

Biochar

Fueling a New Economy in the Developing World



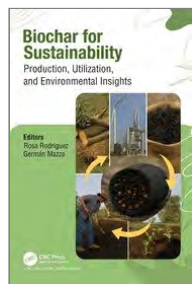
Edited by Sara de Jesus Duarte, Patrick Atanasije Pineda

Biochar: Fueling a New Economy in the Developing World reveals how biochar is emerging as a powerful tool for climate change mitigation, economic resilience, and sustainable development. Across agriculture, carbon markets, policy, and innovation, it presents practical pathways to turn biochar into scalable, financeable solutions. By showcasing global case studies and forward-looking strategies, the book offers a bold vision of biochar as an enabler of livelihoods, climate action, and inclusive growth—unlocking new opportunities for communities and economies worldwide.

CRC Press
July 2026 : 186pp
Hb: 978-1-032-72178-1 : **£115**
* For full contents and more information, visit: www.routledge.com/9781032721781

Biochar for Sustainability

Production, Utilization, and Environmental Insights



Edited by **Rosa Rodriguez** National University of San Juan, Argentina, **Germán Mazza**

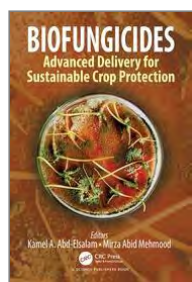
"Biochar for Sustainability: Production, Utilization, and Environmental Insights" offers a comprehensive examination of biochar, a carbon-rich material produced from biomass. This book guides readers from the foundational science of production—covering pyrolysis, gasification, and advanced modeling—to its diverse applications. These include carbon capture, wastewater treatment, soil enhancement, and its use in energy and composite materials. A critical focus on Life Cycle Assessment ensures a holistic view of its environmental impact.

CRC Press
May 2026 : 318pp
Hb: 978-1-032-71384-7 : £140
eBook: 978-1-032-72669-4

* For full contents and more information, visit: www.routledge.com/9781032713847

Biofungicides

Advanced Delivery for Sustainable Crop Protection



Edited by **Kamel Ahmed Abd-Elsalam** Plant Pathology Research Institute, Agricultural Research Center (ARC), Egypt, **Mirza Abid Mehmood**

Biofungicides: Advanced Delivery for Sustainable Crop Protection offers a thorough understanding of challenges in biofungicides delivery. The advent of nanoparticle formulations and encapsulation techniques has opened new possibilities for targeted delivery systems, controlled release, and improved stability of antifungal compounds. A combination of precision spraying technologies, such as variable rate applications, sensor-guided sprayers, and drone-based application systems, with Internet of Things tools like smart sensors, data analytics, and automated delivery systems, further increases the likelihood of success.

CRC Press
July 2026 : 254pp
Hb: 978-1-041-23248-3 : £105

* For full contents and more information, visit: www.routledge.com/9781041232483

Black Farmers in America

Fighting for an Equitable Food System



Mya O. Price

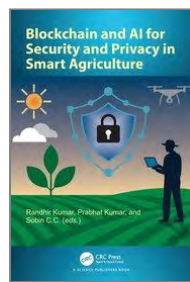
Series: *Earthscan Food and Agriculture*

This book presents a captivating exploration of the often-overlooked experiences, challenges, and enduring triumphs of black farmers in America. Through in-depth case studies in the Appalachian region, the Mississippi Delta, the U.S. South, Detroit, and Washington, D.C., the book highlights the resilience, creativity, and leadership of Black farmers navigating systemic barriers while building sustainable, community-rooted solutions. *Black Farmers in America* is an essential read for anyone seeking to actively participate in transforming our food systems into an equitable and inclusive space for all.

Routledge
August 2026 : 264pp
Pb: 978-1-032-84029-1 : £41.99
Hb: 978-1-032-84030-7 : £155

* For full contents and more information, visit: www.routledge.com/9781032840291

Blockchain and AI for Security and Privacy in Smart Agriculture



Edited by **Randhir Kumar** SRM University, India, **Prabhat Kumar**, **Sobin C C** SRM University, India

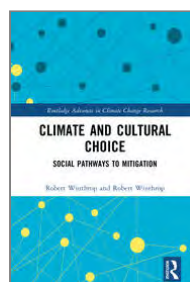
This book explores the integration of cutting-edge technologies to address emerging challenges in modern farming systems. It provides a comprehensive insight into how blockchain ensures data transparency, traceability, and trust, while artificial intelligence enhances decision-making, automation, and predictive analytics. It emphasizes securing agricultural data, protecting farmers' privacy, and building resilient smart agriculture ecosystems. Designed for researchers, academicians, and industry professionals, this book offers practical frameworks, case studies, and future directions in transforming agriculture through secure and intelligent technologies.

CRC Press
June 2026 : 334pp
Hb: 978-1-041-08282-8 : £105
eBook: 978-1-003-67056-8

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Climate and Cultural Choice

Social Pathways to Mitigation



Robert H. Winthrop

Series: *Routledge Advances in Climate Change Research*

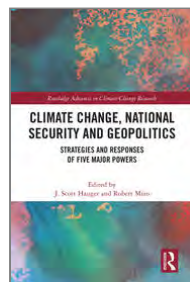
In *Climate and Cultural Choice*, Robert Winthrop offers some unconventional answers to two questions. Why are humans losing the fight against the climate crisis? What more can we do?

Routledge
September 2026 : 304pp
Hb: 978-1-041-26398-2 : £155

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Climate Change, National Security and Geopolitics

Strategies and Responses of Five Major Powers



Edited by **J. Scott Hauger**, **Robert Mizo**

Series: *Routledge Advances in Climate Change Research*

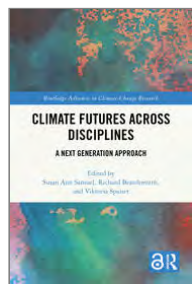
This book is a comprehensive study on how the national security sectors of China, India, Japan, Russia and the United States have engaged the idea of climate change as an existential threat. *Climate Change, National Security and Geopolitics* examines the respective ways in which the five states have framed the issue of climate change in relation to their larger national security construction. It investigates the extent to which these countries have engaged with climate change as a security challenge, and how this has informed their larger security policy making and practice.

Routledge
May 2026 : 204pp
Hb: 978-1-041-03901-3 : £145
eBook: 978-1-003-62588-9

* For full contents and more information, visit: www.routledge.com/9781041039013

Climate Futures Across Disciplines

A Next Generation Approach



Edited by **Susan Ann Samuel**, **Richard Beardsworth**, **Viktoria Spaier**

Series: *Routledge Advances in Climate Change Research*

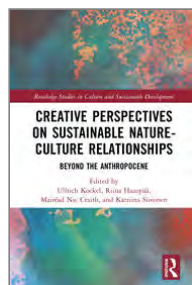
Climate Futures Across Disciplines explores the multifaceted nature of climate futures, showcasing how early career researchers are helping to pioneer what innovation in academia might look like.

Routledge
May 2026 : 266pp
Hb: 978-1-032-95231-4 : £155
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* For full contents and more information, visit: www.routledge.com/9781032952314

Creative Perspectives on Sustainable Nature-Culture Relationships

Beyond the Anthropocene



Edited by **Ullrich Kockel**, **Riina Haanpää**, **Mairéad Nic Craith**, **Katriina Siivonen**

Series: *Routledge Studies in Culture and Sustainable Development*

Developing a new understanding of the cultural relationships of humans with nature through heritage and tradition, this book examines ways of transforming these relationships sustainably, and assesses the impact on policy-related actions for ecologically embedded futures, drawing particularly on case studies from the European north. It provides new insights to both professionals and students in the fields of sustainability studies, involving human ecology, geography, landscape studies, cultural anthropology, cultural heritage studies, art, archaeology, performance, literature, linguistics, futures research, philosophy and beyond.

Routledge
July 2026 : 214pp
Hb: 978-1-041-21587-5 : £155

* For full contents and more information, visit: www.routledge.com/9781041215875

CRISPR-Cas9 as a Revolutionary Gene Editing Tool

Genome Engineering, Advances and Applications in Agriculture



Edited by **Abdul Basit** Kyungpook National University, South Korea, **Heba I. Mohamed** Ain Shams University, Egypt, **Syed Tanveer Shah** Hazara University Mansehra, Pakistan, **Mona F. A. Dawood** Assiut University, Egypt

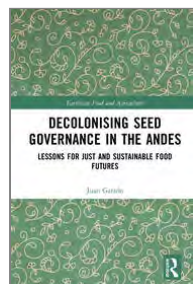
This book highlights the transformative impact of CRISPR-Cas9 in modern agriculture. It explains how this precise and efficient gene-editing technology enhances crop resilience to biotic stresses like pests, pathogens, and viruses, as well as abiotic stresses such as drought, salinity, heat, and cold. By targeting key genes responsible for plant defense and stress responses, CRISPR enables the development of high-yield, climate-resilient crops. The book emphasizes CRISPR's simplicity, cost-effectiveness, and potential to improve global food security, making it a cornerstone of sustainable agricultural biotechnology.

CRC Press
May 2026 : 326pp
Hb: 978-1-032-83553-2 : £140
eBook: 978-1-003-51820-4

* For full contents and more information, visit: www.routledge.com/9781032835532

Decolonising Seed Governance in the Andes

Lessons for Just and Sustainable Food Futures



Juan Garzón

Series: *Earthscan Food and Agriculture*

Focusing on the Latin American Andes region, this book examines how emerging decolonial narratives, practices, and rules have opened possibilities for structural change in agri-food systems. Using agricultural seeds as the site of analysis, the book reveals how struggles over knowledge, authority, and legitimacy are condensed in everyday practices of seed production, exchange, and regulation. It traces how Andean Seed Guardian Networks engaged the state to gradually reshape seed systems. This book will be of interest to scholars and practitioners in food studies, sustainability transitions, development studies, political ecology, social innovation, and Latin American studies.

Routledge
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Hb: 978-1-041-20111-3 : £155
eBook: 978-1-003-71509-2

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Designing Future-Oriented Solutions

Revolutionizing Decision-Making in Product Sustainability



Dominika Siwec Rzeszow University of Technology, Poland, **Andrzej Pacana** Rzeszow University of Technology, Poland

Series: *Routledge Research in Product Design*

This book introduces Method Supporting Product Improvement (MSPI), a method that aggregates key sustainability criteria during the product design and development stages, including conceptualization and prototyping. Presenting practical guidelines for predicting beneficial product solutions that also meet key sustainability criteria, Designing Future-Oriented Solutions for Sustainability will be of value to students, scientists, Research & Development managers, and engineers.

Routledge
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Hb: 978-1-041-22611-6 : £155

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Designing Immersive Participatory Practices for Enacting Eco-Social Transformations

Playful Encounters, Recovering Futures



Edited by **Ann Light**, **Harry Lewis**

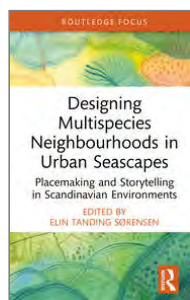
Presenting myriad accounts from artists and designers, this book explores how we can transform our societies to greet uncertain futures with greater readiness and care through immersive, creative experiences. Offering an opportunity to investigate an engaging approach to social transformation from all sides, this book will be of relevance to artists, designers, students of performance, transformation and sustainability professionals and anyone interested in how we move societies from current impasses to collective action and caring, collaborative worlds.

Routledge
September 2026 : 308pp
Pb: 978-1-041-11480-2 : £41.99
Hb: 978-1-041-11481-9 : £155

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Designing Multispecies Neighbourhoods in Urban Seascapes

Placemaking and Storytelling



Elin Tanding Sørensen

Series: Routledge Explorations in Environmental Studies

Designing Multispecies Neighbourhoods in Urban Seascapes offers a unique practice-led investigation into the complexities of multispecies placemaking, design, and storytelling in urban seascapes—drawing on experiences from the Oslofjord, the Skagerrak, Muolkkut in Finnmark County (Northern Norway), and the Atlantic coast of California.

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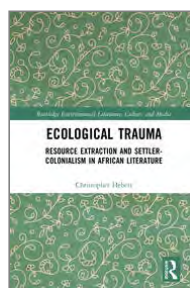
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Ecological Trauma

Resource Extraction and Settler-Colonialism in African Literature



Christopher Hebert

Series: Routledge Environmental Literature, Culture and Media

Intervening in debates across literary trauma theory and ecocriticism, this book argues that in an age increasingly defined by the impacts of anthropogenic climate change on society and ecology, it is necessary to graft the ethical concerns of trauma studies onto the lessons of ecocriticism, especially in the context of African literatures. This book will be of interest to scholars and graduate students working in the fields of African literatures, the environmental humanities, trauma studies, and postcolonial studies, as well as all those interested in narrative in the Anthropocene.

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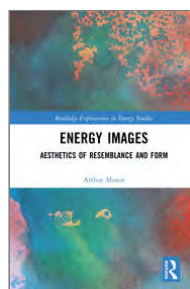
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Energy Images

Aesthetics of Resemblance and Form



Arthur Mason

Series: Routledge Explorations in Energy Studies

Energy Images: Aesthetics of Resemblance and Form explores how visual representations of future oil and gas resources shape energy policy, investment decisions, and public understanding.

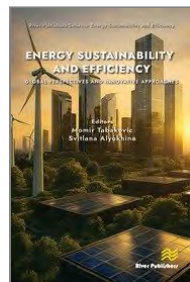
Routledge

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Energy Sustainability and Efficiency: Global Perspectives and Innovative Approaches



Edited by Momir Tabakovic, Svitlana Alyokhina

Series: River Publishers Series in Energy Sustainability and Efficiency

This book offers global insights on energy sustainability and efficiency, highlighting energy transition, climate neutrality, energy communities, and urban decarbonization. It explores digital innovation, automation, and community engagement for resilient, sustainable energy systems across social, urban, and environmental contexts. This is a comprehensive overview of the latest advancements and strategies for achieving a sustainable energy future. It offers a multidisciplinary perspective on energy sustainability, integrating research on community-driven energy transitions, digital innovation, automation, and urban climate adaptation.

River Publishers

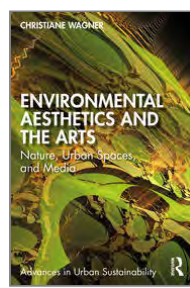
July 2026 : 238pp

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Environmental Aesthetics and the Arts

Nature, Urban Spaces, and Media



Christiane Wagner

Series: Advances in Urban Sustainability

Integrating architecture, art, and design, this book presents a multidisciplinary perspective on aesthetics to address contemporary issues related to nature, urban spaces, and media environments. Exploring how different environments, both virtual and physical, impact our aesthetic experiences in various social contexts, the book focuses in particular on the environmental aspect, which includes protecting natural resources, habitats, and ecosystems to ensure their long-term health and sustainability. This book will appeal to scholars, researchers, and upper-level students in aesthetics, philosophy, visual cultural studies, communication studies, sustainability, and media studies.

Routledge

August 2026 : 272pp

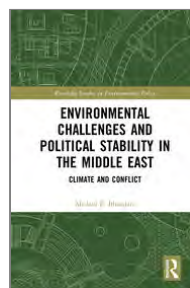
Pb: 978-1-041-26410-1 : £41.99

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Environmental Challenges and Political Stability in the Middle East

Climate and Conflict



Medani P. Bhandari Akamai University, U.S.A.

Series: Routledge Studies in Environmental Policy

Environmental Challenges and Political Stability in the Middle East explores how environmental degradation, climate change, and resource scarcity intersect with political instability and social unrest across one of the world's most vulnerable regions. Bridging environmental science, political analysis, and development studies, this comprehensive book offers a thorough and accessible perspective on the climate-conflict nexus. It will appeal to academics, policymakers, practitioners, and globally engaged readers interested in environmental governance, international relations, peace studies, and the future of the Middle East.

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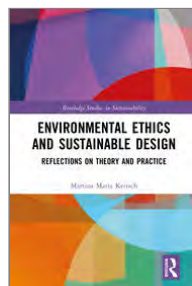
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Environmental Ethics and Sustainable Design

Reflections on Theory and Practice



Martina Maria Keitsch

Series: Routledge Studies in Sustainability

Through the introduction of BioDialectics, a conceptual approach intended to extend the ethical considerations of sustainable design, this book analyses how the field engages with and adapts ideas from environmental ethics. The book will be of interest to academics, researchers, and practitioners working at the intersection of ethics, environment, and sustainable design.

Routledge
August 2026 : 226pp
Hb: 978-1-032-46986-7 : £155

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Essential Concepts of Environmental Peacebuilding

An A-Z Guide



Edited by Carl Bruch, Rachel Weaver, Richard Matthew, Erika Weinthal, Larry Swatuk

Series: A-Z Guides for Environment and Sustainability

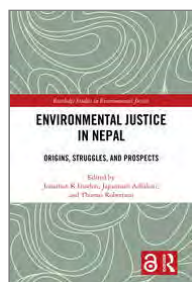
This book provides a comprehensive introduction to the essential concepts of environmental conflict and peacebuilding by compiling and explaining key terms in an easy-to-navigate A-Z format. This book fills a gap in the literature, by providing a more consistent understanding and approach to key aspects of environmental peacebuilding. The book begins with a thematic introduction to contextualize the topic, written by a team of world-leading scholars. The book then follows an A-Z format, with over 150 entries from experts in the field describing and explaining key concepts, and providing examples of how different terms are applied within this growing discipline.

Routledge
June 2026 : 442pp
Pb: 978-1-032-99431-4 : £39.99
Hb: 978-1-032-99439-0 : £145
eBook: 978-1-003-60414-3

* For full contents and more information, visit: www.routledge.com/9781032994314

Environmental Justice in Nepal

Origins, Struggles, and Prospects



Edited by Jonathan K London, Jagannath Adhikari, Thomas Robertson

Series: Routledge Studies in Environmental Justice

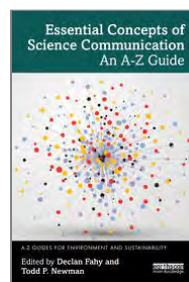
This edited volume provides a holistic compilation of the diverse range of emerging scholarship in critical environmental justice studies in Nepal. Centring contributions from Nepalese scholars and practitioners, the volume spans a wide range of topics including the origins of environmental justice in Nepal, land and agriculture, conservation, infrastructure and development, Indigenous peoples, climate justice, and health equity. The book will appeal to scholars, researchers, students, and activists in environmental justice, sustainable development, South Asian, and Himalayan studies.

Routledge
May 2026 : 298pp
Hb: 978-1-041-35155-9 : £155
eBook: 978-1-003-37117-5

* For full contents and more information, visit: www.routledge.com/9781041351559

Essential Concepts of Science Communication

An A-Z Guide



Edited by Declan Fahy, Todd P. Newman University of Wisconsin-Madison, USA

Series: A-Z Guides for Environment and Sustainability

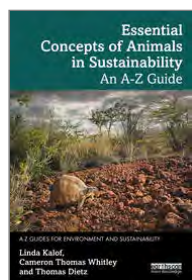
This A-Z guide provides readers with a comprehensive overview of fifty core concepts in the global field of science communication. It explains the origins and research foundations of each essential concept, analyses how they have been applied in different scholarly and professional contexts and demonstrates their use as guides to action.

Routledge
July 2026 : 260pp
Pb: 978-1-032-78540-0 : £41.99
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Essential Concepts of Animals in Sustainability

An A-Z Guide



Linda Kalof University of Windsor, Canada, **Cameron Thomas Whitley**, **Thomas Dietz**

Series: A-Z Guides for Environment and Sustainability

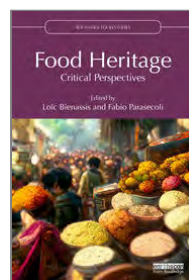
This book compiles, discusses, and explains 126 key concepts relating to animals in sustainability in an easy-to-navigate A-Z format. Entries address the important role individual animals and species play in ecosystem management and environmental well-being, as well as addressing negative impacts on the environment, such as the methane produced by cattle. This book will be of great interest to students and scholars of animal studies, zoology, conservation biology, environmental studies, ecosystem services, environmental humanities and sustainability.

Routledge
September 2026 : 238pp
Pb: 978-1-032-86566-9 : £41.99
Hb: 978-1-032-86568-3 : £155

* For full contents and more information, visit: www.routledge.com/9781032865669

Food Heritage

Critical Perspectives



Edited by Loïc Bienassis, Fabio Parasecoli

Series: Routledge Food Studies

This book presents a critical analysis of the concept of food heritage, through a dialogue between its academic definitions and the vaguer, more common-sense meaning of the term. By addressing the notion of heritage through the question of food and eating practices, this book allows us to question in a fresh way the very meaning of this concept, now so well established but still interpreted through a wide variety of perspectives. This volume will be of great interest to students and scholars from across food studies, heritage studies, cultural studies, tourism studies, and anthropology.

Routledge
August 2026 : 320pp
Pb: 978-1-032-83087-2 : £41.99
Hb: 978-1-032-83089-6 : £145

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Good Governance and Sustainable Development



Edited by **Maria Gavris , Jessica Savage**

Series: *Routledge Studies in Sustainable Development*

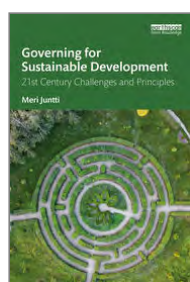
Addressing the big questions to advance the debate on good governance for sustainable development, this book asks: What is governance for sustainable development? What makes governance 'good'? And what are the factors that inhibit good governance? With contributions from experts in Development Studies, Economics, Management, Environmental Science, Politics, and Public Policy, this book will act as an insightful and valuable guide for academics, scholars, and students of Development Studies, Economics, Politics, Environmental Science, and Management, as well as policymakers and practitioners working in sustainable development.

Routledge
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Governing for Sustainable Development

21st Century Challenges and Principles



Meri Juntti

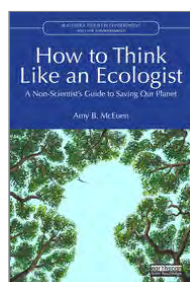
This textbook explores the meaning of good governance and sustainable development in the present-day context of a growing planetary crisis, socio-economic polarisation and politicisation of knowledge.

Routledge
August 2026 : 190pp
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How to Think Like an Ecologist

A Non-Scientist's Guide to Saving Our Planet



Amy B. McEuen

Series: *Routledge Studies in Conservation and the Environment*

How to Think Like an Ecologist offers a witty and engaging guide to the science behind restoring the planet and, by association, ourselves. Aimed at non-science students, this book demystifies the basic science of environmental global changes, from climate change to biodiversity loss, while tackling the natural constraints that shape our future. Filled with innovative ideas and real-world examples, this alternative textbook is a must-read for students in introductory environmental courses and those in other disciplines seeking to grasp the fundamental science behind our rapidly changing global environment.

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Hydrogen Law in the European Union and Europe



Edited by **Michael Kalis , Sirja-Leena Penttinen , Kim Talus**

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Hydrogen is increasingly seen as a key element of Europe's energy transition, central to both decarbonisation and energy security. This edited volume provides a comprehensive and systematic analysis of what can be called "Hydrogen Law" in the European Union and Europe, examining how law and governance are shaping the emergence of a hydrogen market.

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Increasing Participatory Engagement through Technology and Design

New Approaches for Participation



Edited by **Mari Suoheimo , Jonna Häkkinen , Ravi Mahamuni**

Series: *Design for Social Responsibility*

This broad-ranging edited collection highlights the role that technology can play in increasing community engagement in participatory design, now and in the future. Leading practitioners and researchers cover topics such as crowd-sourcing information gathering, visual and systems thinking, creativity tools, participatory budgeting and governance, online participation, and citizen engagement to bridge communities and government.

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Integrating Design in Governance and Management

Creative Approaches for the Future



Edited by **Andreas Metzner-Szigeth , Ingrid Kofler , Harald Pechlaner , Greta Erschbamer**

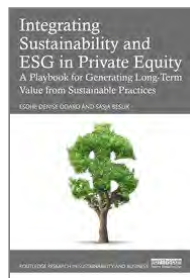
Exploring the integration of design into governance and management practices, this book provides clear and actionable insights into how design methodologies can enhance professional practices in these fields. With a strong emphasis on practical applications demonstrated through wide-ranging case studies, it is accessible and relevant to students, government professionals, and consultants. By presenting a framework for possible responses and future scenarios, it shows the transformative potential of design-based approaches for professionals in governance, management, and related fields, highlighting the importance of integrating design thinking to address future challenges effectively.

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Integrating Sustainability and ESG in Private Equity

A Playbook for Generating Long-Term Value from Sustainable Practices



Esohe Denise Odaro , Sasja Beslik

Series: Routledge Research in Sustainability and Business

This book reveals how ESG principles drive competitive advantage in private equity. Following Alex Morgan's journey from skeptic to advocate, it provides frameworks for implementing sustainability throughout the investment lifecycle: enhancing due diligence, improving operations, and maximizing exit value. Through portfolio company case studies, readers discover practical methodologies for value creation across environmental, social, and governance dimensions. Essential frameworks include materiality assessment, stakeholder engagement, regulatory compliance, and measurement systems.

Routledge
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Jewish Environmentalism in the Post-Secular Age

Earthly Spirituality



Hava Tirosh-Samuelson

Series: Routledge Environmental Humanities

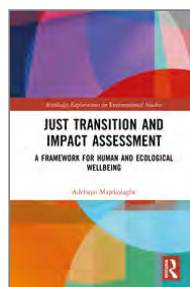
Presenting Jewish environmentalism as a case study of contemporary post-secularism, this book exemplifies the responses of world religions to the global ecological crisis and situates Jewish environmental spirituality historically, socially, theologically, and politically. This book will be of great interest to students and scholars of Jewish studies, religious studies, secularism/post-secularism studies, religion and ecology, and religion and science.

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Just Transition and Impact Assessment

A Framework for Human and Ecological Wellbeing



Adebayo Majekolagbe

Series: Routledge Explorations in Environmental Studies

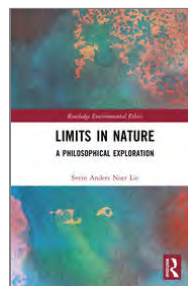
This volume reframes the narratives on just transition and explores the ways in which impact assessment modes can be deployed for just transition ends. From its recognition in the Paris Agreement to its incorporation in domestic transition laws and policies, just transition is essentially interpreted as jobs transition. In this book, Adebayo Majekolagbe shows that the traditional focus of the just transition narrative on jobs, its emphasis on distributive and procedural justice, and the failure to embed just transition into planning and decision making have resulted in unjust ends for social and ecological systems both locally and globally.

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Limits in Nature

A Philosophical Exploration



Svein Anders Noer Lie

Series: Routledge Environmental Ethics

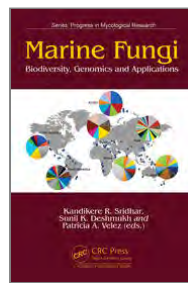
Adopting a fresh approach, this book explores our understanding of nature's limits and proposes a new perspective to reframe the relationship between these limits and human freedom. Where should we look to uncover the deeper roots of today's environmental disagreements? A common answer might be: the conflict between nature's limits and human freedom. This book is a must-read for environmental scholars seeking to deepen their understanding of the philosophical underpinnings of today's ecological challenges.

Routledge
August 2026 : 218pp
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Marine Fungi

Biodiversity, Genomics and Applications



Edited by **Kandikere Sridhar , Sunil Kumar Deshmukh**
GreenVenton Biotech Private Limited, India, **Patricia A. Velez**

Series: Progress in Mycological Research

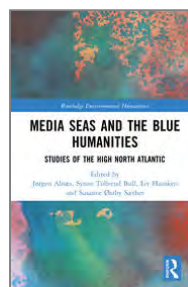
Reviews developments in marine fungi from the lens of diversity, geographical distribution, habitats, endophytic lifestyle, ecology, systematics, industrial, pigments, enzymes, biofuel, agricultural, nutritional, medical, health applications, bioremediation, bioactive metabolites, biotechnological potential, and the impact of climate change.

CRC Press
September 2026 : 396pp
Hb: 978-1-041-29214-2 : **£105**

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Media Seas and the Blue Humanities

Studies of the High North Atlantic



Edited by **Jørgen Alnæs , Synne Tollerud Bull , Liv Hausken , Susanne Østby Sæther**

Series: Routledge Environmental Humanities

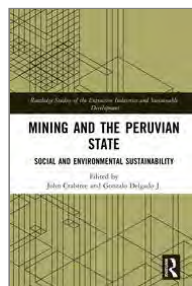
This book contributes to the emerging field of the blue humanities by developing a critical media perspective on the technical, social, cultural, and historical mediation of knowledge, perception, and experience of the oceans. With contributions from leading scholars from across a diverse range of fields, this volume focuses on the environmental challenges experienced in the North Atlantic Ocean. As an important addition to the blue humanities and environmental humanities, this interdisciplinary volume will appeal to scholars and students of media and communication studies, human geography, anthropology, environmental studies, cultural and technological history.

Routledge
May 2026 : 264pp
Hb: 978-1-032-76512-9 : **£155**
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Mining and the Peruvian State

Social and Environmental Sustainability



Edited by **John Crabtree**, **Gonzalo Delgado J.**

Series: *Routledge Studies of the Extractive Industries and Sustainable Development*

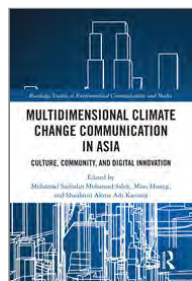
This book examines the social, environmental and political sustainability of Peru's mining industry as it seeks to garner the benefits of the energy transition between now and 2050. This book offers a deeper understanding of the structural challenges posed by modern industrial mining and identifying the public policies needed to address them. It will be of great interest to students and scholars of mining and the extractive industries, Latin American development and natural resource management more widely, as well as those involved in government and NGOs.

Routledge
May 2026 : 278pp
Hb: 978-1-041-25463-8 : £145
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Multidimensional Climate Change Communication in Asia

Culture, Community, and Digital Innovation



Edited by **Mohamad Saifudin Mohamad Saleh**, **Miao Huang** Post-doctor Researcher, the Journalism School of Renmin University of China, Beijing, **Shaidatul Akma Adi Kasuma**

Series: *Routledge Studies in Environmental Communication and Media*

This book explores the influence of religion, culture, community, and digital innovation as key dimensions of climate change communication in Asia.

Routledge
June 2026 : 270pp
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Nanoparticles for Pollution Management



Edited by **Preeti Thakur**, **P.B. Sharma**, **Atul Thakur**

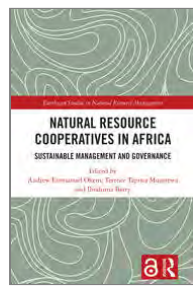
"Nanoparticles for Pollution Management" explores the potential of nanoparticles in environmental remediation, highlighting their unique properties and applications. The book encompasses a broad spectrum of chapters, including nanoparticles for air, soil and groundwater remediation, as well as their potential environmental and human health implications. It is a valuable resource for researchers, scientists, and engineers working in the field of environmental science, chemistry, materials science, and nanotechnology, interested in sustainable solutions for pollution management.

CRC Press
May 2026 : 418pp
Hb: 978-1-041-08760-1 : £105
eBook: 978-1-003-65516-9

* For full contents and more information, visit: www.routledge.com/9781041087601

Natural Resource Cooperatives in Africa

Sustainable Management and Governance



Edited by **Andrew Emmanuel Okem**, **Terence Tapiwa Muzorewa**, **Ibrahim Barry**

Series: *Earthscan Studies in Natural Resource Management*

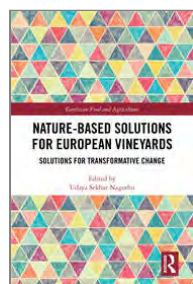
This book examines the role of cooperatives in the sustainable management and governance of natural resources, drawing on a range of case studies from across Africa. Drawing on detailed case studies from Tanzania, Zimbabwe, Nigeria and South Africa, chapters examine the roles played by cooperatives involved in the management and governance of water, energy, forests, fisheries and agricultural resources. This book will be of great interest to students and scholars of natural resource management, sustainable development, and African studies.

Routledge
May 2026 : 180pp
Hb: 978-1-041-12092-6 : £155
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Nature-Based Solutions for European Vineyards

Solutions for Transformative Change



Edited by **Udaya Sekhar Nagothu** Bioforsk, Norwegian Institute of Agricultural and Environmental Research, As, Norway

Series: *Earthscan Food and Agriculture*

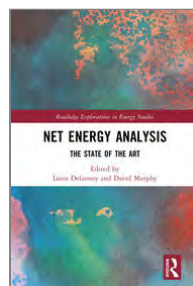
This transdisciplinary book explores the potential benefits and challenges of implementing nature-based solutions in vineyard landscapes across a range of European countries. This volume examines vineyard landscapes in a range of European countries, including Italy, Switzerland, Spain, France and Portugal, analysing the potential of sustainable nature-based solutions in improving ecosystem health, while prioritizing wine quality and social and economic gains. This book will be of great interest to students, scholars and professionals working on nature-based solutions, agriculture, viticulture and environmental management more broadly.

Routledge
June 2026 : 298pp
Hb: 978-1-041-20113-7 : £155
eBook: 978-1-003-71510-8

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Net Energy Analysis

The State of the Art



Edited by **Louis Delannoy**, **David J. Murphy**

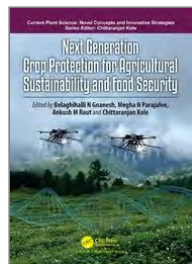
Series: *Routledge Explorations in Energy Studies*

This book offers a comprehensive synthesis of recent advances in Net Energy Analysis (NEA), bridging gaps in the literature, integrating insights from multiple disciplines, and providing practical tools for future research.

Routledge
July 2026 : 346pp
Hb: 978-1-032-98353-0 : £155

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Next Generation Crop Protection for Agricultural Sustainability and Food Security



Edited by **Belaghihalli N Gnanesh**, **Megha N Parajulee**,
Ankush M Raut, **Chittaranjan Kole**

Series: *Current Plant Science*

A compilation of the integrated approaches and strategies for sustainable crop protection and food security. The volume aims to educate readers, whether they are policymakers, researchers, or students, about the importance of adopting holistic approaches of crop protection to address the challenges facing agriculture and food security in today's world.

CRC Press
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Nourishing Scotland



Pete Ritchie

Series: *Earthscan Food and Agriculture*

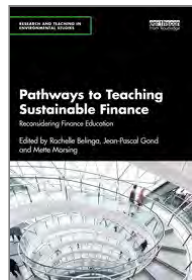
This book delves into Scotland's evolving food system, uncovering the challenges of change, tracing food policy progress since devolution in 1999, and envisioning bold strategies for the next twenty-five years. It is grounded in a right-to-food perspective, and describes both the necessity of, and the opportunity for, a repurposing of the food system from a focus on commodity production and trade to a focus on nutrition equity and environmental restoration. This book will be of great interest to students, scholars and policymakers interested in food and agricultural policy, as well as those interested in sustainable food systems, public health, and social policy more widely.

Routledge
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Pathways to Teaching Sustainable Finance

Reconsidering Finance Education



Edited by **Rachelle Belinga**, **Jean-Pascal Gond**, **Mette Morsing**

Series: *Research and Teaching in Environmental Studies*

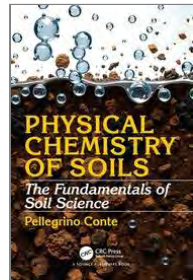
This book showcases the experiences and perspectives of instructors and researchers who are pioneering sustainable finance research and education.

Routledge
September 2026 : 372pp
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Physical Chemistry of Soils

The Fundamentals of Soil Science



Pellegrino Conte

Physical Chemistry of Soils provides a comprehensive introduction to the physicochemical principles that govern soil systems. It explains how forces, energy exchanges, and molecular interactions determine soil structure, reactivity, and environmental behavior. The book explores key topics such as surface charge, ion exchange, electrokinetic phenomena, colloidal stability, and the thermodynamics of water and solutes in soils. By combining conceptual clarity with quantitative rigor, it offers a unified framework that links microscopic processes to macroscopic soil functions.

CRC Press
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Plant-Inclusive Care Ethics

Insights from Bonsai, Tomato Plants, and Giant Sequoia Trees



Kate Brelje

Series: *Routledge Environmental Ethics*

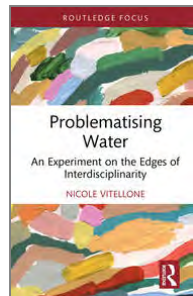
Examining anthropocentric assumptions and arguments in care ethics literature, this book argues that caring for plants represents a moral obligation and vital relationship between human carers and plant cared-for. Plant-Inclusive Care Ethics will be useful for students, instructors and practitioners in environmental ethics, plant humanities, critical plant studies, and plant-related artistic work.

Routledge
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Problematizing Water

An Experiment on the Edges of Interdisciplinarity



Nicole Vitellone

Series: *Routledge Explorations in Environmental Studies*

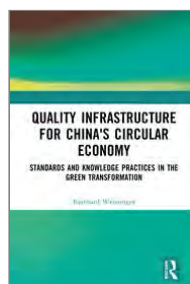
Problematizing Water is a manifestation of thinking with water across a range of disciplines including human geography, sociology, anthropology, science and technology studies, and ethnomethodology. In this book, Vitellone reveals the alliances between Foucault's concept of problematisation and a new methodological approach for water focused research, as seen through her study of London's #OneLess refill water fountain pilot, an intervention to reduce plastic bottled water. This book will be of value to science and technology scholars, social scientists, natural scientists, and academics interested in the environmental humanities.

Routledge
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Quality Infrastructure for China's Circular Economy

Standards and Knowledge Practices in the Green Transition



Reinhard Weissinger

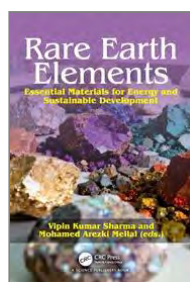
This book analyzes the evolution of circular economy in China focusing specifically on the role of quality infrastructure (QI) in this process.

Routledge
August 2026 : 330pp
Hb: 978-1-041-30552-1 : £155

* For full contents and more information, visit: www.routledge.com/9781041305521

Rare Earth Elements

Essential Materials for Energy and Sustainable Development



Edited by **Vipin Kumar Sharma** IMT Engineering College Meerut, India, **Mohamed Arezki Mellal** M'Hamed Bougara University, Algeria

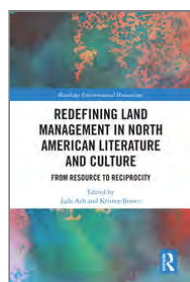
The book examines the role of rare earth elements in modern energy technologies and sustainable development. It covers their applications in renewable energy, electric vehicles, batteries, and energy efficiency systems. Topics include environmental impacts, resource distribution, recycling, and future innovations. Aimed at researchers, engineers, and students, it offers a comprehensive yet accessible overview of rare earths; significance in the global shift toward low-carbon and sustainable energy solutions.

CRC Press
May 2026 : 254pp
Hb: 978-1-041-10808-5 : £105
eBook: 978-1-003-68325-4

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Redefining Land Management in North American Literature and Culture

From Resource to Reciprocity



Edited by **Jada Ach**, **Kristen Brown**

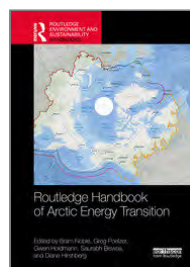
Series: Routledge Environmental Humanities

Exploring the ongoing histories of human-centered ecosystem management in North America, this book tracks the diverse ways in which human-environmental relations have been presented across different forms of media. The collection encourages a reimagining of what it means to manage environmental elements beyond the limits of utility, commodification, and control. In particular, the book highlights the potential in Indigenous ecological approaches to living with lands and waters. This book will be of value to a wide range of readers, including researchers and students in environmental humanities, ecocritical theory, history, Indigenous studies, environmental studies, and anthropology.

Routledge
June 2026 : 282pp
Hb: 978-1-032-94675-7 : £155
eBook: 978-1-003-58118-5

* For full contents and more information, visit: www.routledge.com/9781032946757

Routledge Handbook of Arctic Energy Transition



Edited by **Bram Noble**, **Greg Poelzer**, **Gwen Holdmann**, **Saurabh Biswas**, **Diane Hirschberg**

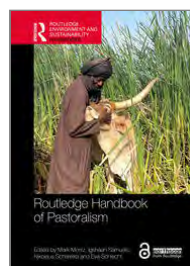
Series: Routledge Environment and Sustainability Handbooks

This Handbook approaches the multiplicity of perspectives, values, and tensions around energy transitions in the Arctic as occurring in a tightly coupled, yet diverse, socio-technical environment. It will be an essential resource to students and scholars of energy transitions, energy policy, Indigenous rights and justice, international geopolitics and the human development dimensions of climate change.

Routledge
July 2026 : 522pp
Hb: 978-1-032-78542-4 : £245
eBook: 978-1-003-48840-8

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Routledge Handbook of Pastoralism



Edited by **Mark Moritz**, **Igshaan Samuels**, **Nikolaus Schareika**, **Eva Schlecht**

Series: Routledge Environment and Sustainability Handbooks

This handbook provides a comprehensive and authoritative overview of pastoralism, combining major theoretical debates with an interdisciplinary and comparative perspective on pastoral systems across the world. The handbook's chapters are organized into eight parts that examine: the emergence of pastoralism; its biophysical foundations; the economics of pastoral production; adaptive strategies; social and political organization; new methodological and analytical approaches; development and policy perspectives; and possible futures for pastoral systems. This handbook is an indispensable resource on pastoralism for students, researchers, and professionals.

Routledge
May 2026 : 546pp
Hb: 978-1-032-78435-9 : £230
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Routledge Handbook of Sustainable Forestry



Edited by **Alark Saxena**, **Alder Keleman Saxena**, **Jeffrey Chow**, **Josep Maria Sierra Diaz**

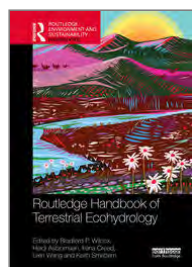
Series: Routledge Environment and Sustainability Handbooks

The Routledge Handbook of Sustainable Forestry offers a comprehensive, global exploration of current practices, foundational concepts, and emerging trends in sustainable forest management, while also reflecting on the critical role of sustainable forestry in promoting the well-being of both people and the planet. This handbook is an indispensable resource for students and researchers in sustainable forestry, forest management, and forest ecology, as well as those engaged in broader sustainable resource management. It will also prove invaluable to professionals involved in forest management and policy development.

Routledge
September 2026 : 644pp
Hb: 978-1-032-35679-2 : £230

* For full contents and more information, visit: www.routledge.com/9781032356792

Routledge Handbook of Terrestrial Ecohydrology



Edited by **Bradford P. Wilcox**, **Heidi Asbjornsen**, **Irena Creed**, **Lixin Wang**, **Keith Smettem**

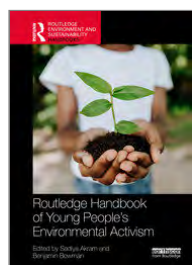
Series: *Routledge Environment and Sustainability Handbooks*

This handbook provides a comprehensive overview of terrestrial ecohydrology, a rapidly evolving discipline focusing on the interactions of biota and water. Understanding these interactions is especially important given the pace and scale of environmental change, with climate warming, deforestation, land-use change, groundwater depletion, urbanization, and other human activities are fundamentally reshaping how water is partitioned among evaporation, transpiration, interception, infiltration, storage, and runoff. The handbook is essential reading for students, scholars, practitioners, and policymakers working in the field of ecohydrology.

Routledge
July 2026 : 686pp
Hb: 978-1-032-46945-4 : £245

* For full contents and more information, visit: www.routledge.com/9781032469454

Routledge Handbook of Young People's Environmental Activism



Edited by **Sadiya Akram**, **Benjamin Bowman**

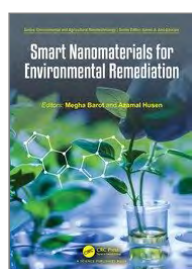
Series: *Routledge Environment and Sustainability Handbooks*

This Handbook addresses the new watershed moment in youth environmental activism: the collision of the historic and globally prominent youth-centred movements on the one hand, with established, consolidated power in opposition to environmental action on the other. The central goal of this Handbook is to explore the state of the research literature on young people's environmental activism, not just as a global network of movements involving young people, but as a global exchange of ideas, sentiments and solidarities.

Routledge
June 2026 : 624pp
Hb: 978-1-032-52960-8 : £230
eBook: 978-1-003-40943-4

* For full contents and more information, visit: www.routledge.com/9781032529608

Smart Nanomaterials for Environmental Remediation



Edited by **Megha Barot**, **Azamal Husen Wolaita Sodo** University, Ethiopia

Series: *Environmental and Agricultural Nanotechnology*

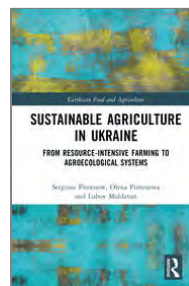
This book presents both foundational and advanced insights into smart nanomaterials and related nanomaterials for environmental remediation. The volume offers a comprehensive overview of the principles, recent advances, and applications of sustainable nanotechnologies for pollution mitigation, along with the associated challenges. Health and safety aspects are also discussed in the book in detail. By compiling recent developments in the use of smart nanomaterials for the remediation of air, water, and soil pollution, this book distinguishes itself as a timely and comprehensive resource in the field.

CRC Press
August 2026 : 310pp
Hb: 978-1-032-87766-2 : £140

* For full contents and more information, visit: www.routledge.com/9781032877662

Sustainable Agriculture in Ukraine

From Resource-Intensive Farming to Agroecological Systems



Sergiusz Pimenow, **Olena Pimenowa**, **Lubov Moldavan**

Series: *Earthscan Food and Agriculture*

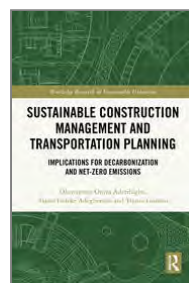
This book examines how Ukraine's agricultural system can move from resource-intensive production toward more sustainable, resilient, and agroecological pathways. It shows why this transition matters not only for Ukraine, but also for global food security. Combining agricultural economics, environmental governance, and resource management, the volume offers an integrated account of the forces reshaping Ukrainian agriculture. This book will appeal to scholars, students, policymakers, and practitioners in agricultural economics, environmental policy, sustainable development, rural studies, and food system governance.

Routledge
August 2026 : 316pp
Hb: 978-1-041-16596-5 : £155

* For full contents and more information, visit: www.routledge.com/9781041165965

Sustainable Construction Management and Transportation Planning

Implications for Decarbonization and Net-Zero Emissions



Oluwayemi-Oniya Aderibigbe, **Taiwo Fadeke Adegbenbo**, **Trynos Gumbo**

Series: *Routledge Research in Sustainable Urbanism*

Sustainable Construction Management and Transportation Planning offers a comprehensive analysis of the prospects and challenges of decarbonising the environment. This book will appeal to policy makers, academics, researchers, transport planners, urban planners, and urban/transport planning students looking to learn more about the appropriate smart technologies for sustainable transport planning in smart cities.

Routledge
May 2026 : 206pp
Hb: 978-1-032-87205-6 : £145
eBook: 978-1-003-53143-2

* For full contents and more information, visit: www.routledge.com/9781032872056

Sustainable Design in Fashion and Textiles

Concepts, Case Studies, and Practical Tools



Edited by **Yasir Nawab**, **Muzzamal Hussain**, **Ali Raza Shafqat**, **Shahid Rasul**

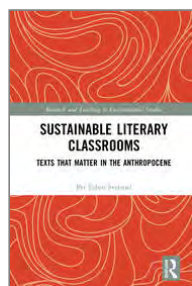
Addressing the urgent environmental issues resulting from conventional textile production, this book delivers essential knowledge and tools that will enable policymakers, industry professionals, and students to implement sustainable practices and reduce the environmental impact of these sectors globally. Designed as both a professional reference and an academic resource, this book catalyzes systemic transformation by equipping stakeholders with the knowledge and tools necessary to reduce environmental impact, enhance transparency, and build resilient circular business models.

Routledge
October 2026 : 280pp
Pb: 978-1-041-06961-4 : £37.99
Hb: 978-1-041-06964-5 : £155

* For full contents and more information, visit: www.routledge.com/9781041069614

Sustainable Literary Classrooms

Texts that Matter in the Anthropocene



Per Esben Svelstad

Series: Research and Teaching in Environmental Studies

This book explores how Education for Sustainability and the Environment (ESE) can form an integral part of the teaching of fiction, drama, and poetry with teenage and adult learners. Building on posthumanism, postcritique, and resonance theory, this book answers an important question: since the environment can no longer be regarded as a fixed backdrop for human action, how can literature help students live and thrive in the Anthropocene? Sustainable Literary Classrooms will provide student teachers and teachers of literature on all levels with theoretical motivations and pedagogical ideas for integrating ESE in the literary classroom.

Routledge

October 2026 : 216pp

Hb: 978-1-041-12195-4 : £155

* For full contents and more information, visit: www.routledge.com/9781041121954

Sustainable Well-being

Advancing Health through Psychology, Medicine, and Intelligent Technologies



Edited by J. Anitha Menon, Benita Veronica, Ben Milbourn, Gnana Sanga Mithra S

The International Conference on Innovation, Sustainability, and Applied Sciences (ICISAS 2024) stands as the flagship research conference organized by Curtin University Dubai. This prestigious multi-disciplinary conference is dedicated to advancing applied, specialized, and interdisciplinary fields.

Routledge

May 2026 : 332pp

Pb: 978-1-041-29632-4 : £58.99

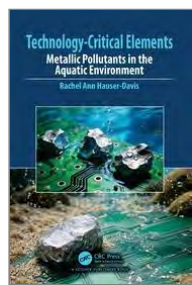
Hb: 978-1-041-29512-9 : £145

eBook: 978-1-003-77047-3

* For full contents and more information, visit: www.routledge.com/9781041296324

Technology-Critical Elements

Metallic Pollutants in the Aquatic Environment



Rachel Ann Hauser-Davis

This book provides a comprehensive synthesis of technology-critical elements (TCEs) as emerging metallic pollutants in aquatic environments. It examines rare earth elements, rubidium, and platinum-group metals, detailing their technological importance, extraction pathways, environmental release, and behavior in freshwater and marine systems. By integrating geochemical, ecotoxicological, and sustainability perspectives, the book highlights critical knowledge gaps, supports risk assessment, and underscores the urgent need for responsible resource management, improved regulation, long-term monitoring, and protection of aquatic ecosystems and human health.

CRC Press

July 2026 : 138pp

Hb: 978-1-032-53493-0 : £120

* For full contents and more information, visit: www.routledge.com/9781032534930

2ND EDITION

The Age of Sustainability

Just Transitions in a Complex World



Mark Swilling University of Stellenbosch, South Africa

Series: Routledge Studies in Sustainable Development

The world stands at a pivotal juncture, grappling with two opposing forces: the urgent need for accelerated sustainability transitions through collaboration and peacebuilding, and the rise of climate-denying authoritarianism alongside resource-driven geopolitical conflicts. This book confronts this critical choice, arguing that the survival of human civilisation hinges on embracing the sustainability transition rather than resisting it. Ultimately, this book offers no easy answers but provides essential insights for those committed to building a sustainable and equitable world. This is a book about hope—hope grounded in the transformative power of informed action.

Routledge

October 2026 : 376pp

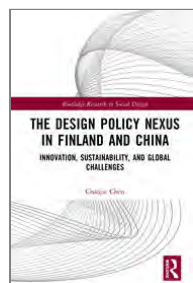
Pb: 978-1-041-03928-0 : £41.99

Hb: 978-1-041-03964-8 : £155

* For full contents and more information, visit: www.routledge.com/9781041039280

The Design Policy Nexus in Finland and China

Innovation, Sustainability, and Global Challenges



Chaojie Chen

Series: Routledge Research in Social Design

Comparing design policies in Finland and China, this book explores how their distinct cultural and technological contexts shape innovation, sustainable development, and social well-being. It highlights Finland's human-centric, decentralized model focused on cultural sustainability and social innovation, alongside China's centralized, technology-driven approach aimed at industrial growth and global competitiveness. With its comparative perspective and actionable insights, The Design Policy Nexus will be of interest to policymakers, academics, and practitioners seeking to understand how design policy can be leveraged to foster economic growth and address global challenges.

Routledge

July 2026 : 298pp

Hb: 978-1-041-07686-5 : £155

* For full contents and more information, visit: www.routledge.com/9781041076865

The Future of Food Policy in the UK

Recipe for Change



Honor May Eldridge

Series: Routledge Studies in Food, Society and the Environment

This book makes a compelling case for the urgent need to develop a new approach to food and farming—one that integrates the principles of food security, sovereignty, and stability. Tracing the journey from farm to fork, the chapters explore key topics such as climate resilience, genetic diversity, supply chains, food stability, and market competition. The book examines the implications of the 2025 UK Government Food Strategy for England and its potential to reshape the future of food governance. It is an essential resource for anyone seeking to better understand UK food policy and the pathways to achieving a secure, equitable, and sustainable food future.

Routledge

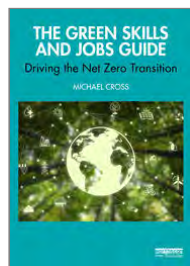
May 2026 : 118pp

Hb: 978-1-032-94829-4 : £55.99

* For full contents and more information, visit: www.routledge.com/9781032948294

The Green Skills and Jobs Guide

Driving the Net Zero Transition



Michael Cross

This book is a comprehensive guide to the greening of the economy, detailing the essential skills, jobs, and careers required to develop a thriving sustainable future. The transition towards net zero is creating a wave of new work requiring the redeployment and repurposing of skills and jobs to decarbonise and adapt the economy. Written in a highly accessible style, this book will be a key guide for professionals, policymakers, organisations, societies, and individuals looking for clear pathways for education and training, with an emphasis on upskilling and interdisciplinary approaches.

Routledge

September 2026 : 220pp

Pb: 978-1-041-13057-4 : **£37.99**

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The Human Right to Food

An Insider's Account



Rolf Künemann

Series: Routledge Studies in Food, Society and the Environment

Sharing insights from the author's forty years of activism, this book champions the right to food as a fundamental human right and offers a compelling exploration of its evolution and application. Tracing the emergence of the human right to food within civil society and among legal experts in the early 1980s, this book highlights its pivotal role in advancing economic, social, and cultural rights that had long been neglected within the UN system. This book is essential reading for activists, policymakers, students, and scholars across disciplines such as human rights, food and agriculture policy, social security, international relations, philosophy, and sustainability.

Routledge

July 2026 : 230pp

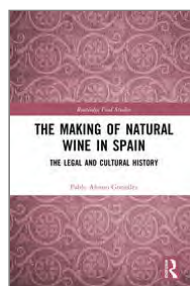
Pb: 978-1-041-12817-5 : **£41.99**

Hb: 978-1-041-12818-2 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041128175

The Making of Natural Wine in Spain

The Legal and Cultural History



Pablo Alonso González

Series: Routledge Food Studies

This book explains how "natural wine" was made and not discovered by Spanish lawmakers, chemists, merchants, and theologians, showing how Spain consolidated a legal construct that normalised specific technical interventions while preserving the label natural. The book will be of great interest to students and scholars of food and wine studies, legal and economic history, anthropology, science and technology studies and European agrarian history.

Routledge

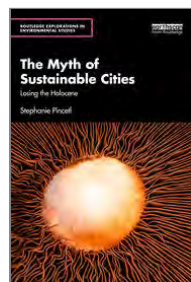
July 2026 : 192pp

Hb: 978-1-041-31222-2 : **£155**

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The Myth of Sustainable Cities

Losing the Holocene



Stephanie Pincetl

Series: Routledge Explorations in Environmental Studies

These foreboding times are producing an understandable sense of urgency, a desire to envision and enact alternative systems as soon as possible. This book is written for readers who wish not just to understand the roots of our current political and environmental dilemmas, but for those seeking a new path toward reconciling humans and the planet.]

Routledge

September 2026 : 218pp

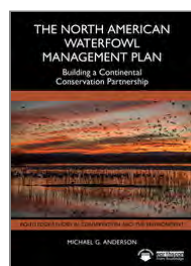
Pb: 978-1-041-23064-9 : **£41.99**

Hb: 978-1-041-22861-5 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041230649

The North American Waterfowl Management Plan

Building a Continental Conservation Partnership



Michael G. Anderson

Series: Routledge Studies in Conservation and the Environment

This book provides a compelling insider's account of The North American Waterfowl Management Plan (NAWMP), a groundbreaking initiative that has transformed avian conservation across the continent. Drawing on his experience as a founding member of the NAWMP science community, the author provides unparalleled insights into this remarkable conservation journey, honouring the visionaries who paved the way. It not only celebrates NAWMP's transformative impact but also inspires a new generation of large-scale, cooperative conservation initiatives. It is essential reading for conservation professionals, policymakers, natural resource students, and anyone passionate about protecting nature.

Routledge

June 2026 : 334pp

Pb: 978-1-041-22438-9 : **£38.99**

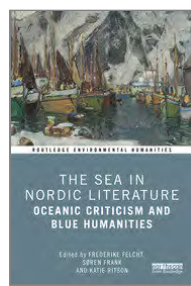
Hb: 978-1-041-22439-6 : **£155**

eBook: 978-1-003-73231-0

* For full contents and more information, visit: www.routledge.com/9781041224389

The Sea in Nordic Literature

Oceanic Criticism and Blue Humanities



Edited by Frederike Felcht, Søren Frank, Katie Ritson

Series: Routledge Environmental Humanities

The first collection to address the role of the oceanic in literary texts and traditions from across the Nordic region, this book explores applications of ecocriticism, postcolonial theory, new materialism, and gender studies at a time when interest in marine ecosystems and their vulnerabilities to anthropogenic climate change is generating new theoretical insights and interest across the humanities. With its broad historical and theoretical scope, The Sea in Nordic Literature is a valuable resource for scholars and students in blue humanities, Scandinavian and Nordic studies, and comparative literature.

Routledge

September 2026 : 318pp

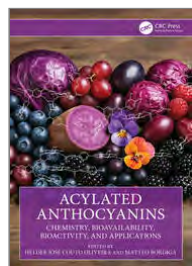
Pb: 978-1-041-08939-1 : **£41.99**

Hb: 978-1-041-08941-4 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041089391

Acylated Anthocyanins

Chemistry, Bioavailability, Bioactivity, and Applications



Edited by **Hélder José Couto Oliveira, Matteo Bordiga**
Universita del Piemonte Orientale, Novara, Italy

Anthocyanin esterified with one or more acid groups are known as acylated anthocyanins. Acylated anthocyanins exhibit higher stability and antioxidant activity compared with nonacylated ones and are of interest to the food and beverage industry. It is known that the structural differences among them will influence their specific roles and fates in the different applications anthocyanins may be used for. This book compiles and summarizes data regarding acylated anthocyanins knowledge, ranging from their physical and chemical particularities, their health effects, including bioaccessibility, bioavailability and bioactivity, and also their different technological applications.

CRC Press
May 2026 : 284pp
Hb: 978-1-032-84451-0 : **£145**
eBook: 978-1-003-51959-1

* For full contents and more information, visit: www.routledge.com/9781032844510

Advances in Sustainable Meat Technology

Engineering, Quality, and Safety



Edited by **Slim Smaoui, Angelos Vakalopoulos, Theodoros Varzakas** University of the Peloponnese, Greece

Series: Contemporary Food Engineering

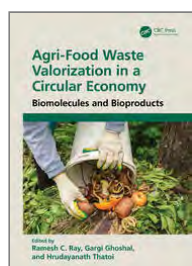
Advances in Sustainable Meat Technology: Engineering, Quality, and Safety explores the intersection of innovation and bioprocess technology in meat products and by-products, offering a comprehensive guide to the latest technological advancements that are transforming the landscape of meat technology.

CRC Press
October 2026 : 840pp
Pb: 978-1-041-17415-8 : **£110**
Hb: 978-1-041-17414-1 : **£205**

* For full contents and more information, visit: www.routledge.com/9781041174158

Agri-Food Waste Valorization in a Circular Economy

Biomolecules and Bioproducts



Edited by **Ramesh C. Ray** Central Tuber Crops Research Institute, India, **Gargi Ghoshal, Hrudayanath Thatoi** Director, Centre for Industrial Biotechnology Research, Odisha

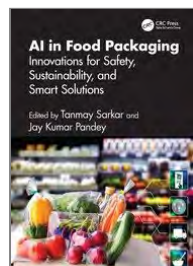
This book covers biomolecules and bioproduct synthesis from agricultural residues with a circular economy approach. It explores the benefits of adopting a sustainable approach, including reducing waste sent to landfills, decreasing reliance on other feedstocks, and potentially reducing pressure on resources used for food production. It also provides valuable insights into emerging trends and technologies for valorizing both agricultural and food waste. With a blend of technological insights and comprehensive coverage of the potential for agri-food waste valorization, this book will be suited for industry professionals and students seeking.

CRC Press
September 2026 : 296pp
Hb: 978-1-041-22342-9 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041223429

AI in Food Packaging

Innovations for Safety, Sustainability, and Smart Solutions



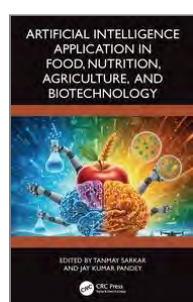
Edited by **Tanmay Sarkar, Jay Kumar Pandey**

This book explores the transformative impact of artificial intelligence on the food packaging industry. It describes cutting-edge technologies that enhance food safety, optimize sustainability, and enable smart packaging solutions. The book includes practical implementation strategies and discusses future trends.

CRC Press
November 2026 : 384pp
Hb: 978-1-041-24140-9 : **£190**

* For full contents and more information, visit: www.routledge.com/9781041241409

Artificial Intelligence Application in Food, Nutrition, Agriculture, and Biotechnology



Edited by **Tanmay Sarkar, Jay Kumar Pandey**

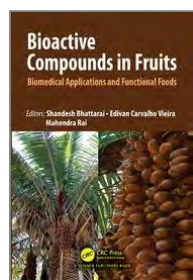
The book offers a comprehensive and interdisciplinary approach by integrating AI with food, nutrition, agriculture, and biotechnology. It covers both foundational concepts and practical applications, making it valuable for academics and professionals. It simplifies advanced technologies into straightforward explanations and practical examples, illustrating how AI technologies such as sensors, intelligent apps, and computer programs can assist farmers in cultivating more crops with less input, assist individuals in eating more nutritious food according to their individual health requirements, and assist researchers in creating improved seeds and environmental-friendly farming methods.

CRC Press
September 2026 : 328pp
Hb: 978-1-041-17060-0 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041170600

Bioactive Compounds in Fruits

Biomedical Applications and Functional Foods



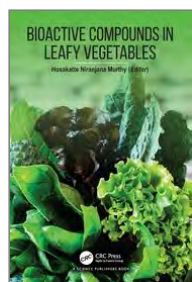
Edited by **Shandesh Bhattarai** Nepal Academy of Science and Technology, **Edivan Carvalho Vieira, Mahendra Rai** SGB Amravati University, Maharashtra, India

This book explores the rich world of fruit-derived bioactive compounds and their emerging role in health and medicine. From antioxidants to anti-inflammatory agents, it highlights how these natural compounds support disease prevention and promote wellness. Bridging biotechnology, nutrition, and natural product chemistry, the volume offers valuable insights into the development of functional foods. It also presents scientifically grounded insights and emphasizes the potential of fruits as valuable sources of bioactive compounds contributing to healthier dietary strategies and sustainable nutrition.

CRC Press
August 2026 : 334pp
Hb: 978-1-041-08544-7 : **£105**

* For full contents and more information, visit: www.routledge.com/9781041085447

Bioactive Compounds in Leafy Vegetables



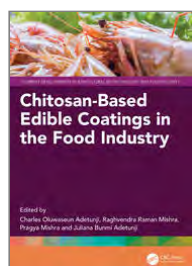
Edited by **Hosakatte Niranjana Murthy** Karnatak University, India

Leafy vegetables contain carbohydrates, proteins, fatty acids, and minerals. Additionally, they possess a high content of fiber and vitamins. Leafy vegetables also a source of specialized metabolites, including phenolics, flavonoids, terpenoids, alkaloids, and glucocinolates, which have very high nutraceutical values. Consequently, leafy vegetables are considered nutritious and healthy food to overcome various diseases. This book discusses the nutritional value, bioactive components, and biological activity of green leafy vegetables from around the world.

CRC Press
June 2026 : 482pp
Hb: 978-1-041-12489-4 : £105
eBook: 978-1-003-68783-2

* For full contents and more information, visit: www.routledge.com/9781041124894

Chitosan-Based Edible Coatings in the Food Industry



Edited by **Charles Oluwaseun Adetunji**, **Raghvendra Raman Mishra**, **Pragya Mishra**, **Juliana Bunmi Adetunji**

Series: Current Developments in Agricultural Biotechnology and Food Security

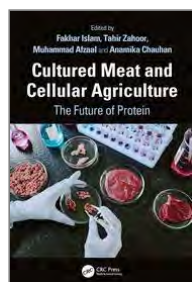
This reference book provides comprehensive coverage of the application of naturally derived chitosan for improved food quality and shelf life. It describes the application of the chitosan-based composite coating in combination with antimicrobial agents, such as essential oils, organic acid, metal ions, and inorganic nanomaterials.

CRC Press
September 2026 : 328pp
Hb: 978-1-032-40538-4 : £110

* For full contents and more information, visit: www.routledge.com/9781032405384

Cultured Meat and Cellular Agriculture

The Future of Protein



Edited by **Fakhar Islam**, **Tahir Zahoor**, **Muhammad Afzaal**, **Anamika Chauhan**

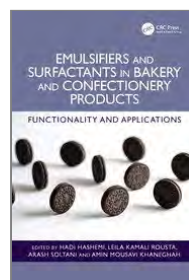
Cultured meat and cellular agriculture offer the promise of sustainable solutions to address the growing demand for protein while mitigating the environmental impact of conventional animal agriculture. This book explores the emerging field of cellular agriculture. It delves into the scientific and biotechnological innovations that enable the cultivation of meat, seafood, and other protein sources from animal cells in laboratory settings, rather than relying on traditional livestock farming. It also addresses the challenges and opportunities associated with scaling up production and integrating these technologies into the global food supply chain.

CRC Press
August 2026 : 328pp
Hb: 978-1-032-87268-1 : £170

* For full contents and more information, visit: www.routledge.com/9781032872681

Emulsifiers and Surfactants in Bakery and Confectionery Products

Functionality and Applications



Edited by **Hadi Hashemi**, **Leila Kamali Roust**, **Arash Soltani**, **Amin Mousavi Khaneghah**

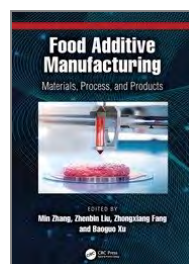
There is no comprehensive book on using emulsifiers in bakery, confectionery, and chocolate products in the food industry. This book enables engineers to apply appropriate strategies and achieve the desired properties in bakery, confectionery, and chocolate products through emulsifier and surfactant applications.

CRC Press
September 2026 : 200pp
Hb: 978-1-041-09956-7 : £180

* For full contents and more information, visit: www.routledge.com/9781041099567

Food Additive Manufacturing

Materials, Process, and Products



Edited by **Min Zhang** Jiangnan University, Wuxi, People's Republic of China, **Zhenbin Liu**, **Zhongxiang Fang** Curtin University, Bentley, Perth, Australia, **Baoguo Xu**

This book provides up-to-date, comprehensive, and novel information about 3D food printing, featuring both research and industry perspectives. It discusses the fundamentals of food additive manufacturing, including material characteristics, formulations, slicing/modelling, and precise/efficient printing. It also explains different food additive manufacturing processes, including pre-treatment, post-treatment, and intelligent detection during the printing process. With highly detailed assessments of industry technologies and capabilities, this book will suit any professional seeking to advance their understanding of 3D printing processes and their application to the food industry.

CRC Press
September 2026 : 568pp
Hb: 978-1-032-61589-9 : £200

* For full contents and more information, visit: www.routledge.com/9781032615899

Food Packaging 4.0

Harnessing Innovations in Digital, Physical, and Biological Sciences for Sustainable Solutions



Edited by **Abdo Hassoun**

Industry 4.0 brought smart technologies such as artificial intelligence (AI), cloud connectivity, and real-time data analytics to the world of industry and manufacturing. This book presents a detailed exploration of how Industry 4.0 technologies are revolutionizing the food packaging industry.

CRC Press
November 2026 : 296pp
Hb: 978-1-032-96617-5 : £180

* For full contents and more information, visit: www.routledge.com/9781032966175

Food Quality Assurance

The Engineering Approach



Edited by Slim Smaoui, Tanmay Sarkar, Amin Mousavi Khaneghah

Series: Contemporary Food Engineering

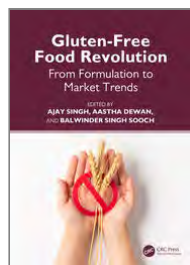
This book focuses on ensuring the highest standards of food quality and safety by bridging the gap between food science and food engineering. Beginning with a foundational understanding of food quality assurance, it goes on to explore the key principles that drive this critical field. Through detailed discussions, it covers risk assessment and management strategies, highlighting the role of engineering controls in preventing contamination and ensuring product safety. The technical engineering insights offered make it ideal for industry professionals seeking to advance their understanding of how to ensure food quality standards through practical solutions

CRC Press
June 2026 : 434pp
Hb: 978-1-032-93771-7 : £195
eBook: 978-1-003-56605-2

* For full contents and more information, visit: www.routledge.com/9781032937717

Gluten-Free Food Revolution

From Formulation to Market Trends



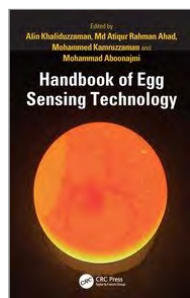
Edited by Ajay Singh Mata Gujri College, Aastha Dewan, Balwinder Singh Sooch

As more individuals seek gluten-free alternatives for a number of reasons ranging from celiac to lifestyle choices, this book presents aspects surrounding the development of gluten-free products. Offering a comprehensive reference guide, it discusses the world of gluten-free technology and dives into related legal, marketing, and health-related aspects. With a balance of technological knowledge and market assessments, this book is suited for industry professionals seeking to stay at the forefront of the next food revolution.

CRC Press
July 2026 : 410pp
Hb: 978-1-032-85716-9 : £195

* For full contents and more information, visit: www.routledge.com/9781032857169

Handbook of Egg Sensing Technology



Edited by Alin Khaliduzzaman, Md Atiqur Rahman Ahad, Mohammed Kamruzzaman, Mohammad Aboonajmi

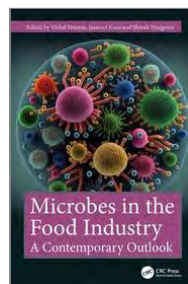
Non-destructive sensing technology (such as optical sensing and computer vision) together data analytics (machine learning and Artificial Intelligence) are tools both the hatching egg and table egg industry can employ to maximize productivity, efficiency, and quality. From this book, readers will get applied information about the latest sensing, computer vision technology and data analytics tools customized for table and hatching eggs industry. It describes such available non-destructive sensing techniques such as optical sensors, sound sensors, spectroscopy, and imaging and image processing techniques with appropriate machine learning and artificial intelligence integration.

CRC Press
October 2026 : 232pp
Hb: 978-1-032-65686-1 : £140

* For full contents and more information, visit: www.routledge.com/9781032656861

Microbes in the Food Industry

A Contemporary Outlook



Edited by Vishal Sharma, Jasmeet Kour, Shivali Panjgotra Panjab University, Chandigarh, India

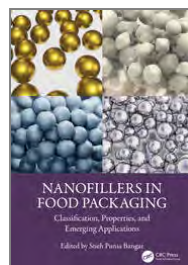
This book explains the potential of using microbes in a guided manner to refine food security, standards, and production efficiency. It reviews the cultivation of microbes under control conditions, including pH, temperature, and oxygen levels and their use in various food processes, as well as the production of bioactive compounds and probiotics.

CRC Press
September 2026 : 288pp
Hb: 978-1-041-02518-4 : £170

* For full contents and more information, visit: www.routledge.com/9781041025184

Nanofillers in Food Packaging

Classification, Properties, and Emerging Applications



Edited by Sneh Punia Bangar

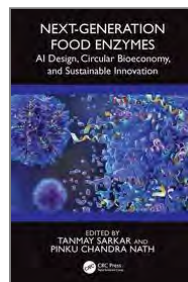
Nanofillers in Food Packaging explores how nanotechnology is revolutionizing packaging materials, enhancing strength, sustainability, and functionality. Twenty-one chapters are dedicated to specific materials, including carbon nanotubes, graphene, nanocellulose, silver, and montmorillonite. The book covers nearly all the categories of nanomaterials used in packaging.

CRC Press
October 2026 : 416pp
Hb: 978-1-041-14413-7 : £205

* For full contents and more information, visit: www.routledge.com/9781041144137

Next-Generation Food Enzymes

AI Design, Circular Bioeconomy, and Sustainable Innovation



Edited by Tanmay Sarkar, Pinku Chandra Nath Dept. of Applied Biology, Univ. of Sci and Tech, Meghalaya

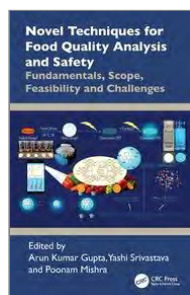
This book explores advanced enzyme technologies driven by AI to enhance food processing efficiency, promote sustainability, and support a circular bioeconomy through eco-friendly biocatalytic innovations. It promotes sustainable innovation by reducing resource dependency and greenhouse gas emissions associated with traditional food manufacturing.

CRC Press
November 2026 : 336pp
Hb: 978-1-041-29601-0 : £160

* For full contents and more information, visit: www.routledge.com/9781041296010

Novel Techniques for Food Quality Analysis and Safety

Fundamentals, Scope, Feasibility and Challenges



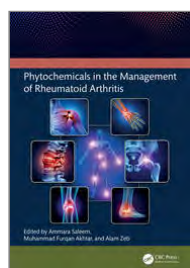
Edited by **Arun Kumar Gupta, Yashi Srivastava, Poonam Mishra**

Novel Techniques for Food Quality Analysis and Safety: Fundamentals, Scope, Feasibility and Challenges, is the need of the current hour that reflects the growing demand to shift from conventional analytical approaches to emerging and rapid techniques for ensuring food quality and safety.

CRC Press
October 2026 : 360pp
Hb: 978-1-032-77352-0 : £115

* For full contents and more information, visit: www.routledge.com/9781032773520

Phytochemicals in the Management of Rheumatoid Arthritis



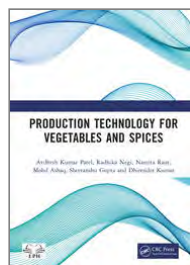
Edited by **Ammara Saleem, Muhammad Furqan Akhtar, Alam Zeb**

Rheumatoid arthritis (RA) is a chronic inflammatory disease that primarily affects joints and bones. Disease modifying anti-rheumatic drugs, biologics and NSAIDs are mostly acclaimed for symptomatic relief but these may have adverse outcomes. Extensive research has been conducted to find alternate and safe treatment options for RA. Phytochemicals in the Management of Rheumatoid Arthritis examines advanced knowledge about pathogenesis, diagnosis, and conventional treatment of RA, application of phytochemicals in the management and prophylaxis of RA.

CRC Press
July 2026 : 288pp
Hb: 978-1-032-86086-2 : £195

* For full contents and more information, visit: www.routledge.com/9781032860862

Production Technology for Vegetables and Spices



Avdesh Kumar Patel, Radhika Negi, Namita Raut, Mohd Ashaq, Sheetanshu Gupta, Dharendra Kumar

This book addresses vegetable and spice production advancements through comprehensive analysis of cultivation technology and nutritional significance. The study covers production methods, classification systems, and management practices crucial for understanding modern horticultural techniques and sustainable crop production for food security and agricultural development. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
May 2026 : 284pp
Hb: 978-1-041-33122-3 : £115
eBook: 978-1-003-79093-8

* For full contents and more information, visit: www.routledge.com/9781041331223

Pulse Proteins

Food Product Formulation



Edited by **Naseer Ahmed** SKUAST Jammu, India, **Sajad Ahmad Sofi, Mohd Aaqib Sheikh**

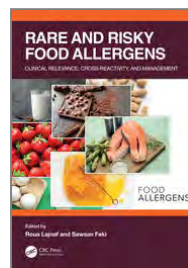
Pulse proteins are reshaping the future of food. Once regarded simply as macronutrients, they are recognised as dynamic components that define flavour, texture, functionality and nutritional value. Pulse Proteins: Food Product Formulation follows the lifecycle of pulse proteins in the food industry, from botanical sources through to extraction and isolation, targeted modification and rigorous characterisation, to their food applications. It showcases techniques and practices used to obtain high-quality pulse protein fractions, and examines the real-world processing hurdles and innovation opportunities inherent in deploying pulses as credible alternatives to animal proteins.

CRC Press
September 2026 : 384pp
Hb: 978-1-032-87271-1 : £170

* For full contents and more information, visit: www.routledge.com/9781032872711

Rare and Risky Food Allergens

Clinical Relevance, Cross-reactivity, and Management



Edited by **Roua Lajnaf, Sawsan Feki**

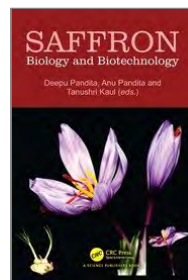
Depending on national regulations, rare food allergens are not regarded as major food allergens. Consequently, there is a notable lack of information devoted to rare allergens, despite the significant health risks they pose to sensitized individuals, including potentially fatal anaphylactic reactions. Rare and Risky Food Allergens: Clinical Relevance, Cross-reactivity and Management addresses that gap by providing an authoritative overview of uncommon food allergens such as fruits, legumes, rice, mammalian milk and meat, honey, wheat beer, chocolate, coffee, edible insects, algae, spices, green tea, and selected food additives.

CRC Press
June 2026 : 350pp
Pb: 978-1-032-99163-4 : £89.99
Hb: 978-1-032-97517-7 : £205
eBook: 978-1-003-60265-1

* For full contents and more information, visit: www.routledge.com/9781032991634

Saffron

Biology and Biotechnology



Edited by **Deepu Pandita, Anu Pandita, Tanushri Kaul** ICGB, New Delhi, India

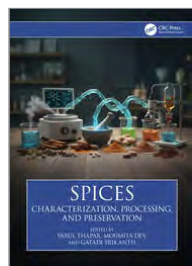
Crocus sativus L., commonly known as saffron. This volume provides a comprehensive overview of various aspects of saffron cultivation and ecology such as genetics and cytogenetics, the role of saffron's bioactive compounds in nutrition and medicine, economic importance, beneficial effects, applications, safety evaluations, and limitations associated with saffron. Advanced subjects including transcriptomics, post-transcriptomics, metabolomics, computational biology, molecular markers, genome editing, microbiome and endophytic interactions, micropropagation, phytochemistry, and the uses of saffron as a medicinal and aromatic plant, are also covered.

CRC Press
May 2026 : 238pp
Hb: 978-1-032-51744-5 : £125
eBook: 978-1-003-40376-0

* For full contents and more information, visit: www.routledge.com/9781032517445

Spices

Characterization, Processing, and Preservation



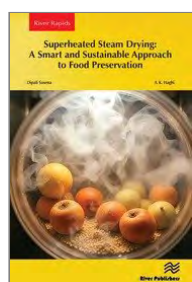
Edited by **Parul Thapar, Moumita Dev, Gatadi Srikanth**

Spices are whole plants or parts that play a vital role in food industry. They are not only used as additives in food processing but also contain bioactive components to extend the shelf-life of foods and offer medical applications. This book gives a broad but concise overview of various aspects in spice technology. It covers different types of spices that can be used in food industry, in pharmaceuticals, and in the culinary arts. For food technologists and product developers it addresses value addition, preservation methods, and storage. The book reviews detecting spice adulteration, regulations during processing, and future perspectives of spice industry.

CRC Press
June 2026 : 220pp
Hb: 978-1-041-07723-7 : £170

* For full contents and more information, visit: www.routledge.com/9781041077237

Superheated Steam Drying: A Smart and Sustainable Approach to Food Preservation



Edited by **Dipali Saxena, A. K. Haghi**

Series: River Publishers Series in Power and Energy Systems

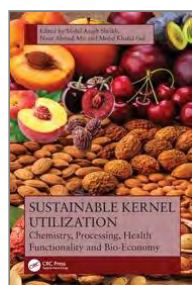
Superheated steam (SHS) drying has emerged as a transformative technique in food processing and fulfills the need for technologies that reduce environmental impact while preserving the quality, safety, and nutritional value of food. Superheated steam drying is oxygen-free, energy efficient, minimizes oxidative degradation and enhances product quality. This book is a comprehensive exploration of SHS drying technology, highlighting its scientific principles, engineering components, and broad applications across food and biological materials. It bridges the gap between theory and practice.

River Publishers
May 2026 : 68pp
Pb: 978-8-743-81018-6 : £70.99
eBook: 978-8-743-81019-3

* For full contents and more information, visit: www.routledge.com/9788743810186

Sustainable Kernel Utilization

Chemistry, Processing, Health Functionality, and Bio-Economy



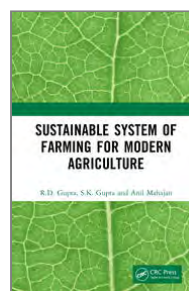
Edited by **Mohd Aaqib Sheikh, Nisar Ahmad Mir, Mohd Khalid Gul**

Prunus fruits are categorized as drupes or stone fruits. During prunus fruit processing, a significant quantity of pits is produced, then discarded, leading to various environmental issues. This book explores the sustainability of nutrient-dense prunus kernels and offers practical insights, case studies, and expert perspectives. Sustainable Kernel Utilization offers a roadmap for sustainable and innovative approaches utilized in prunus kernels stewardship into valuable products. Readers will discover strategies to enhance the economic potential of Prunus kernels while minimizing their environmental impact.

CRC Press
August 2026 : 370pp
Hb: 978-1-032-95116-4 : £170

* For full contents and more information, visit: www.routledge.com/9781032951164

Sustainable System of Farming for Modern Agriculture



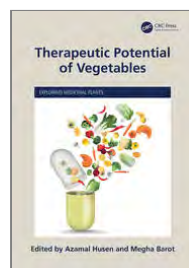
R.D. Gupta, S.K. Gupta, Anil Mahajan

This book examines concepts and practices of sustainable agriculture with focus on soil tillage, water management, and watershed development. It addresses organic farming and integrated nutrient management including bio-fertilizers and vermicompost. Chapters explore agroforestry systems, cover crops, and indigenous knowledge in modern agriculture. The volume covers wasteland management, jhum cultivation alternatives, micro-nutrient importance, and extension approaches for sustainable agricultural production. This title has been co-published with NIPA. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

CRC Press
August 2026 : 508pp
Hb: 978-1-041-35310-2 : £205

* For full contents and more information, visit: www.routledge.com/9781041353102

Therapeutic Potential of Vegetables



Edited by **Azamal Husen** Wolaita Sodo University, Ethiopia, **Megha Barot**

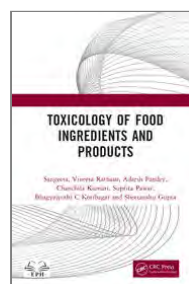
Series: Exploring Medicinal Plants

Vegetables nourish, heal, and protect, a truth recognized for centuries and now reinforced by modern scientific discovery. Therapeutic Potential of Vegetables reveals the remarkable bioactive power hidden within everyday vegetables and explores their role as natural allies in disease prevention, management, and holistic well-being.

CRC Press
August 2026 : 344pp
Hb: 978-1-032-99301-0 : £115

* For full contents and more information, visit: www.routledge.com/9781032993010

Toxicology of Food Ingredients and Products



Sangeeta, Vineeta Rathaur, Adarsh Pandey, Chanchila Kumari, Suprita Pawar, Bhagyajyothi C Kotibagar, Sheetanshu Gupta

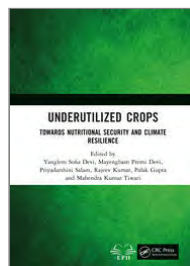
This book examines food toxicology advancements through comprehensive analysis of safety assessment principles and regulatory frameworks. The study covers food additives evaluation, contaminants analysis, and nutraceutical safety crucial for understanding modern food safety management and protecting consumer health through evidence-based toxicological evaluation methods. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
May 2026 : 288pp
Hb: 978-1-041-33123-0 : £115
eBook: 978-1-003-79095-2

* For full contents and more information, visit: www.routledge.com/9781041331230

Underutilized Crops

Towards Nutritional Security and Climate Resilience



Edited by **Yanglem Sofia Devi , Mayengbam Premi Devi , Priyadarshini Salam , Rajeev Kumar , Palak Gupta , Mahendra Kumar Tiwari**

This book addresses underutilized crops development through comprehensive analysis of sustainable agriculture practices and biodiversity conservation. The study covers nutritional benefits, economic potential, and climate resilience crucial for understanding modern agricultural challenges and enhancing food security through indigenous crop varieties and traditional knowledge systems. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press

May 2026 : 506pp

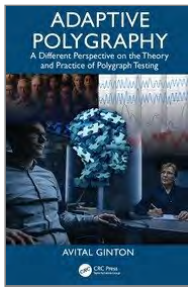
Hb: 978-1-041-33126-1 : **£205**

eBook: 978-1-003-79096-9

* For full contents and more information, visit: www.routledge.com/9781041331261

Adaptive Polygraphy

A Different Perspective on the Theory and Practice of Polygraph Testing



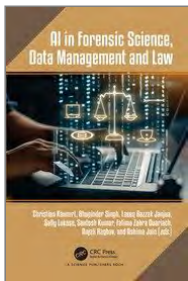
Avital Ginton

As we move deeper into the 21st century, this book intends to advance the practice and science of polygraphy by offering a different perspective. Rather than dismissing individual and situational variability as irrelevant "noise" to be controlled or ignored, it argues that such variability should be addressed through an adaptive approach to polygraph testing. Inspired in part by the growing influence of personal medicine—where interventions are tailored to the individual—this book proposes a flexible, case-sensitive framework responsive to each examinee's unique psychological and situational context.

CRC Press
November 2026 : 352pp
Hb: 978-1-041-10009-6 : **£64.99**

* For full contents and more information, visit: www.routledge.com/9781041100096

AI in Forensic Science, Data Management and Law



Edited by **Christian Kaunert, Bhupinder Singh, Laeeq Razzak Janjua, Sally Lukose, Santosh Kumar, Fatima Zahra Ouariach, Anjali Raghav, Ashima Jain**

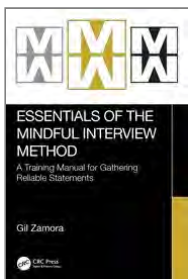
This edited book titled as "AI in Forensic Science, Data Management and Law" provides an in-depth examination of forensic applications as they relate to artificial intelligence and the field itself, from user interaction to crime scene processing. This unique collection explores a broad integration of the many new technologies and software-based applications currently facilitating both research in forensic science as well as court-related processes from policing through to sentencing.

CRC Press
June 2026 : 238pp
Hb: 978-1-041-10000-3 : **£105**
eBook: 978-1-003-67138-1

* For full contents and more information, visit: www.routledge.com/9781041100003

Essentials of the Mindful Interview Method

A Training Manual for Gathering Reliable Statements



Gil Zamora

Essentials of the Mindful Interview Method instructs interview practitioners in gathering authentic reliable information from their subjects in order to understand an event that occurred, or otherwise help identify a culprit. By sharing a more mindful approach for conducting these interviews, this book is a vital guide for interview practitioners associated with criminal justice, law enforcement, corrections, probation, and criminal investigators in gathering information related to an investigation, whether they are trying to identify a suspect or determine the cause of an event of importance.

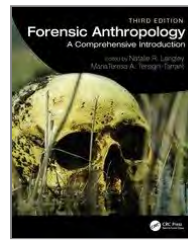
CRC Press
August 2026 : 192pp
Pb: 978-1-032-95133-1 : **£37.99**
Hb: 978-1-032-95132-4 : **£155**

* For full contents and more information, visit: www.routledge.com/9781032951331

3RD EDITION

Forensic Anthropology

A Comprehensive Introduction



Edited by **Natalie R. Langley Mayo Clinic, USA, MariaTeresa A. Tersigni-Tarrant**

The Third Edition of Forensic Anthropology: A Comprehensive Introduction provides a competency-based, learner-centered approach to the modern landscape of forensic anthropology. This edition serves as an indispensable resource for students at all levels—from undergraduate to PhD—and provides a robust reference for practitioners and instructors.

CRC Press
October 2026 : 380pp
Hb: 978-1-032-78289-8 : **£64.99**

* For full contents and more information, visit: www.routledge.com/9781032782898

Forensic Biotechnology

The Basics and Beyond



Edited by **Ritesh Shukla Ahmedabad University, India, Kamayani Vajpayee, Hira Dash**

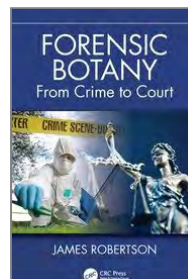
Forensic Biotechnology: The Basics and Beyond provides a comprehensive exploration of biotechnology's transformative role in modern forensic science. Enhanced with real-world case studies and practical examples, the book serves as an educational resource and professional reference guide, of vital importance to forensic scientists, attorneys, researchers, and students exploring the impact of biotechnology on justice and criminal investigations.

CRC Press
August 2026 : 360pp
Hb: 978-1-032-75500-7 : **£62.99**

* For full contents and more information, visit: www.routledge.com/9781032755007

Forensic Botany

From Crime Scene to Court



James Robertson

Forensic Botany: From Crime Scene to Court outlines a history of the discipline and field to provide current forensic operational context, real-world applications to cases, and how we arrived at this point. The book will assist investigators and crime scene examiners in recognising the potential for forensic botanical evidence. It outlines a framework, for forensic professionals of varying levels of expertise to effectively manage botanical evidence and serves as an invaluable guide for those botany professionals undertaking forensic roles as subject matter experts.

CRC Press
September 2026 : 336pp
Hb: 978-1-032-31185-2 : **£64.99**

* For full contents and more information, visit: www.routledge.com/9781032311852

2ND EDITION

Forensic Medicolegal Injury and Death Investigation



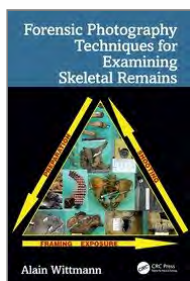
Mary H. Dudley, M.D. Chief Medical Examiner, Jackson County, Missouri, USA

Forensic Medicolegal Injury and Death 2nd edition provides an introduction to forensic science and coverage of injury patterns, natural disease, suicidal deaths, accidental trauma, child injury and fatalities, elder deaths, domestic violence, and mass fatality. It is an invaluable reference for anyone who has direct contact with death, crime, and the medicolegal system, including nurses, physicians, attorneys, death investigators, forensic pathologists, and police detectives.

CRC Press
October 2026 : 312pp
Hb: 978-1-032-88596-4 : **£52.99**

* For full contents and more information, visit: www.routledge.com/9781032885964

Forensic Photography Techniques for Examining Skeletal Remains



Alain Wittmann

Based on thirty years of the author's expertise in the field of forensic photography, this book offers invaluable skills to successfully take good-quality photographs. Forensic Photography Techniques for Examining Skeletal Remains will be valuable to forensic photographers, medical professionals, and anyone working with human remains who needs to create accurate photographic documentation that can withstand legal scrutiny and effectively communicate findings to courts and investigators.

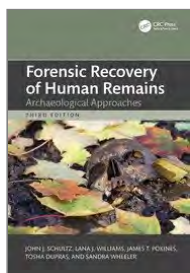
CRC Press
October 2026 : 224pp
Hb: 978-1-041-29276-0 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041292760

3RD EDITION

Forensic Recovery of Human Remains

Archaeological Approaches



John J. Schultz University of Central Florida, Orlando, USA, **Lana J. Williams** University of Central Florida, Orlando, USA, **James T. Pokines**, **Tosha L. Dupras** University of Central Florida, Orlando, USA, **Sandra M. Wheeler** University of Central Florida, Orlando, USA

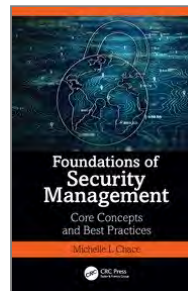
Forensic Recovery of Human Remains: Archaeological Approaches, Third Edition provides a comprehensive and updated guide to the search, recovery, documentation, and excavation of human remains in forensic contexts. It serves as an essential resource for undergraduates, graduate students, law enforcement and death scene personnel, forensic anthropology practitioners, and forensic archaeologists.

CRC Press
July 2026 : 536pp
Hb: 978-1-138-70672-9 : **£64.99**

* For full contents and more information, visit: www.routledge.com/9781138706729

Foundations of Security Management

Core Concepts and Best Practices



Michelle L. Chace

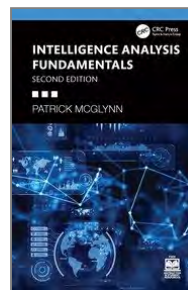
Foundations of Security Management: Core Concepts and Best Practices is a comprehensive, forward-looking textbook that redefines how security professionals understand, design, and implement protection strategies in a rapidly changing world. It emphasizes ethical leadership, resilience planning, and systems thinking, empowering readers to protect assets, people, and operations while shaping the future of the security profession with competence, integrity, and innovation.

CRC Press
July 2026 : 222pp
Hb: 978-1-041-27193-2 : **£49.99**

* For full contents and more information, visit: www.routledge.com/9781041271932

2ND EDITION

Intelligence Analysis Fundamentals



Patrick McGlynn

This fully revised and expanded second edition of Intelligence Analysis Fundamentals equips both aspiring and veteran analysts with the enduring principles and cutting-edge practices required to turn fragmented data into actionable foresight. Whether you are preparing for a career in the intelligence community, teaching the next generation of analysts, or seeking to sharpen your professional edge, this book delivers the foundational knowledge and practical wisdom required to anticipate, understand, and outthink tomorrow's adversaries.

CRC Press
July 2026 : 518pp
Hb: 978-1-032-91174-8 : **£59.99**

* For full contents and more information, visit: www.routledge.com/9781032911748

Security Mechanisms and Techno-Politics in the United States



Alp Cenk Arslan

The book examines how the United States has constructed its national security framework through techno-political foundations, examining the evolving relationship between technology and security in the context of emerging technologies like artificial intelligence, cybersecurity, and blockchain. Coverage provides a comprehensive theoretical framework for understanding techno-politics while using the U.S. as a primary case study to demonstrate how technological advancements reshape global power dynamics, sovereignty, and governance structures.

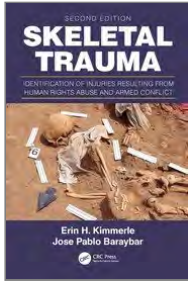
Routledge
August 2026 : 320pp
Hb: 978-1-041-26930-4 : **£52.99**

* For full contents and more information, visit: www.routledge.com/9781041269304

2ND EDITION

Skeletal Trauma

Identification of Injuries Resulting from Human Rights Abuse and Armed Conflict



Erin H. Kimmerle University of South Florida, Tampa, USA, **Jose Pablo Baraybar**

This second edition of *Skeletal Trauma: Forensic Anthropology and Legal Medicine in Human Rights Investigations* delves into the identification and analysis of skeletal injuries, focusing on their role in uncovering the cause and manner of death in cases of homicide, human rights violations, and armed conflicts. The book serves as a vital resource for investigators and professionals working in forensic science, anthropology, and legal medicine, as well as students who wish to deepen their understanding of the field.

CRC Press

October 2026 : 456pp

Hb: 978-1-466-57179-2 : £70.32

* For full contents and more information, visit: www.routledge.com/9781466571792

The Protector's Edge

Leadership Through Strategy and Action



Charles Randolph, **Jonathan Wackrow**, **Fred Burton**

This book examines how leadership in protection has evolved in an era of converged risk, where physical, digital, reputational, and narrative threats intersect. Written by three recognized leaders in the protection profession, this book combines decades of experience to deliver practical insights and strategic vision. It challenges experienced protectors, security leaders, intelligence professionals, and risk managers to think beyond the current mission and invest in developing the next generation of protective leaders.

CRC Press

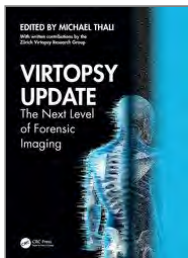
July 2026 : 278pp

Hb: 978-1-041-13623-1 : £36.99

* For full contents and more information, visit: www.routledge.com/9781041136231

Virtopsy Update

The Next Level of Forensic Imaging



Edited by **Michael Thali**

Virtopsy Update: The Next Level of Forensic Imaging provides the latest developments, applications, and emerging research topics in forensic imaging. The contributing author team's combined expertise ensures that this book stands as a definitive, forward-looking resource for practitioners, educators, and researchers seeking to navigate the next era of forensic imaging.

CRC Press

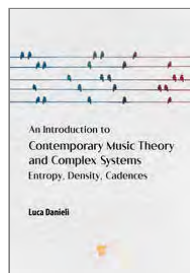
July 2026 : 490pp

Hb: 978-1-032-53858-7 : £115

* For full contents and more information, visit: www.routledge.com/9781032538587

An Introduction to Contemporary Music Theory and Complex Systems

Entropy, Density, Cadences



Luca Danieli

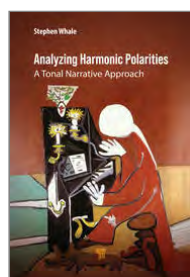
This book provides a theoretical foundation for music created since the mid-20th century. While contemporary composition has extensively adopted noise, inharmonicity, and spatialization as primary structural materials, analytical frameworks to account for their formal function (beyond mere timbre description) have been lacking.

Jenny Stanford Publishing
July 2026 : 200pp
Hb: 978-9-815-35212-2 : **£53.99**

* For full contents and more information, visit: www.routledge.com/9789815352122

Analyzing Harmonic Polarities

A Tonal Narrative Approach



Stephen Whale

This book advocates an alternative tonal narrative approach, which uses a framework of polarities in dynamic interaction and interdependence to elucidate the life forces animating tonal compositions. Drawing on the writings of Arnold Schoenberg, Donald Francis Tovey, Charles Rosen, and others, the approach identifies three sets of polarities—centrifugal/centripetal, sharp/flat, and spatial/temporal—that interact in works by composers such as Mozart, Beethoven, and Schubert. The approach suggests the methods by which the reader may delve into these polarities and thereby deeper into the meaning of masterworks.

Jenny Stanford Publishing
August 2026 : 424pp
Hb: 978-9-815-12998-4 : **£116**

* For full contents and more information, visit: www.routledge.com/9789815129984

Art Conservation

Vibrations and Shock



W. (Bill) Wei

This second book in the Art Conservation series was therefore written to provide readers with a solid introduction to the basic concepts and terminology used in engineering for dealing with problems with vibrations and shock. Like the first book in the series, it is presented in clear, accessible language for readers without a technical background. The goal is to help them systematically analyze risks due to vibrations and shock through experience and testing, understand how vibration and shock monitoring works, and find simple and cost-effective mitigation strategies.

Jenny Stanford Publishing
June 2026 : 222pp
Hb: 978-9-815-35206-1 : **£116**
eBook: 978-1-003-79179-9

* For full contents and more information, visit: www.routledge.com/9789815352061

Cellulose Nanomaterials

Science and Technology



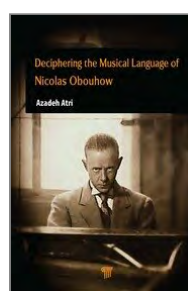
Toyoko Imae, Akira Isogai, Masaki Ujihara

This book provides a comprehensive overview of CNs, covering their history, chemical structures, morphologies, characteristics, and applications. CNs are expected to be used in food and consumer products as well as medical, luminescent, electronic, and electrical materials. The book serves as a comprehensive resource for university students, academic researchers, industry professionals, and engineers, as well as for anyone interested in advancing research and developing practical applications of CNs.

Jenny Stanford Publishing
June 2026 : 364pp
Hb: 978-9-815-35207-8 : **£193**
eBook: 978-1-003-79071-6

* For full contents and more information, visit: www.routledge.com/9789815352078

Deciphering the Musical Language of Nicolas Obouhow



Azadeh Atri

Drawing from a wide range of primary sources (in particular the Obouhow Archive at the Bibliothèque Nationale de France) and contemporary newspapers and journals, this book firstly demonstrates how Obouhow's idiosyncratic ideas were formed and influenced by his spiritual beliefs and significant historical events such as the Russian Revolution and the First World War. Secondly, by examining his Parisian circle and important relationships, the author explores how Obouhow's views were also in accord with the esoteric beliefs held by many others and how these views were part of a broader worldwide search for man's spiritual destiny in the interwar period and beyond.

Jenny Stanford Publishing
June 2026 : 730pp
Hb: 978-9-815-35205-4 : **£76.99**
eBook: 978-1-003-77541-6

* For full contents and more information, visit: www.routledge.com/9789815352054

Environmentalism in Healthcare

Caring for Tomorrow Ecologically



Edited by **Jacqueline A. Stagner, David S.-K. Ting**

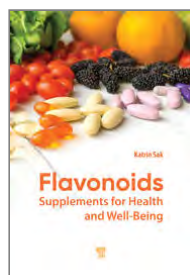
Hippocrates advocated, "Make a habit of two things: to help; or at least to do no harm." This book draws together international experts from the fields of healthcare, engineering, architecture, sociology, policy, and others to disclose the latest insights into forging viable means to care for an aging society ecologically. It focuses on the challenges and areas where remedies can be most feasibly implemented to mitigate the current shortfalls. Some adjustments in the way we currently operate can substantially furnish a healthier tomorrow.

Jenny Stanford Publishing
June 2026 : 404pp
Hb: 978-9-815-12995-3 : **£139**
eBook: 978-1-003-74869-4

* For full contents and more information, visit: www.routledge.com/9789815129953

Flavonoids

Supplements for Health and Well-Being



Katrin Sak

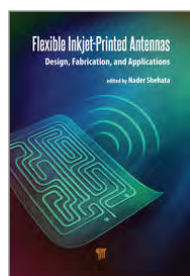
Flavonoids are some of the most abundant and most studied bioactive components of plants with a wide range of therapeutic properties in humans. In recent years, public interest in the use of these compounds as supplements has rapidly increased worldwide. This popular science book is focused on the 15 most promising flavonoids, their physicochemical properties, discovery history, dietary sources, metabolism, and therapeutic activities.

Jenny Stanford Publishing
August 2026 : 296pp
Hb: 978-9-815-35218-4 : £37.99

* For full contents and more information, visit: www.routledge.com/9789815352184

Flexible Inkjet-Printed Antennas

Design, Fabrication, and Applications



Nader Shehata

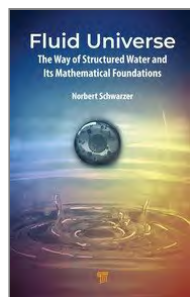
This textbook presents the basic knowledge of printed inkjet antenna on flexible substrates, including fabrication techniques, substrates used, most important characterizations, and different applications such as wireless sensor networks, wearable electronics, and smart textiles. It provides professionals and graduate students an optimum literature survey of the basic knowledge beyond the flexible printed antennas and circuits in general.

Jenny Stanford Publishing
June 2026 : 154pp
Hb: 978-9-814-96887-4 : £139

* For full contents and more information, visit: www.routledge.com/9789814968874

Fluid Universe

The Way of Structured Water and its Mathematical Foundations



Norbert Schwarzer

This book provides a comprehensive and current perspective on cancer research. It covers cancer biology through seven well-laid-out sections. Section I describes normal cell division, cellular homeostasis, and malignant cell transformation. Genetics, cancer epigenetics, cell cycle checkpoint, and growth-regulatory gene expression are covered in Section II. Section III discusses carcinogens, which cause cancer. Section IV describes molecular changes in cancer genes and signaling pathways, which are also employed to develop precise cancer diagnostics and treatments.

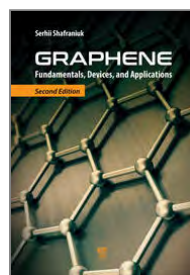
Jenny Stanford Publishing
June 2026 : 450pp
Hb: 978-9-815-35215-3 : £385

* For full contents and more information, visit: www.routledge.com/9789815352153

2ND EDITION

Graphene

Fundamentals, Devices, and Applications



Serhii Shafraniuk Northwestern University, Evanston, Illinois, USA

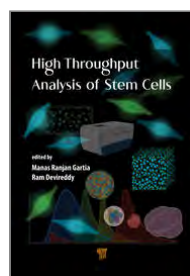
This book stems from the author's research experience and collaborations with scientists at tertiary institutions. It emphasizes practical applications driven by graphene's unique characteristics. Fundamental concepts are reinforced through end-of-chapter problems, supported by a separate solutions manual. The book is intended for a broad audience, including graduate students, postdoctoral fellows, experienced researchers, and industrial engineers.

Jenny Stanford Publishing
August 2026 : 752pp
Hb: 978-9-815-35211-5 : £193

* For full contents and more information, visit: www.routledge.com/9789815352115

High-Throughput Imaging Methods

Cells and Tissues



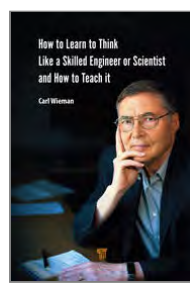
Edited by **Manas Ranjan Gartia, Ram Devireddy**

This book provides a unified resource on emerging label-free and high-throughput techniques, which are crucial for next-gen diagnostics, drug development, and tissue modeling. It bridges the gap between traditional assays and modern, real-time, non-invasive analyses that are critical for precision medicine.

Jenny Stanford Publishing
July 2026 : 402pp
Hb: 978-9-815-35208-5 : £154

* For full contents and more information, visit: www.routledge.com/9789815352085

How to Learn to Think like a Skilled Engineer or Scientist and How to Teach It



Carl Wieman

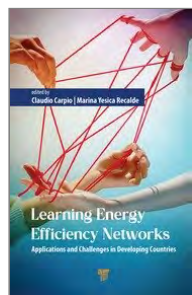
This book presents a radical approach for better teaching that is firmly grounded in research on the nature and development of expertise in science and engineering. It is based on the author's decades of experience in both teaching and research. The book argues for changing the focus of post-secondary education from the accumulation of knowledge to equipping learners to become better decision makers and problem solvers and then provides research-based principles for how to teach to achieve this outcome, including what is necessary to develop expertise and the nature of technical expertise.

Jenny Stanford Publishing
June 2026 : 198pp
Hb: 978-9-815-35219-1 : £37.99

* For full contents and more information, visit: www.routledge.com/9789815352191

Learning Energy Efficiency Networks

Applications and Challenges in Developing Countries



Edited by **Claudio Carpio, Marina Yesica Recalde**

This book discusses the experience with LEENs for EMSs in the industrial and service sectors in Latin America, with a focus on Mexico, Argentina, Brazil, Ecuador, El Salvador, Colombia, and Nicaragua. It highlights the relevance and role of enabling conditions, the role of key stakeholders, the main contribution of LEENs for the promotion of energy efficiency, and the key challenges. The lessons learned in these Latin American countries can be of great interest to other developing countries, particularly for the development of public policies that facilitate their promotion and implementation in the socioeconomic sectors involved.

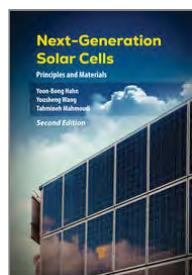
Jenny Stanford Publishing
June 2026 : 228pp
Hb: 978-9-814-96882-9 : **£116**
eBook: 978-1-003-77468-6

* For full contents and more information, visit: www.routledge.com/9789814968829

2ND EDITION

Next-Generation Solar Cells

Principles and Materials (Second Edition)



Yoon-Bong Hahn, Yousheng Wang, Tahmineh Mahmoudi

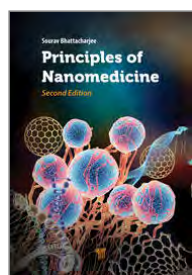
Building a sustainable energy system is one of the great challenges of our time, which has prompted both academia and industry to seek alternative energy and renewable energy solutions. Recently, advanced materials and technologies for next-generation solar cells have been exploited to develop economically viable, high-performance solar cells. This book addresses the principles and materials for the development of next-generation solar cells for a sustainable global society. This book targets advanced undergraduate- and graduate-level students, researchers, and everyone with an interest in next-generation solar cells.

Jenny Stanford Publishing
August 2026 : 420pp
Hb: 978-9-815-35217-7 : **£193**

* For full contents and more information, visit: www.routledge.com/9789815352177

2ND EDITION

Principles of Nanomedicine



Edited by **Sourav Bhattacharjee**

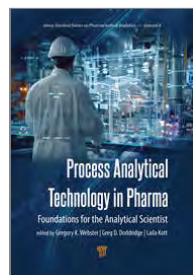
This book assembles the various facets of nanomedicine and discusses the key issues, including physicochemical properties that enhance the appeal of nanomedicine. Since the publication of the first edition in 2019, the field of nanomedicine has continued to evolve at a rapid pace. This updated edition captures some of the new developments in the field. The book is an excellent resource for physicians, PhDs, postdocs, and general readers involved in nanomedicine research to learn and understand the scope and complexity of the subject.

Jenny Stanford Publishing
September 2026 : 700pp
Hb: 978-9-815-35216-0 : **£139**

* For full contents and more information, visit: www.routledge.com/9789815352160

Process Analytical Technology in Pharma

Foundations for the Analytical Scientist



Edited by **Gregory K. Webster, Greg D. Doddridge, Laila Kott**

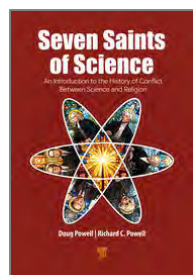
The advancement and application of process analytical technology (PAT) in pharmaceutical manufacturing represents a complex task, requiring an understanding of both historical developments and modern technological methods. This book provides a comprehensive overview of the current use of various analytical tools and methods within the industry and how they can be applied to PAT. It covers topics such as sampling innovation, statistical process control, and the utilization of chemometrics, all pivotal for maintaining and improving product quality.

Jenny Stanford Publishing
August 2026 : 778pp
Hb: 978-9-815-35227-6 : **£193**

* For full contents and more information, visit: www.routledge.com/9789815352276

Seven Saints of Science

An Introduction to the History of Conflict



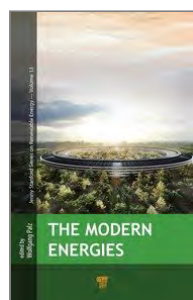
Richard Powell, Doug Powell

This book traces the history of the development of science and religion as pillars of our society and why there is perceived conflict between them. It covers the development of religion in the non-scientific era before the development of science during the Age of Enlightenment, Industrial Revolution, Victorian Era, Age of the New Physics, World War II, and the High Tech Era. The lives of famous scientists with strong beliefs in God are used as examples in each period.

Jenny Stanford Publishing
August 2026 : 208pp
Hb: 978-9-815-35224-5 : **£37.99**

* For full contents and more information, visit: www.routledge.com/9789815352245

The Modern Energies



Edited by **Wolfgang Palz**

Series: Jenny Stanford Series on Renewable Energy

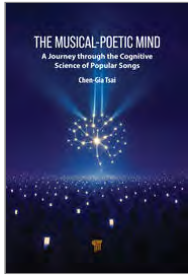
This book provides an overview of the global development of renewable energy from its beginnings in the mid-1950s all the way to its leadership today. The objective views of experts presented with the global well-being in mind are of general interest, highlight the benefits of renewable energy, and give evidence of the lies and biased and distorted views of the defenders of the old conventional energy, which had its day. The book explains how, thanks to renewable energy, the low-income populations in the developing nations can at last get access to affordable energy. It demonstrates how the world has now understood the benefits provided by our friendly and inexhaustible sun power.

Jenny Stanford Publishing
June 2026 : 310pp
Hb: 978-9-815-35202-3 : **£19.99**
eBook: 978-1-003-79730-2

* For full contents and more information, visit: www.routledge.com/9789815352023

The Musical-Poetic Mind

A Journey Through the Cognitive Science of Popular Songs



Chen-Gia Tsai

This book compiles and details the evolutionary parallels between human and animal song cultures, the neural pathways that distinguish song from speech, and the cognitive and physiological effects of musical features like syncopation, groove, and structural transitions. The use of real-world songs as stimuli, departing from simplified lab-based approaches, allows for a more ecologically valid investigation of musical experience.

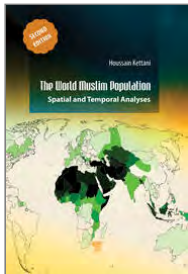
Jenny Stanford Publishing
July 2026 : 218pp
Hb: 978-9-815-35214-6 : £37.99

* For full contents and more information, visit: www.routledge.com/9789815352146

2ND EDITION

The World Muslim Population (Second Edition)

Spatial and Temporal Analyses



Houssain Kettani

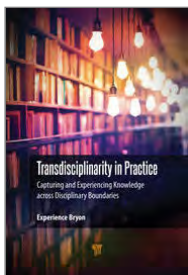
The birth of Islam over 14 centuries ago was a monumental event in human history with an everlasting effect on humanity. This book presents a reliable estimate of the world Muslim population since the inception of Islam at the start of the 7th century to the end of the 21st century. In the book, the world is divided into five continents, each is divided into non-overlapping regions, and these in turn are divided into current countries. The book is also a reference for any study that deals with Muslim populations, including Islamic financing, halal food industry, Islamic tourism and marketing, immigration, and political and human rights.

Jenny Stanford Publishing
June 2026 : 1010pp
Hb: 978-9-815-35209-2 : £193
eBook: 978-1-003-78624-5

* For full contents and more information, visit: www.routledge.com/9789815352092

Transdisciplinarity in Practice

Capturing and Experiencing Knowledge across Disciplinary Boundaries



Experience Bryon

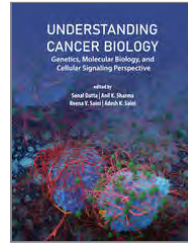
This book critically examines how knowledge is produced, experienced, and captured across disciplinary boundaries. It offers a practice-based framework for transdisciplinary research that integrates embodied, performative, empirical, and conceptual methodologies. The book engages with two key traditions—the Nicosian and Zürich approaches—before drawing on philosophy, cognitive science, performance, and systems thinking to develop a dynamic practice of knowledging: a way of doing and experiencing knowledge that resists disciplinary closure. Tools such as the active aesthetic and Integrative Performance Practice support this rethinking of how knowledge operates in action.

Jenny Stanford Publishing
August 2026 : 288pp
Hb: 978-9-815-35213-9 : £76.99

* For full contents and more information, visit: www.routledge.com/9789815352139

Understanding Cancer Biology

Genetics, Molecular Biology, and Cellular Signaling Pathways



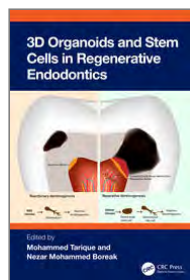
Edited by **Sonal Datta , Anil K. Sharma , Reena V. Saini , Adesh K. Saini**

This book provides a comprehensive and current perspective on cancer research. It covers cancer biology through seven well-laid-out sections. Section I describes normal cell division, cellular homeostasis, and malignant cell transformation. Genetics, cancer epigenetics, cell cycle checkpoint, and growth-regulatory gene expression are covered in Section II. Section III discusses carcinogens, which cause cancer. Section IV describes molecular changes in cancer genes and signaling pathways, which are also employed to develop precise cancer diagnostics and treatments.

Jenny Stanford Publishing
August 2026 : 740pp
Hb: 978-9-815-35203-0 : £385

* For full contents and more information, visit: www.routledge.com/9789815352030

3D Organoids and Stem Cells in Regenerative Endodontics



Mohammed Tarique , Nezar Mohammed Boreak

This book provides an overview of the latest advancements in the use of 3D organoids and stem cells for regenerative endodontics. It begins with an introduction to the foundational techniques for 3D organoid culture and explores cutting-edge developments in 3D bioprinting specifically tailored for dental applications.

CRC Press
August 2026 : 216pp
Hb: 978-1-032-96458-4 : **£89.99**

* For full contents and more information, visit: www.routledge.com/9781032964584

Advances and Applications in Biotechnology: Volume 4

Molecular Disease Diagnosis in Animals



Edited by **Arti Gupta , Ali Asghar Rastegari** Falavarjan Branch, Islamic Azad University, Isfahan

Series: Prospect of Animal Biotechnology and Future Developments

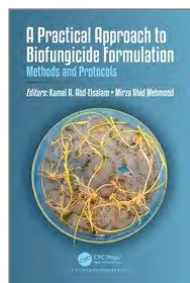
The volume concludes with a forward-looking discussion of CRISPR-Cas technology for pathogen detection in animals, a frontier that epitomizes the convergence of molecular biology and biotechnology in creating rapid, precise, and adaptable diagnostic platforms. Bringing together contributions from leading researchers across disciplines and geographies, this book is an essential resource for scientists, veterinarians, and students seeking to understand and harness the power of molecular diagnostics and intelligent systems in advancing animal and human health.

CRC Press
November 2026 : 272pp
Hb: 978-1-032-60526-5 : **£115**

* For full contents and more information, visit: www.routledge.com/9781032605265

A Practical Approach to Biofungicide Formulation

Methods and Protocols



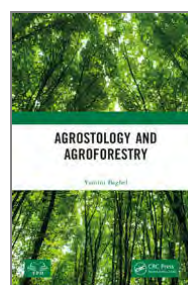
Edited by **Kamel Ahmed Abd-Elsalam** Plant Pathology Research Institute, Agricultural Research Center (ARC), Egypt, **Mirza Abid Mehmood**

'A Practical Approach to Biofungicide Formulation: Methods and Protocols' is a book that provides a comprehensive guide to the development of biofungicides. Biofungicides are biological products used to control fungal diseases in plants, and their popularity has been increasing in recent years due to their environmentally friendly nature and low toxicity. The book covers selection and screening of biofungicidal agents, culture maintenance, and development of stable and effective formulations. Formulation of biofungicides using *Trichoderma*, *Pseudomonas*, and *Streptomyces*, their scale up production, and delivery methods in sustainable disease management are also explained.

CRC Press
May 2026 : 360pp
Hb: 978-1-032-98225-0 : **£140**
eBook: 978-1-003-60302-3

* For full contents and more information, visit: www.routledge.com/9781032982250

Agrostology and Agroforestry



Yamini Baghel

This book addresses agrostology and agroforestry systems for students and researchers in agricultural sciences. It covers grassland ecology principles, pasture establishment techniques, and seven agroforestry systems including silvipasture and agrisilviculture, including crop production technology in silvipastoral systems with emphasis on wasteland development and species selection. Topics include ecological succession, pasture renovation, management practices, and economic assessment of agroforestry systems with reference to Indian ecological conditions. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
July 2026 : 250pp
Hb: 978-1-041-37126-7 : **£175**
eBook: 978-1-042-01028-8

* For full contents and more information, visit: www.routledge.com/9781041371267

Advances and Applications in Biotechnology: Volume 3

Molecular Markers in Animal System



Edited by **Arti Gupta , Ali Asghar Rastegari** Falavarjan Branch, Islamic Azad University, Isfahan

Series: Prospect of Animal Biotechnology and Future Developments

This volume brings together cutting-edge research and critical reviews on the role of molecular markers in advancing animal science. From fundamental principles to applied strategies, the chapters explore how molecular diagnostics and marker-based approaches are reshaping our understanding of animal systems, disease resistance, and environmental interactions.

CRC Press
September 2026 : 360pp
Hb: 978-1-032-59814-7 : **£115**

* For full contents and more information, visit: www.routledge.com/9781032598147

AI-Driven Plant Biotechnology



Edited by **Jen-Tsung Chen**

Artificial intelligence has immense potential in boosting crop productivity through efficient selection of desirable phenotypes, utilization of agricultural inputs, disease and pest management, and provide location specific management advice to the growers. AI-Driven Plant Biotechnology presents strategies to help users develop crops that deliver higher yields, enhanced nutritional value, and disease resistance to aid in sustainable agriculture practices. This book is designed for researchers in plant sciences, plant biotechnology, and crop breeding including students and professors for their essential and supplementary reading in plant biology and biotechnology courses.

CRC Press
November 2026 : 624pp
Pb: 978-1-041-11788-9 : **£110**
Hb: 978-1-041-11354-6 : **£205**

* For full contents and more information, visit: www.routledge.com/9781041117889

AI-Driven Smart Fertilization

Enhancing Crop-Water Productivity and Soil Health



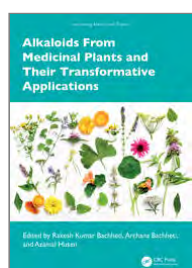
R. K. Gupta , R. K. Naresh , S.S. Walia , U.P. Singh , Dinesh Tomar , Ashok Kumar , Y.P. Singh , Raj Paul Sharma

This book addresses artificial intelligence applications in smart fertilization for researchers and practitioners in precision agriculture. It covers AI-driven nutrient optimization, machine learning models, and integration of Internet of Things (IoT) and smart sensors for soil health monitoring. It also examines robotics, big data analytics, and geospatial AI for site-specific nutrient management. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
July 2026 : 596pp
Hb: 978-1-041-37139-7 : **£175**
eBook: 978-1-042-01030-1

* For full contents and more information, visit: www.routledge.com/9781041371397

Alkaloids From Medicinal Plants and Their Transformative Applications



Edited by Rakesh Kumar Bachheti Addis Ababa Science and Technology University, Ethiopia, **Archana Bachheti** Graphic Era University, India, **Azamal Husen** Wolaita Sodo University, Ethiopia

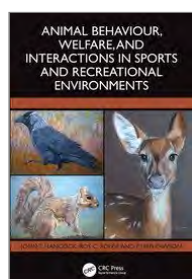
Series: Exploring Medicinal Plants

Alkaloids from medicinal plants and their transformative applications comprehensively explores alkaloids derived from medicinal plants, presenting information on their chemical properties, extraction techniques, and transformative applications in healthcare. It discusses how alkaloids from medicinal plants are used in traditional and modern systems of medicine, and explores potentials in health improvement. It also discusses how these substances function within the body and what studies have been conducted to demonstrate their efficacy.

CRC Press
May 2026 : 308pp
Hb: 978-1-032-86607-9 : **£180**
eBook: 978-1-003-53917-9

* For full contents and more information, visit: www.routledge.com/9781032866079

Animal Behaviour, Welfare, and Interactions in Sports and Recreational Environments



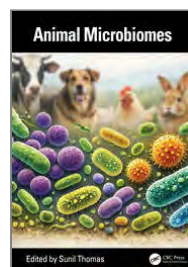
John T. Hancock UWE Bristol, **Ros C. Rouse** UWE Bristol, **Chris Pawson** UWE Bristol

Bringing together the expertise of the authors in biology, animal behaviour, anthrozoology and psychology, this book discusses ways to encourage, or discourage, animals in sports and leisure settings, whilst always observing best possible welfare and conservation practice. In exploring our relationships with animals in areas managed by humans, this book aims to progress how facilities can be improved. It also adopts a One World lens encouraging us to interrogate our preconceived ideas about the animals with which we share these spaces and ultimately hopes that, with better understanding, animals will be treated with respect and wonder rather than seen as a source of conflict.

CRC Press
August 2026 : 232pp
Pb: 978-1-032-98622-7 : **£52.99**
Hb: 978-1-032-98623-4 : **£135**

* For full contents and more information, visit: www.routledge.com/9781032986227

Animal Microbiomes



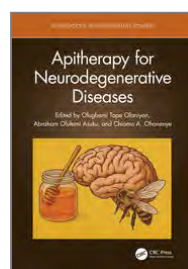
Edited by Sunil Thomas

Animal health and well-being is significantly affected by the associated microbiome. This volume reviews animal microbiomes in a variety of mostly domesticated animals such as dairy cattle, poultry, camels, buffalo, and pets. In addition, wild animal microbiomes in salmon, other marine fish and shrimp are also reviewed.

CRC Press
September 2026 : 312pp
Hb: 978-1-041-07050-4 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041070504

Apitherapy for Neurodegenerative Diseases



Edited by Olugbemi Tope Olaniyan , Abraham Olufemi Asuku , Chioma A. Ohanenye

Series: Neuroscience of Neurodegenerative Disorders

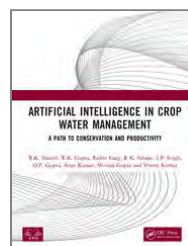
This book explores the use of bee venom therapy, in managing neurodegenerative diseases within naturopathic and traditional medicine. Once mainly used for pain-related disorders, apitherapy is now recognized for its therapeutic compounds and molecular mechanisms. With a long history in many cultures it is gaining renewed interest. However, the absence of standardized procedures has limited its wider adoption in modern healthcare. This book offers an up-to-date overview of apitherapy, covering its history, methods, safety, bioactive components, and clinical applications. It aims to equip medical professionals with the knowledge and skills to integrate apitherapy into patient care.

CRC Press
June 2026 : 196pp
Hb: 978-1-041-16652-8 : **£155**
eBook: 978-1-003-68565-4

* For full contents and more information, visit: www.routledge.com/9781041166528

Artificial Intelligence in Crop Water Management

A Path to Conservation and Productivity



R. K. Naresh , R. K. Gupta , Rajbir Garg , R. K. Sohane , J. P. Singh , O. P. Gupta , Arun Kumar , Shivam Gupta , Vineet Kumar

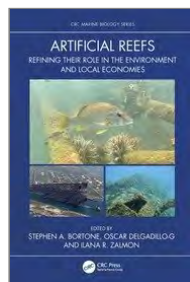
This book addresses artificial intelligence applications in agricultural water management for researchers and practitioners in precision agriculture. It covers AI-driven irrigation strategies, machine learning for water-use efficiency, and integration of IoT and smart sensors for crop sustainability. Topics include automated irrigation systems, climate-resilient agriculture, remote sensing, GIS applications, and AI-enhanced forecasting for sustainable water resource management in crop production. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
July 2026 : 738pp
Hb: 978-1-041-37129-8 : **£175**
eBook: 978-1-042-01029-5

* For full contents and more information, visit: www.routledge.com/9781041371298

Artificial Reefs

Refining their Role in the Environment and Local Economies



Edited by **Stephen A. Bortone** Osprey Aquatic Sc., **Oscar Delgadillo-G** Osprey Aquatic Sc., **Ilana R. Zalmon** UENF Darcy Ribeiro

Series: *CRC Marine Biology Series*

Artificial Reefs represents the accumulation of over 50 years of research on artificial reefs as offered through the 12th International Conference on Artificial Reefs and Related Aquatic Habitats (CARAH) 2025. The edited, multi-authored chapters offer an up-to-date examination of the broadest areas of artificial reefs. These include fisheries, environmental management, survey techniques, sophisticated applications of statistical analysis, socio-economics and the role of the citizen scientist in further expanding future research efforts. Careful consideration is given to the relationships artificial reefs have with the local communities with which they are proximate.

CRC Press
October 2026 : 232pp
Hb: 978-1-041-14682-7 : £140

* For full contents and more information, visit: www.routledge.com/9781041146827

Atlas of Comparative Morphology of the Vertebrate Skull



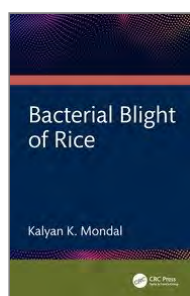
Christopher J. Bell University of Texas, Austin, USA,
Matthew Colbert University of Texas, Austin, USA

This book is intended to be a pictorial atlas of the morphology of the vertebrate skull. The volume will include high-quality images of skulls from all the major groups of vertebrates (elasmobranchs, actinopterygian fishes, lungfish, anurans, caudatans, gymnophionans, lizards, snakes, amphisbaenians, tuatara, crocodilians, turtles, birds, mammals). Images will be accompanied by explanatory text, and will be supplemented with literature citations to the voluminous literature on the vertebrate skull.

CRC Press
November 2026 : 301pp
Hb: 978-1-498-77415-4 : £175

* For full contents and more information, visit: www.routledge.com/9781498774154

Bacterial Blight of Rice



Kalyan K. Mondal ICAR-IARI, New Delhi, India

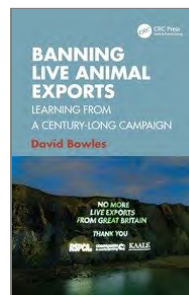
Bacterial Blight of Rice offers a comprehensive and authoritative account of one of the most destructive diseases threatening global rice production. Rice (*Oryza sativa* L.), the staple food for more than half of the world's population, suffers severe yield losses—often 30–60%—from bacterial blight caused by *Xanthomonas oryzae* pv. *oryzae* (Xoo). Although nearly 50 resistance (Xa) genes have been deployed in breeding programmes, the rapid evolution of Xoo races continues to undermine durable resistance, demanding a deeper understanding of pathogen diversity and host–pathogen interactions.

CRC Press
August 2026 : 234pp
Hb: 978-1-041-20008-6 : £115

* For full contents and more information, visit: www.routledge.com/9781041200086

Banning Live Animal Exports

Learning from a Century-Long Campaign



David Bowles

This is the first book to look at live exports of animals, one of the most emotive animal welfare issues still needing to be solved, and finally stopped in Britain in 2025. David Bowles explores why live export of animals happened and why it ended, examining the economic, social and public opinion drivers, Britain's challenging relationship with Europe, and the different species impacted. It assesses campaigns to stop the trade in horses, sheep, cattle and calves from eight different countries. As well as being highly relevant for those in animal welfare, this book offers insights for anybody in social/political advocacy, campaigning and activism, regardless of the issue.

CRC Press
June 2026 : 218pp
Pb: 978-1-041-14742-8 : £29.99
Hb: 978-1-041-14743-5 : £195

* For full contents and more information, visit: www.routledge.com/9781041147428

Biodiversity and Conservation of Endemic Medicinal Plants

Challenges and Strategies for Sustainable Ecosystems



Edited by **Noureddine Chaachouay**, **Ouafae Benkhniq**, **Lahcen Zidane**

Series: *Exploring Medicinal Plants*

Plants underpin life on Earth, yet biodiversity is slipping away. Centring on endemic species Biodiversity and Conservation of Endemic Medicinal Plants: Challenges and Strategies for Sustainable Ecosystems reveal their unique traits, specialised habitats and vital roles in ecological networks, from pollinator partnerships to community dynamics. It evaluates conservation status against the IUCN Red List and national frameworks, maps the major threats, and pairs them with in situ and ex situ responses.

CRC Press
November 2026 : 392pp
Hb: 978-1-041-04686-8 : £170

* For full contents and more information, visit: www.routledge.com/9781041046868

Biodynamic Farming

An Ancient Agriculture Wisdom



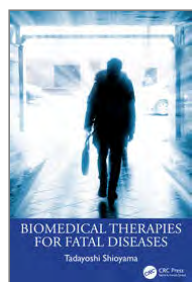
M. Ramanjineyulu, **Mude Ashok Naik**, **S.N. Abhilash Naik**, **A. Bharathi**, **Singireddy Prabhu Mitra Reddy**, **Sibbala Yoshitha**, **Deepika J.**, **Marati Sainath Rao**

This book examines biodynamic farming with focus on principles and international practices. Chapters address biodynamic preparations for soil health and fertility management. The book discusses lunar rhythms in planting and cultivation practices. It covers livestock integration, certification standards, and economic considerations. The volume presents profiles of biodynamic farms with guidance on establishment and management. It examines emerging trends and technologies with practical implementation strategies. This title has been co-published with Content Vibes. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

CRC Press
August 2026 : 184pp
Hb: 978-1-041-34910-5 : £175

* For full contents and more information, visit: www.routledge.com/9781041349105

Biomedical Therapies for Fatal Diseases



Tadayoshi Shioyama

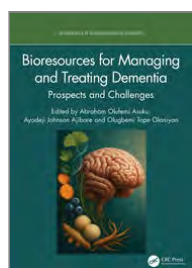
This book documents the history of treating various fatal disease and the progress made on various therapies that have extended life expectancy and alleviated suffering in those afflicted by these diseases. For example, advances in vaccination protocols have rendered some once nearly always fatal diseases nearly extinct. After the introductory explanation, this book explains about causes or mechanisms of fatal diseases such as cancer and ALS, and about recent therapies that may relieve patients' suffering, such as photoimmunotherapy, checkpoint blockade therapy, CAR T cell therapy and current ALS therapy. Furthermore, clinical trials approved by FDA are described.

CRC Press
September 2026 : 184pp
Hb: 978-1-041-31771-5 : £140

* For full contents and more information, visit: www.routledge.com/9781041317715

Bioresources for Managing and Treating Dementia

Prospects and Challenges



Edited by Abraham Olufemi Asuku, Ayodeji Johnson Ajibare, Olugbemi Tope Olaniyan

Series: Neuroscience of Neurodegenerative Disorders

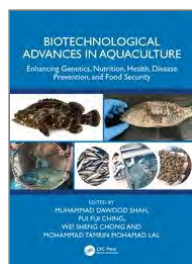
Globally, dementia is a health challenge with remarkable socio-economic implications. In spite of advances in conventional treatment, there is an urgent need for more accessible, effective, and safer therapeutic options. Bioresources offer a promising avenue for dementia treatment and management. This book explores the potential of bioresources in dementia management, focusing on their mechanisms of action and key prospects and addressing the critical obstacles that must be navigated to harness their full therapeutic potentials.

CRC Press
May 2026 : 200pp
Hb: 978-1-041-10914-3 : £155
eBook: 978-1-003-65738-5

* For full contents and more information, visit: www.routledge.com/9781041109143

Biotechnological Advances in Aquaculture

Enhancing Genetics, Nutrition, Health, Disease Prevention, and Food Security



Edited by Muhammad Dawood Shah Univ. Malaysia, Fui Ching Univ. Malaysia, Wei Sheng Chong Univ. Malaysia, Mohammad Tamrin Mohammad Lal Univ. Malaysia

This textbook provides a comprehensive exploration of the latest biotechnological innovations transforming the aquaculture industry. With contributions from leading experts, it offers actionable insights and practical solutions to the challenges facing aquaculture. It will be an indispensable resource for students and researchers who want to understand the integration of biotechnology to promote sustainable aquaculture practices, innovation and resilience in global seafood production.

CRC Press
October 2026 : 432pp
Hb: 978-1-041-13295-0 : £200

* For full contents and more information, visit: www.routledge.com/9781041132950

Breeding Approaches in Plantation, Spice, Medicinal and Aromatic Crops



Richa Sao, Anita Kerketta, Bharti Sao

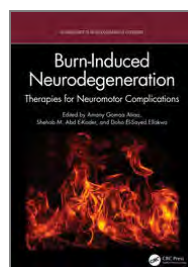
This book addresses breeding theory and practice for plantation, spice, medicinal, and aromatic crops for researchers and students in perennial crop improvement. It covers genetic resources, hybridization techniques, cytogenetics, pollination biology, and incompatibility systems. It examines molecular breeding, genomic selection, and climate-smart selection strategies for crops including coconut, coffee, tea, cardamom, turmeric, and ashwagandha. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
July 2026 : 334pp
Hb: 978-1-041-37142-7 : £175

* For full contents and more information, visit: www.routledge.com/9781041371427

Burn-Induced Neurodegeneration

Therapies for Neuromotor Complications



Edited by Amany Gomaa Atiaa, Shehab M. Abd E-Kader, Doha El-Sayed Ellakwa

Series: Neuroscience of Neurodegenerative Disorders

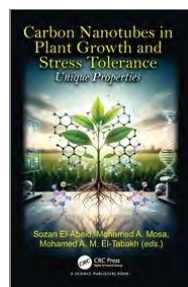
Burn-induced systemic inflammation, neuroinflammatory cascades, and ICU-related neurological syndromes collectively form a clinical continuum that mimics or contributes to neurodegeneration. Framed within this paradigm, this book offers an evidence-based approach to neuromotor rehabilitation that addresses both central and peripheral nervous system complications. It bridges acute trauma with chronic neurofunctional loss, positioning physical therapy as a pivotal intervention to modulate degeneration, support neuroplasticity, and enhance recovery.

CRC Press
May 2026 : 256pp
Hb: 978-1-041-14485-4 : £160
eBook: 978-1-003-67466-5

* For full contents and more information, visit: www.routledge.com/9781041144854

Carbon Nanotubes in Plant Growth and Stress Tolerance

Unique Properties



Edited by Sozan El-Abeid, Mohamed A. Mosa, Mohamed A. M. El-Tabakh

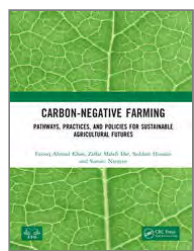
This book explores the revolutionary role of CNTs in agriculture, from yield increase and nutrient use efficiency to intelligent fertilization, pathogen detection, and waste recycling in a more environmentally friendly way. Bridging nanotechnology and farming, it highlights recent breakthroughs and practical applications while addressing long-term environmental impacts. A must-read for scientists, innovators, and professionals involved in sustainability concerning the future of eco-friendly agricultural practices.

CRC Press
June 2026 : 298pp
Hb: 978-1-041-02130-8 : £125
eBook: 978-1-003-62742-5

* For full contents and more information, visit: www.routledge.com/9781041021308

Carbon-Negative Farming

Pathways, Practices, and Policies for Sustainable Agricultural Futures



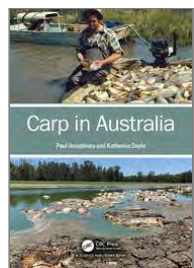
Farooq Ahmad Khan, Zaffar Mahdi Dar, Saddam Hussain, Sumati Narayan

This book addresses carbon-negative farming for researchers, students, and policymakers seeking science-based understanding of climate-positive agriculture. It covers principles and practices of carbon-negative farming, soil health and carbon sequestration, and carbon accounting tools. The book examines economic viability, market mechanisms, policy frameworks, and indigenous knowledge systems. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
July 2026 : 396pp
Hb: 978-1-041-37157-1 : **£175**
eBook: 978-1-042-01037-0

* For full contents and more information, visit: www.routledge.com/9781041371571

Carp in Australia



Paul Humphries Charles Sturt Univ., **Katherine Doyle** Charles Sturt Univ.

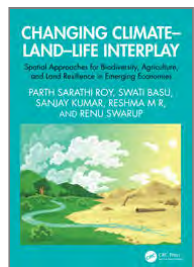
Carp was introduced into Australia in the mid-1800s for ornament and angling, but since its escape into Gippsland and the Murray–Darling Basin, the fish has wreaked ecological havoc in rivers, lakes and wetlands. Carp in Australia tells the story of how one of their most hated species was brought to the country. It explores carp's recent spread throughout Australia's largest inland river system, the Murray–Darling Basin, its impacts on freshwater ecosystems and the attempts to deal with the scourge. Readers are given key insights into the management challenges and possibilities in carp's uncertain future in Australia. Is there hope for eradication, or is this fish here to stay?

CRC Press
June 2026 : 240pp
Pb: 978-1-041-26479-8 : **£52.99**
Hb: 978-1-041-26480-4 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041264798

Changing Climate–Land–Life Interplay

Spatial Approaches for Biodiversity, Agriculture, and Land Resilience in Emerging Economies



Parth Sarathi Roy, Swati Basu, Sanjay Kumar, Reshma M R, Renu Swarup

Climate change is an intensifying reality of the present, reshaping land systems, ecosystems, and human livelihoods across the globe. Its impacts are most clearly manifested through changes in land cover and land use, degradation of ecosystems, loss of biodiversity, and growing risks to food systems, water security, and rural and urban livelihoods. Changing Climate–Land–Life Interplay: Spatial Approaches for Biodiversity, Agriculture, and Land Resilience in Emerging Economies examines these interdependencies by placing human well-being and livelihood security at the core of climate–land–life interactions.

CRC Press
July 2026 : 466pp
Hb: 978-1-041-25058-6 : **£205**

* For full contents and more information, visit: www.routledge.com/9781041250586

4TH EDITION

Circadian Physiology



Roberto Refinetti, PhD, Boise State University, Idaho, USA

Circadian rhythms influence most of our life activities, notably getting up and going to sleep every day. This new edition of Circadian Physiology delves into the mechanisms surrounding how these rhythms work, the physiology and biology behind them, and the latest research on this cutting-edge field. The book also discusses a wide variety of practical topics including the prevention of jet lag, management of shift work, sleep disorders, depression, and the optimal times for physical and intellectual activities.

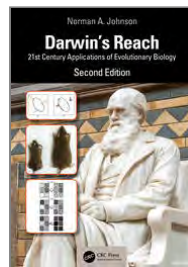
CRC Press
June 2026 : 1034pp
Hb: 978-1-032-29855-9 : **£245**
eBook: 978-1-003-30237-7

* For full contents and more information, visit: www.routledge.com/9781032298559

2ND EDITION

Darwin's Reach

21st Century Applications of Evolutionary Biology



Norman A. Johnson

The application of evolutionary biology addresses a wide range of practical problems in medicine, agriculture, the environment, and society. Such cutting-edge applications are emerging due to recent advances in DNA sequencing, new gene editing tools, and computational methods. This book is about applied evolution – the application of the principles of and information about evolutionary biology to diverse practical matters. Although applied evolution has existed, unrecognized, for a very long time, today's version has a much wider scope. Even many who accept evolution do not grasp how far Darwin's reach extends. All the chapters have been updated and thoroughly revised.

CRC Press
August 2026 : 416pp
Pb: 978-1-032-88544-5 : **£69.99**
Hb: 978-1-032-88545-2 : **£170**

* For full contents and more information, visit: www.routledge.com/9781032885445

Diet and the Microbiome



Edited by **Sunil Thomas**

Diet plays a crucial role in shaping the composition of the gut microbiome. Recent research is rapidly strengthening the appreciation that associated microorganisms make essential contributions to human health and well-being. A low diversity of microorganisms is associated with a plethora of diseases including allergy, diabetes, obesity, arthritis, inflammatory bowel diseases and even neuropsychiatric disorders. Thus, an interaction of microorganisms with the host immune system is required for a healthy body. The microbiome in humans is also not constant during lifespan, but rather changes with age.

CRC Press
October 2026 : 232pp
Hb: 978-1-041-06987-4 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041069874

Disaster Management and Business Continuity for Animal Research Programs



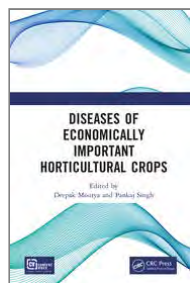
Edited by **Lesley A. Colby**, **John N. Norton**, **Jason S. Villano**, **Lois A. Zitzow**

This book provides guidance on planning for, responding to, and recovering from the impacts of disasters that animal research programs may encounter, such as severe weather, failures of facility mechanical systems, damage to equipment or infrastructure, or personnel shortages. Each chapter offers in-depth coverage of a specific topic, including regulatory requirements, the Incident Command System, business continuity plans, training strategies, psychological well-being of personnel, IT infrastructure and cyber-risk, and effective communications, as well as checklists and case studies. This book is an essential resource for animal research program leadership and animal care personnel.

CRC Press
October 2026 : 288pp
Pb: 978-1-032-14692-8 : **£52.99**
Hb: 978-1-032-14691-1 : **£195**

* For full contents and more information, visit: www.routledge.com/9781032146928

Diseases of Economically Important Horticultural Crops



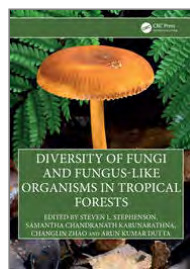
Edited by **Deepak Mourya**, **Pankaj Singh**

This book addresses diseases affecting major horticultural crops in India with comprehensive management strategies. It examines economic importance of horticulture in India's GDP and covers disease management for fruit crops, vegetables, plantation crops, and ornamental plants. Chapters provide systematic approaches to disease identification and control measures combining cultural, biological, and chemical methods for sustainable horticultural production and crop protection. This title has been co-published with Content Vibes. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

CRC Press
August 2026 : 348pp
Hb: 978-1-041-34904-4 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041349044

Diversity of Fungi and Fungus-Like Organisms in Tropical Forests



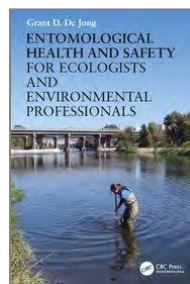
Edited by **Steven L. Stephenson**, **Samantha Chandranath Karunarathna**, **Changlin Zhao**, **Arun Kumar Dutta**

Tropical forests cover approximately six percent of the land surface of the earth and more than thirty percent of all forested areas on the entire planet. These forests are characterized by a very high level of diversity for the assemblages of organisms present. Diversity of Fungi and Fungus-Like Organisms in Tropical Forests brings together information on these organisms obtained by scientists who are actively carrying out research in every region of the world where tropical forests occur. Among the major subject areas considered are ecology, biogeography, and taxonomy.

CRC Press
August 2026 : 410pp
Pb: 978-1-041-08590-4 : **£89.99**
Hb: 978-1-041-08830-1 : **£200**

* For full contents and more information, visit: www.routledge.com/9781041085904

Entomological Health and Safety for Ecologists and Environmental Professionals



Grant D. De Jong

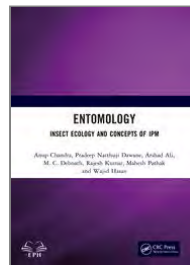
This structured, field-focused guide to the medical and operational risks posed by insects, arachnids, and their allies combines insights from biology, health and safety, and practical field experience. It equips readers with the knowledge to anticipate, assess, and mitigate arthropod-related risks across a wide range of environments and occupations. It is designed for field biologists, utility crews, safety officers, project managers, and anyone who plans or participates in outdoor work, empowering teams to plan confidently, reduce avoidable risk, and improve morale by understanding the entomological landscape of their job sites.

CRC Press
August 2026 : 313pp
Pb: 978-1-041-25226-9 : **£52.99**
Hb: 978-1-041-25227-6 : **£135**

* For full contents and more information, visit: www.routledge.com/9781041252269

Entomology

Insect Ecology and Concepts of IPM



Anup Chandra, **Pradeep Natthuji Dawane**, **Arshad Ali**, **M. C. Debnath**, **Rajesh Kumar**, **Mahesh Pathak**, **Wajid Hasan**

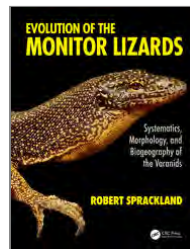
This book addresses applied entomology advancements through comprehensive analysis of pest management strategies and beneficial insect applications. The study covers integrated pest management techniques, regulatory frameworks, and biotechnology applications crucial for understanding modern entomological practices and sustainable agricultural pest control methodologies. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
May 2026 : 428pp
Hb: 978-1-041-33118-6 : **£205**
eBook: 978-1-003-78755-6

* For full contents and more information, visit: www.routledge.com/9781041331186

Evolution of the Monitor Lizards

Systematics, Morphology, and Biogeography of the Varanids



Robert George Sprackland

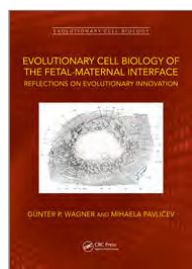
This book is a comprehensive review of the entire lineage of monitor lizards, living and extinct. It fills a gap in our understanding of the relationships and role of environmental and ecological diversity and their effects on evolution and ecology. These lizards, so often described as "morphologically uniform" differing mainly in size, are incredibly diverse. This variation is comprised of numerous small features adding up to 80-plus distinctly different species. Monitors are shown to be far from a homogeneous group, a lineage in which subtle variations have led to profoundly divergent organisms.

CRC Press
July 2026 : 307pp
Hb: 978-1-032-73031-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032730318

Evolutionary Cell Biology of the Fetal-Maternal Interface

Reflections on Evolutionary Innovation



Günter P. Wagner, Mihaela Pavličev

Series: Evolutionary Cell Biology

The cell biological perspective on the evolution of the Fetal-Maternal Interface has several historical roots. The best known is the immunological paradox, i.e. the maternal tolerance of a semi-allogeneous tissue in her body. In this book the authors explore three alternative views of this interface: the cell biological paradox involved in embryo attachment, the inflammation paradox, and the tissue biological paradox.

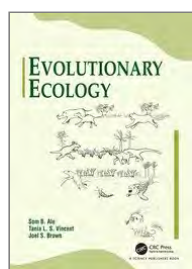
CRC Press

July 2026 : 170pp

Hb: 978-1-032-71045-7 : £120

* For full contents and more information, visit: www.routledge.com/9781032710457

Evolutionary Ecology



Som B. Ale Univ. of Illinois at Chicago, **Tania L. S. Vincent**, **Joel S. Brown** Moffitt Cancer Center, Tampa FL

This book presents evolutionary ecology as a unified discipline rooted in Darwin's work, emphasizing the interplay between ecological processes and evolution by natural selection, both operating within Earth's physical systems. While it covers core topics such as population dynamics, species interactions, and ecological succession, it distinguishes itself through its focus on evolutionary game theory, life-history strategies, and foraging ecology. The narrative extends into applied areas—including biodiversity, climate change, human evolution, and cancer biology—demonstrating how an eco-evolutionary perspective provides a coherent framework for understanding the natural world.

CRC Press

May 2026 : 298pp

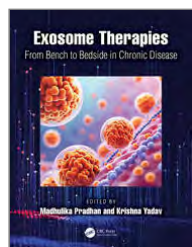
Hb: 978-0-367-43763-3 : £170

eBook: 978-1-003-00853-8

* For full contents and more information, visit: www.routledge.com/9780367437633

Exosome Therapies

From Bench to Bedside in Chronic Disease



Edited by **Madhulika Pradhan, Krishna Yadav**

This book provides a comprehensive overview of the evolving field of exosome-based therapies for chronic diseases. It explores the biology of exosomes, including their discovery, composition, biogenesis, and their role in intercellular communication and targeted drug delivery.

CRC Press

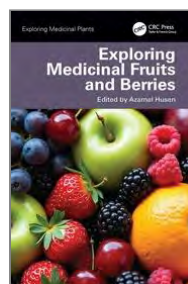
July 2026 : 242pp

Hb: 978-1-041-03391-2 : £110

eBook: 978-1-003-62363-2

* For full contents and more information, visit: www.routledge.com/9781041033912

Exploring Medicinal Fruits and Berries



Edited by **Azamal Husen** Wolaita Sodo University, Ethiopia

Series: Exploring Medicinal Plants

Exploring Medicinal Fruits and Berries is a clear, authoritative guide to fruits long valued in traditional medical systems and increasingly examined by modern science. It explains how naturally occurring bioactive compounds—antioxidants, polyphenols, flavonoids, vitamins and minerals—contribute to pathways relevant to health risk and wellbeing. Bridging traditional knowledge with state-of-the-art research, the book surveys fruits and berries with evidence across immunity, inflammation management, cardiovascular and metabolic health, healthy ageing, skin health and gastrointestinal function.

CRC Press

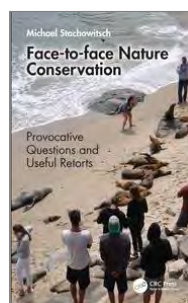
September 2026 : 344pp

Hb: 978-1-041-16384-8 : £170

* For full contents and more information, visit: www.routledge.com/9781041163848

Face-to-face Nature Conservation

Provocative Questions and Useful Retorts



Michael Stachowitsch University of Vienna

This primer equips environmental practitioners – teachers, students, researchers, citizen scientists, park rangers and guides, zoo staffs, volunteers – for what they can expect to hear while going about their business. It provides set of concise answers to over 200 questions or assertions arranged in 20 headings covering major ecosystems and their inhabitants, natural history institutions, as well as various human perspectives and activities. You'll never again be caught off guard, stumped or flustered. A dash of humor and a twinkle in the eye maximizes the chances that those on the other side of the proverbial fence will shake your hand and urge you to keep up the good work.

CRC Press

August 2026 : 232pp

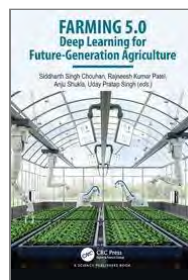
Pb: 978-1-041-28048-4 : £41.99

Hb: 978-1-041-28050-7 : £110

* For full contents and more information, visit: www.routledge.com/9781041280484

Farming 5.0

Deep Learning for Future-Generation Agriculture



Edited by **Siddharth Singh Chouhan, Rajneesh Kumar Patel, Anju Shukla, Uday Pratap Singh**

This book explores how deep learning and advanced AI are revolutionizing agriculture, from autonomous systems and UAVs to computer vision, genomics, and generative AI for synthetic data and digital twins. It emphasizes climate-smart, sustainable farming amid global challenges, while addressing ethics and policy for inclusive AI. Ideal for researchers, students, and policymakers.

CRC Press

July 2026 : 452pp

Hb: 978-1-041-14412-0 : £105

* For full contents and more information, visit: www.routledge.com/9781041144120

Fighting for Farmed Animals

Campaigning on the Shoulders of Giants



Edited by **Amy Odene** Campaigns Lab

This book brings together first-hand accounts from advocates campaigning for farmed animals across the world. Each story is from an individual who pushed through hardship, accepted their position as the underdog and fought anyway. The book shows that, despite being up against a powerful industry whose marketing and lobbying budgets vastly out scale their entire global funding, animal advocates have the power to bring down these giants and their cruel practices. Acting as a training tool and source of global inspiration, this insightful collection is an energizing and informative reference for those working in animal advocacy, as well as those wanting to join the field.

CRC Press

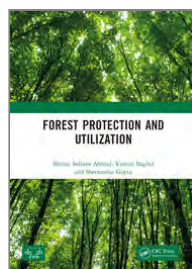
September 2026 : 208pp

Pb: 978-1-041-07200-3 : **£29.99**

Hb: 978-1-041-07204-1 : **£74.99**

* For full contents and more information, visit: www.routledge.com/9781041072003

Forest Protection and Utilization



Shenaz Sultana Ahmed, Yamini Baghel, Sheetanshu Gupta

This book addresses forest pathology, entomology, and forest product utilization for students, researchers, and forest managers. It covers plant pathogens in forest ecosystems, classification of forest diseases, and principles of tree disease control. The book examines pest control methods, nursery disease management, and protection strategies. Topics include logging operations, felling techniques, timber transportation and storage, forest produce and its uses, minor forest products, and medicinal plants. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press

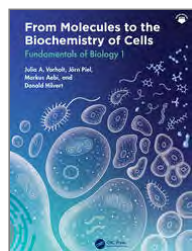
July 2026 : 412pp

Hb: 978-1-041-37208-0 : **£175**

* For full contents and more information, visit: www.routledge.com/9781041372080

From Molecules to the Biochemistry of Cells

Fundamentals of Biology 1



Julia A. Vorholt, Jörn Piel, Markus Aebi, Donald Hilvert

This textbook introduces biology as an interdisciplinary science, linking physics and chemistry to biological processes. Based on an evolutionary narrative, the focus is on the molecular composition and biochemistry of cells. By grounding biology in its molecular foundations, this approach reveals unifying principles underlying life's diversity and provides a conceptual framework for biological complexity. Core concepts include macromolecular structure and function, information encoding and decoding, and universal principles of energy conversion. This book is designed for students seeking an integrated introduction to biology that connects molecular mechanisms to cellular structures.

CRC Press

May 2026 : 298pp

Pb: 978-1-032-51836-7 : **£52.99**

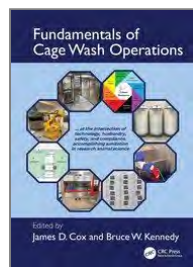
Hb: 978-1-032-51839-8 : **£110**

eBook: 978-1-003-40415-6

* For full contents and more information, visit: www.routledge.com/9781032518367

Fundamentals of Cage Wash Operations

At the intersection of technology, husbandry, safety, and compliance, accomplishing sanitation in research animal science



Edited by **James D. Cox, Bruce W. Kennedy**

The animal care and use facility support (cagewash) area has evolved tremendously in the past fifty years, and is now recognized as a critical component in programs of animal care and use throughout the world. This much-needed book describes facility support operations that have a direct, substantial effect on the program's ability to provide quality animal care. There is a significant volume of knowledge necessary to work in these facility support roles, which is spread across many different resources, many of which are unpublished and/or at a highly skilled technical level. This brings all the relevant information together in an accessible, highly practical guide.

CRC Press

August 2026 : 442pp

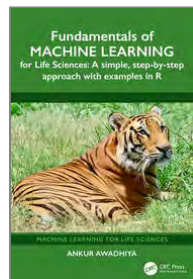
Pb: 978-0-367-02853-4 : **£79.99**

Hb: 978-1-041-34075-1 : **£190**

* For full contents and more information, visit: www.routledge.com/9780367028534

Fundamentals of Machine Learning for Life Sciences

A Simple, Step-by-Step Approach with Examples in R



Ankur Awadhiya

Series: *Machine Learning for Life Sciences*

This book offers a clear and steady introduction to how machines learn from data. It explains how models begin to understand, decide, improve, and sometimes falter. Ideas build gradually, one upon another, supported by real examples and datasets in R. The focus is insight over jargon, clarity over complexity. As these ideas become familiar, they also hold the promise of supporting the works of scientists, engineers, and students — by opening new pathways of exploration.

CRC Press

May 2026 : 378pp

Hb: 978-1-041-27556-5 : **£110**

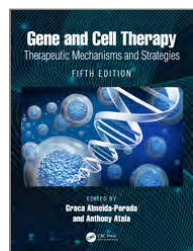
eBook: 978-1-003-75498-5

* For full contents and more information, visit: www.routledge.com/9781041275565

5TH EDITION

Gene and Cell Therapy

Therapeutic Mechanisms and Strategies



Edited by **Graca Almeida-Porada, Anthony Atala**

This book presents extensive background and basic information, state-of-the-art technologies, important achievements, and lingering challenges in the fields of gene and cell therapies. The fifth edition of this bestseller continues to provide the most comprehensive coverage of these fields in one volume. Some chapters have expanded introductions, making the book even more suitable for classroom use. This edition also offers more material on the contributors' research efforts as well as current technologies, disease targets, and clinical applications.

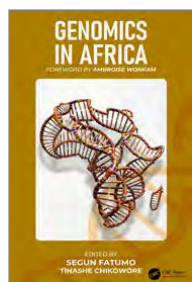
CRC Press

September 2026 : 528pp

Hb: 978-0-367-77179-9 : **£255**

* For full contents and more information, visit: www.routledge.com/9780367771799

Genomics in Africa



Edited by **Segun Fatumo , Tinashe Chikowore**

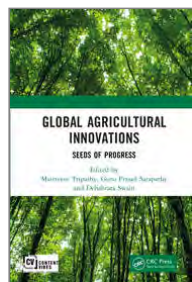
Africans have the most diverse genomes of all human populations. However, only limited genomic studies from Africans are currently available to inform the development of disease prevention strategies, early detection tools and treatment options. This trajectory is now changing following several initiatives in Africa including the H3Africa.

CRC Press
August 2026 : 232pp
Hb: 978-1-032-54735-0 : £115

* For full contents and more information, visit: www.routledge.com/9781032547350

Global Agricultural Innovations

Seeds of Progress



Edited by **Maitreyee Tripathy , Guru Prasad Satapathy , Debabrata Swain**

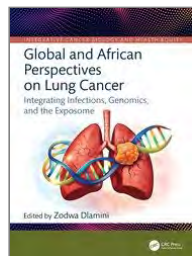
This book addresses contemporary agricultural development issues through analysis of sustainable farming practices, digital transformation in extension, and strategic marketing approaches. It examines women's role in agriculture and youth empowerment strategies. Chapters cover regenerative and biodynamic farming, AI and IoT integration in extension, and climate-resilient agriculture. The volume discusses global food security challenges with focus on inclusive and sustainable agricultural systems. This title has been co-published with Content Vibes. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

CRC Press
August 2026 : 118pp
Hb: 978-1-041-34908-2 : £115

* For full contents and more information, visit: www.routledge.com/9781041349082

Global and African Perspectives on Lung Cancer

Integrating Infections, Genomics, and the Exposome



Edited by **Zodwa Dlamini**

Series: *Integrative Cancer Biology and Health Equity*

This book provides a comprehensive and integrated view of lung cancer, combining global evidence with African-specific perspectives. It examines the epidemiology, histological subtypes, and multifactorial causes of the disease, with in-depth coverage of genomic alterations, molecular signatures, and population-specific variations in Africa.

CRC Press
November 2026 : 288pp
Hb: 978-1-041-21745-9 : £125

* For full contents and more information, visit: www.routledge.com/9781041217459

Goethe's Art of Science

A Guide to Goethe's Scientific Method



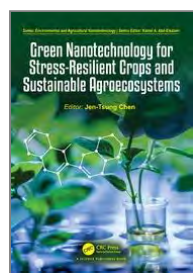
Malte C. Ebach

J. W. von Goethe contributed to comparative biology and systematic theory. He is acknowledged as both a scientist and a writer. Goethe's scientific interest was plant and animal morphology; his methods are familiar to today's taxonomists. The book provides 21st century context for Goethe's scientific work, and a compendium of his science.

CRC Press
October 2026 : 184pp
Hb: 978-1-032-23038-2 : £140

* For full contents and more information, visit: www.routledge.com/9781032230382

Green Nanotechnology for Stress-Resilient Crops and Sustainable Agroecosystems



Edited by **Jen-Tsung Chen**

Series: *Environmental and Agricultural Nanotechnology*

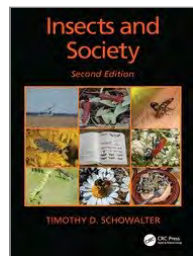
Green nanotechnology is an emerging approach that provides ways based on green synthesis to create nanoscale structures. Over the past years, it has set a new generation for producing smart, eco-friendly, cost-effective, and safety-engineered nanomaterials/nanoparticles. This book summarizes cutting-edge approaches of green nanotechnology and their current applications in regulating plant stress responses and managing agricultural environments. It covers most types of plant stressors, consisting of various biotic and abiotic factors, such as temperature, salinity, drought, heavy metals, pests, and pathogens.

CRC Press
May 2026 : 400pp
Hb: 978-1-032-87912-3 : £125
eBook: 978-1-003-56768-4

* For full contents and more information, visit: www.routledge.com/9781032879123

Heavy Metals in Soils

Effects on Terrestrial Ecosystems and Food Crop Plants



Edited by **Sesan Abiodun Aransiola Univ. of Abuja, Oluwatoyin Joseph Gbadeyan , Innocent Ojeba Musa , Naga Raju Maddela Uni. College of Eng. Sci. and Tech, India**

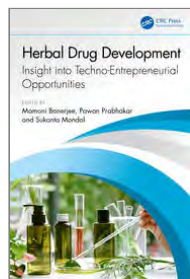
The pollution of soil by heavy metals (HMs) is a critical global challenge, threatening environmental health, agricultural productivity, and food security. Heavy Metals in Soils: Effects on Terrestrial Ecosystems and Food Crop Plants explores the multifaceted challenges posed by heavy metal contamination in soils and offers innovative solutions to mitigate its impact.

CRC Press
September 2026 : 272pp
Hb: 978-1-041-02809-3 : £145

* For full contents and more information, visit: www.routledge.com/9781041028093

Herbal Drug Development

Insight into Techno-Entrepreneurial Opportunities



Edited by **Mamoni Banerjee, Pawan Prabhakar, Sukanta Mondal**

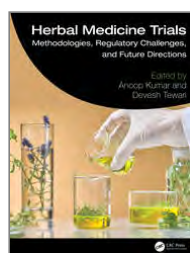
Herbal Drug Development: Insight into Techno-Entrepreneurial Opportunities aims to bridge this critical gap by integrating traditional medicinal knowledge with contemporary pharmaceutical science, emerging technologies, and entrepreneurial frameworks. The scope of the book spans the complete value chain of herbal drug development—from ethnomedicine and phytochemistry to industrial processing, regulatory affairs, and market translation. This book not only offering not only scientific insights but also strategic guidance for innovation-driven product development and enterprise creation in the herbal sector.

CRC Press
August 2026 : 408pp
Hb: 978-1-041-03419-3 : £115

* For full contents and more information, visit: www.routledge.com/9781041034193

Herbal Medicine Trials

Methodologies, Regulatory Challenges, and Future Directions



Edited by **Anoop Kumar, Devesh Tewari**

This book comprehensively provides the research and validation of herbal medicines within modern clinical trials. The book covers the basics of herbal remedies, their historical and cultural contexts, and delves into specific methodologies such as traditional evidence-based medicine, reverse pharmacology, and integrative medicine.

CRC Press
June 2026 : 226pp
Hb: 978-1-032-86259-0 : £120

* For full contents and more information, visit: www.routledge.com/9781032862590

2ND EDITION

How Proteins Work



Mike Williamson

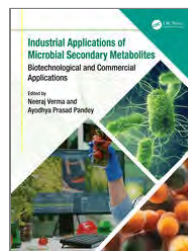
How Proteins Work is an authoritative account of protein function. It covers the full breadth of protein science, from protein structure and organisation, through evolution, regulation, dynamics, folding, allostery, and experimental techniques. This text will enable undergraduates in biochemistry and biophysics to understand the relationships between protein function, structure, and dynamics. It will also serve as a valuable resource for graduates and researchers. New to this edition is a fuller account of enzyme kinetics; more detail on protein folding; a more coherent account of avidity; and discussion of new developments including AlphaFold and cryo-electron microscopy.

Garland Science
November 2026 : 530pp
Pb: 978-0-815-34545-9 : £69
Hb: 978-1-041-06542-5 : £170

* For full contents and more information, visit: www.routledge.com/9780815345459

Industrial Applications of Microbial Secondary Metabolites

Biotechnological and Commercial Applications



Edited by **Neeraj Verma, Ayodhya Prasad Pandey**

This comprehensive volume of Industrial Applications of Microbial Secondary Metabolites - Biotechnological and Commercial Applications offers an in-depth, research-driven overview of microbial secondary metabolites, emphasizing their biosynthesis, functional diversity, and cross-sectoral industrial relevance. All chapters are authored by domain experts. This volume provides a comprehensive examination of microbial secondary metabolites, elucidating their biosynthetic complexity, ecological significance, and translational potential across agricultural, pharmaceutical, industrial, and environmental domains.

CRC Press
August 2026 : 296pp
Hb: 978-1-032-51550-2 : £115

* For full contents and more information, visit: www.routledge.com/9781032515502

Inflammation and Reproduction

Health Effects



Edited by **Tuba Sevimoglu** Hamidiye Institute of Health Sciences, Turkey, **Zihni Onur Çalıřkaner**

This book reviews the impact of inflammation on reproductive health and includes the role of genetics and molecular pathways in modulating interactions between these two often conflicting processes. Evidence-based and conventional therapies, as well as alternative therapies (e.g. and bioengineered tissues), are summarized. Discussions also include other factors such as microbiota associations and the effects of stress on biological clocks. Topics include the use of bioinformatics in the study of inflammatory reproductive disorders which might employ machine learning models in predicting cervical cancer and other factors contributing to reproductive health or disease.

CRC Press
November 2026 : 272pp
Hb: 978-1-041-10989-1 : £145

* For full contents and more information, visit: www.routledge.com/9781041109891

Insect Microbiomes



Edited by **Sunil Thomas**

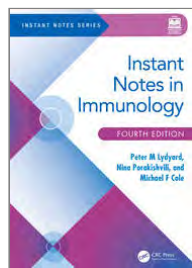
The microbiome of insects is intimately involved in their physiology, ecology, and evolution. This volume summarizes what is known of the microbiome of many different insect groups. For example, termites are able to digest cellulose thanks to their gut microbes. Honeybees make honey, in part, with the help of microbes. Chapters covering silkworms, ants, cockroaches, hornets, and mosquitos by leading researchers are all included.

CRC Press
September 2026 : 384pp
Hb: 978-1-041-07170-9 : £170

* For full contents and more information, visit: www.routledge.com/9781041071709

4TH EDITION

Instant Notes in Immunology



Peter M Lydyard Royal Free & Univ. College Medical School, UK, **Nina Porakishvili**, **Michael F Cole**

Series: *Instant Notes*

Instant Notes in Immunology, Fourth Edition, is the perfect text for science undergraduates and medical students looking for a concise introduction to the subject, or a study guide to use before examinations. Thoroughly updated in all areas, especially in mucosal immunity, regulation of the immune response and cancer immunotherapy, each topic begins with a summary of essential facts, an ideal revision checklist followed by a description of the subject that focuses on core information, with clear, simple diagrams easy for students to understand and recall in essays and exams.

Taylor & Francis
May 2026 : 502pp
Pb: 978-1-032-56044-1 : **£27.99**
Hb: 978-1-032-56045-8 : **£200**
eBook: 978-1-003-43352-1

* For **full contents** and more information, visit: www.routledge.com/9781032560441

5TH EDITION

Instant Notes in Microbiology



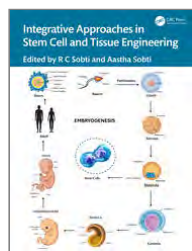
Caroline Griffiths, **Shirley McCready**

Instant Notes in Microbiology, Fifth Edition, is the perfect text for undergraduates looking for a concise introduction to the subject, or a study guide to use before examinations. Each topic begins with a summary of essential facts - an ideal revision checklist - followed by a description of the subject that focuses on core information, with simple diagrams that are easy for students to understand and recall in exams. Thoroughly updated, there is new material about food microbiology and water safety, biofuels, and the essentials of environmental microbiology, and more reference to the human microbiome. Metagenomics, next generation sequencing, and CRISPR are explained.

CRC Press
November 2026 : 504pp
Pb: 978-1-032-97690-7 : **£27.99**
Hb: 978-1-032-97052-3 : **£200**

* For **full contents** and more information, visit: www.routledge.com/9781032976907

Integrative Approaches in Stem Cell and Tissue Engineering



Edited by **R C SOBTI**, **Aastha Sobti**

This book offers a comprehensive overview of fundamental principles and the latest applications in cell biology and regenerative medicine, beginning with the foundational concepts of cell theory. It discusses the various types of cells and their defining characteristics, and dynamic processes of cell division, differentiation, dedifferentiation, proliferation, and apoptosis.

CRC Press
August 2026 : 352pp
Hb: 978-1-032-85314-7 : **£170**

* For **full contents** and more information, visit: www.routledge.com/9781032853147

Leishmaniasis

Pathogenesis and Potential Treatment



Edited by **Veer Singh**, **Ashish Kumar**, **Kumar Abhishek**

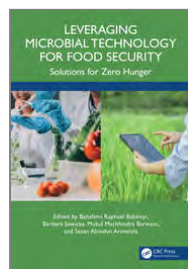
This book covers history, biology, pathogenesis, clinical manifestations, and the latest advancements in diagnosis, treatment, and control strategies against Leishmaniasis. The introductory chapter presents the life cycle of Leishmania parasites, focusing on vector biology and transmission dynamics, while elucidating the mechanisms of infection and disease progression.

CRC Press
July 2026 : 332pp
Hb: 978-1-032-97975-5 : **£115**
eBook: 978-1-003-59645-5

* For **full contents** and more information, visit: www.routledge.com/9781032979755

Leveraging Microbial Technology for Food Security

Solutions for Zero Hunger



Edited by **Babafemi Raphael Babaniyi**, **Barbara Sawicka**, **Mukul Machhindra Barwant**, **Sesan Abiodun Aransiola** Univ. of Abuja

Microorganisms play a vital role in addressing global food security challenges. Leveraging Microbial Technology for Food Security: Solutions to Zero Hunger examines their diverse applications in achieving zero hunger with a focus on practical solutions that transform food production, improve nutrition, and reduce environmental impact. Topics include biofertilization, genetic engineering, waste management, and microbial fermentation for alternative protein sources.

CRC Press
June 2026 : 406pp
Hb: 978-1-041-09589-7 : **£200**
eBook: 978-1-003-65088-1

* For **full contents** and more information, visit: www.routledge.com/9781041095897

Lignocellulosic Waste Management

Climate Change and Sustainability Perspectives



Edited by **Sunita Varjani**, **Carol S. K. LIN**, **Ashok Pandey**, **Xuan-Thanh Bui**

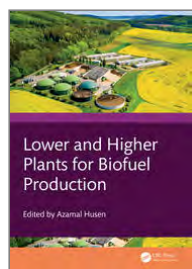
Series: *Sustainable Industrial and Environmental Bioprocesses*

This book addresses the challenges and opportunities associated with the management of lignocellulosic waste in the context of climate change and sustainability. The book is divided into three sections, exploring the potential of lignocellulosic waste biorefineries, examining waste management strategies in the face of climate change, and providing insightful case studies showcasing innovative waste management systems.

CRC Press
October 2026 : 240pp
Hb: 978-1-032-63311-4 : **£110**

* For **full contents** and more information, visit: www.routledge.com/9781032633114

Lower and Higher Plants for Biofuel Production



Edited by **Azamal Husen** Wolaita Sodo University, Ethiopia

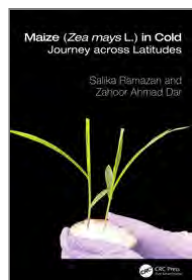
The global energy sector is rapidly evolving in response to climate change, environmental concerns, and the depletion of fossil fuels. Biofuels, particularly those derived from plant-based sources, offer a renewable and cleaner alternative that can integrate into existing energy systems with minimal disruption. *Lower and Higher Plants for Biofuel Production*, explores the untapped potential of both microalgae and macroalgae (lower plants), as well as oilseed crops and high-biomass grasses (higher plants), as sustainable feedstocks.

CRC Press
May 2026 : 344pp
Hb: 978-1-032-96657-1 : £180
eBook: 978-1-003-60016-9

* For full contents and more information, visit: www.routledge.com/9781032966571

Maize (Zea mays L.) in Cold

Journey across Latitudes



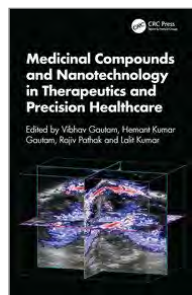
Edited by **Salika Ramazan , Zahoor Ahmad Dar**

Maize (Zea mays L.) in Cold: Journey Across Latitudes presents a compelling exploration of how one of the world's most vital crops has expanded from its tropical origins to endure and thrive in cold and temperate regions. As agriculture increasingly faces the challenges of climate variability and low temperature extremes, this book offers a timely and comprehensive scientific account of maize's resilience to chilling stress. Intended for researchers, maize breeders, plant biologists, agronomists, and postgraduate students, this volume also offers valuable insights for agricultural planners and policymakers working in cold-prone agro-climatic zones.

CRC Press
July 2026 : 226pp
Hb: 978-1-041-06151-9 : £115

* For full contents and more information, visit: www.routledge.com/9781041061519

Medicinal Compounds and Nanotechnology in Therapeutics and Precision Healthcare



Edited by **Vibhav Gautam , Hemant Kumar Gautam , Rajiv Pathak , Lalit Kumar**

This book reviews the evolution, development, and application of medicinal compounds, beginning with their historical context and advancing to modern innovations. The book describes therapeutic potential of bioactive compounds from microorganisms, the role of antioxidants and anti-inflammatory agents in managing chronic diseases, and the use of small molecules in pain management and mental health care.

CRC Press
November 2026 : 400pp
Hb: 978-1-041-22584-3 : £110

* For full contents and more information, visit: www.routledge.com/9781041225843

Metagenomics for Legume Crop Improvement



Edited by **Anil Kumar Singh , Alok Ranjan**

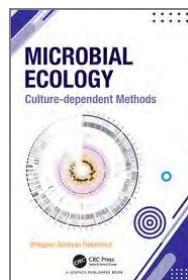
Metagenomics for Legume Crop Improvement offers a comprehensive and timely exploration of the enormous potential hidden within legume-associated microbial communities. Legumes play a crucial role in global food security and sustainable agriculture due to their natural symbiosis with nitrogen-fixing and plant growth-promoting microbes. Yet, despite their significance, the microbiomes surrounding legumes remain poorly understood.

CRC Press
August 2026 : 336pp
Hb: 978-1-041-22649-9 : £115

* For full contents and more information, visit: www.routledge.com/9781041226499

Microbial Ecology

Culture-dependent Methods



Edited by **Bhagwan Narayan Rekadwad** Yenepoya Research Centre, India

This book is a comprehensive guide to studying microbial diversity. It details methods for sampling and characterizing microbes from soil and water, covering both physicochemical and microbiological aspects. It delves into the cultivation, isolation, and preservation of bacteria and archaea, including cryopreservation and freeze-drying. Subsequent chapters focus on molecular techniques like DNA extraction, PCR, 16S rRNA gene sequencing, and bioinformatic analysis, along with advanced methods such as MLST, qPCR, and Whole Genome Sequencing. The book also covers sequence deposition and provides protocols for DGGE, making it an invaluable resource for microbial ecologists.

CRC Press
May 2026 : 306pp
Hb: 978-1-041-13696-5 : £105
eBook: 978-1-003-68185-4

* For full contents and more information, visit: www.routledge.com/9781041136965

Microbiome Innovations

Advancing Sustainable Agriculture



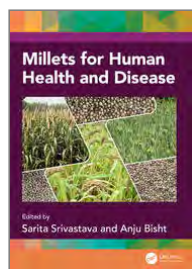
Edited by **Vijai Singh , Indra Mani**

This book explores the diversity of microbiomes, ecological significance, and applications in agriculture, human health, and environmental sustainability. The introductory chapter provides state-of-the-art methods for studying microbiomes, including microscopy, culturing techniques, and molecular biology tools, while examining how AI, machine learning, and computational biology are revolutionizing microbiome research.

CRC Press
September 2026 : 400pp
Hb: 978-1-032-89749-3 : £110

* For full contents and more information, visit: www.routledge.com/9781032897493

Millets for Human Health and Disease



Edited by **Sarita Srivastava , Anju Bisht**

This book provides a comprehensive overview of the nutritional, therapeutic, and functional potential of millets, highlighting their role in promoting human health and preventing disease. The chapters cover the historical significance, classification, and compositional attributes of millets, including their macro- and micronutrient content, phytochemicals, and processing techniques.

CRC Press

August 2026 : 264pp

Hb: 978-1-041-16848-5 : £110

* For full contents and more information, visit: www.routledge.com/9781041168485

Molecular Innovations in Cancer

Genomics, Microbiomics Approaches



Edited by **Surajit Pathak , Antara Banerjee**

This book offers a comprehensive overview of the latest breakthroughs transforming cancer research and treatment. Integrating insights from molecular biology, pharmacology, microbiomics, and artificial intelligence, this volume highlights how cross-disciplinary innovations are redefining oncology.

CRC Press

May 2026 : 264pp

Hb: 978-1-041-08211-8 : £115

eBook: 978-1-003-64430-9

* For full contents and more information, visit: www.routledge.com/9781041082118

Molecular Marker-Assisted Improvement and Production of Medicinal Plants



Edited by **Arpan Modi , Megha Barot , Sachidanand Singh** Pandit Deendayal Energy University, India, **Azamal Husen** Wolaita Sodo University, Ethiopia

Series: *Exploring Medicinal Plants*

This volume explores the fascinating world of plant-based bioactive compounds that have influenced healthcare systems across centuries. From ancient Ayurvedic and Chinese traditions to modern biotechnology, it reveals how nature's pharmacy continues to inspire the development of medicines, nutraceuticals, and cosmeceuticals. It highlights the incredible diversity of medicinal plants and their secondary metabolites, such as alkaloids, flavonoids, terpenoids, and glycosides, which have led to the discovery of many important therapeutic agents.

CRC Press

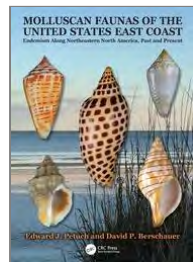
August 2026 : 220pp

Hb: 978-1-032-89417-1 : £115

* For full contents and more information, visit: www.routledge.com/9781032894171

Molluscan Faunas of the United States East Coast

Endemism Along Northeastern North America, Past and Present



Edited by **Edward J. Petuch** Florida Atlantic Univ., **David P. Berschauer** San Diego Shell Club

For the first time in any book on American shells, the most prevalent mollusk-bearing ecosystems of the East Coast are described and their resident molluscan faunas discussed in detail. The living and fossil molluscan faunas from the entire coast are illustrated on 128 plates, showing some of the most interesting and beautiful shells that ever evolved anywhere in the world's oceans. This overview of the biodiversity of the coastal faunas can be used as a baseline for any future biological surveys, establishing the composition of the faunas that are now being impacted by global climate changes and higher marine temperatures.

CRC Press

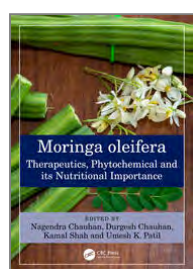
August 2026 : 232pp

Hb: 978-1-041-22571-3 : £130

* For full contents and more information, visit: www.routledge.com/9781041225713

Moringa oleifera

Therapeutics, Phytochemical and its Nutritional Importance



Edited by **Nagendra Singh Chauhan , Durgesh Nandini Chauhan , Kamal Shah** GLA University, Mathura, **Umesh K. Patil**

Moringa oleifera is a small plant found around the globe. It is known as a miracle tree, due to its diverse medicinal uses. The various part of the plant like root, stem, leaf, flower, fruit and seed have some nutritive values. This plant is rich in phenolic contents, flavonoids, carotenoids, proteins, vitamins, fatty acids, various micro or macro nutrients. This book highlights the nutritional, pharmaceutical and medicinal values of Moringa oleifera and its utilization as nutraceuticals and functional foods. It covers the current importance of Moringa oleifera nutritional properties, pharmacological importance, and biological activities.

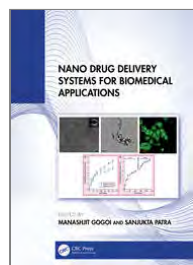
CRC Press

August 2026 : 416pp

Hb: 978-1-041-02140-7 : £120

* For full contents and more information, visit: www.routledge.com/9781041021407

Nano Drug Delivery Systems for Biomedical Applications



Edited by **Manashjit Gogoi , Sanjukta Patra**

This edited book provides a comprehensive exploration of cutting-edge nanomedicine, bringing together leading research on the design and application of nanoparticles and nanomaterials across a wide spectrum of biomedical fields.

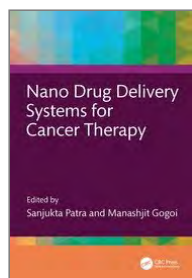
CRC Press

July 2026 : 320pp

Hb: 978-1-032-75232-7 : £115

* For full contents and more information, visit: www.routledge.com/9781032752327

Nano Drug Delivery Systems for Cancer Therapy



Edited by **Sanjukta Patra, Manashjit Gogoi**

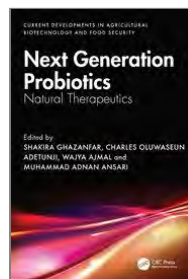
This book explores cutting-edge research and applications in the field of nanomedicines for cancer imaging, diagnosis, and therapy. It begins by highlighting the pivotal role of engineered silica-based nanoparticles in the precise delivery of anticancer drugs.

CRC Press
October 2026 : 344pp
Hb: 978-1-041-36262-3 : £115

* For full contents and more information, visit: www.routledge.com/9781041362623

Next Generation Probiotics

Natural Therapeutics, Volume 2



Edited by **Shakira Ghazanfar, Charles Oluwaseun Adetunji** Edo University, Iyamho, Nigeria, **Wajya Ajmal, Muhammad Adnan Ansari**

Series: *Current Developments in Agricultural Biotechnology and Food Security*

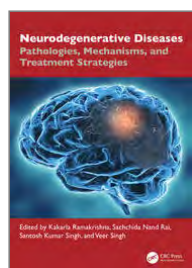
Next Generation Probiotics: Natural Therapeutics presents a comprehensive and forward-looking exploration of probiotics as scientifically grounded natural therapeutics in modern health and disease management. Building on advances in microbiome science, biotechnology, and computational biology, this volume examines how next-generation probiotics are discovered, designed, evaluated, and applied. The book bridges foundational probiotic research with emerging technologies such as machine learning, genomics, and genetic engineering, highlighting what distinguishes next-generation probiotics from traditional formulations.

CRC Press
August 2026 : 248pp
Hb: 978-1-032-50822-1 : £115

* For full contents and more information, visit: www.routledge.com/9781032508221

Neurodegenerative Diseases

Pathologies, Mechanisms, and Treatment Strategies



Edited by **Kakarla Ramakrishna, Sachchida Nand Rai, Santosh Kumar Singh, Veer Singh**

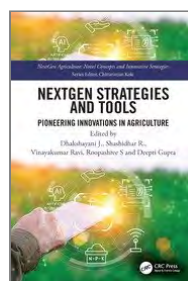
This book delves into the complexities of brain health, aging, and neurodegeneration, exploring the varied roles that genetic, environmental, and lifestyle factors play in shaping brain health. It examines their contributions to the development and progression of neurodegenerative diseases.

CRC Press
May 2026 : 194pp
Hb: 978-1-032-87024-3 : £115
eBook: 978-1-003-53051-0

* For full contents and more information, visit: www.routledge.com/9781032870243

NextGen Strategies and Tools

Pioneering Innovations in Agriculture



Edited by **Dhakshayani J, Shashidhar R, Vinayakumar Ravi, Roopashree S, Deepti Gupta**

Series: *Nextgen Agriculture*

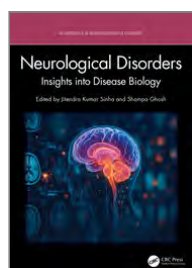
NextGen Strategies and Tools: Pioneering Innovations in Agriculture is a systematic, application-oriented examination of next-generation strategies and technologies that drive innovation in agriculture. The book focuses on integrating Artificial Intelligence (AI), Internet of Things (IoT), deep learning, robotics, and smart sensing technologies to address challenges in sustainability, precision farming, and agricultural productivity.

CRC Press
September 2026 : 208pp
Hb: 978-1-041-00836-1 : £140

* For full contents and more information, visit: www.routledge.com/9781041008361

Neurological Disorders

Insights into Disease Biology



Edited by **Jitendra Kumar Sinha, Shampa Ghosh**

Series: *Neuroscience of Neurodegenerative Disorders*

As the burden of neurological conditions continues to grow globally, bridging the gap between neuroscience and medicine becomes imperative. This book provides a roadmap for researchers, neuroscientists, physicians, and healthcare professionals seeking to comprehend the underlying biological mechanisms of these disorders. It serves as a valuable resource for students, educators, and anyone intrigued by the fascinating intersection of neuroscience and disease.

CRC Press
July 2026 : 368pp
Hb: 978-1-032-81343-1 : £170

* For full contents and more information, visit: www.routledge.com/9781032813431

Next-Generation Approaches in Malaria Research

Molecular Strategies and Translational Insights



Gourab Paul, Mohammed Tarique

This book presents the molecular basis, host-parasite interactions, and translational advances in malaria research, with a specific focus on *Plasmodium falciparum*. It examines parasite pathogenesis, including life cycle progression, erythrocyte invasion, cytoadherence, and immune evasion mechanisms that drive clinical disease.

CRC Press
August 2026 : 232pp
Hb: 978-1-041-14473-1 : £110

* For full contents and more information, visit: www.routledge.com/9781041144731

Next-Generation Computational Drug Discovery



Edited by **Mohammad Kalim Ahmad Khan ,
Mohammed Tarique**

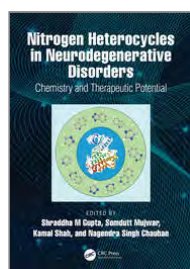
This book presents the fundamental principles, contemporary methodologies, and practical applications that define modern computer-aided drug design. It explores the integration of Cryo-EM structures, AlphaFold predictions, and homology modeling to expand structural insight into biologically relevant targets.

CRC Press
August 2026 : 256pp
Hb: 978-1-041-14042-9 : £110

* For full contents and more information, visit: www.routledge.com/9781041140429

Nitrogen Heterocycles in Neurodegenerative Disorders

Chemistry and Therapeutic Potential



Edited by **Shraddha Manish Gupta** UPES Dehradun, India
Somdukt Mujwar , Kamal Shah GLA University,
Mathura, **Nagendra Singh Chauhan** Drugs Testing
Laboratory Avam Anusandhan Kendra, Raipur

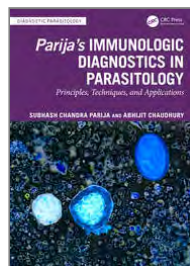
Nitrogen Heterocycles in Neurodegenerative Disorders: Chemistry and Therapeutic Potential deliver a comprehensive and research-driven exploration of the chemistry, biological relevance, and translational promise of nitrogen-based heterocyclic compounds. Distinct in its integrative approach, the book bridges synthetic chemistry, molecular pharmacology, and clinical perspectives. It not only discusses established heterocyclic frameworks but also critically evaluates emerging scaffolds, structure–activity relationships, and challenges in blood–brain barrier penetration—offering readers both foundational knowledge and forward-looking insights.

CRC Press
October 2026 : 264pp
Hb: 978-1-041-29937-0 : £115

* For full contents and more information, visit: www.routledge.com/9781041299370

Parija's Immunologic Diagnostics in Parasitology

Principles, Techniques, and Applications



Subhash Chandra Parija , Abhijit Chaudhury

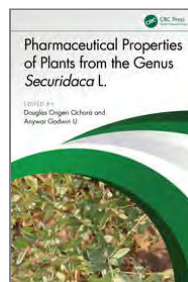
Series: *Diagnostic Parasitology*

The field of Parasitology has seen tremendous progress in the last 2-3 decades with the advent of molecular biology and its application to the study of parasites. This has opened new vistas in the understanding of the taxonomy, pathogenesis, immunological mechanisms of many parasites, along with designing of improved diagnostic tests and application of molecular epidemiology in tracking and controlling these diseases.

CRC Press
August 2026 : 192pp
Hb: 978-1-041-08199-9 : £120

* For full contents and more information, visit: www.routledge.com/9781041081999

Pharmaceutical Properties of Plants from the Genus Securidaca L.



Edited by **Douglas Onger Ochora , Godwin Anywar U**

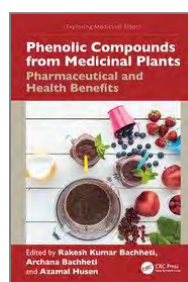
This book presents the taxonomy, ethnobotany, pharmacological properties, and therapeutic potential of *Securidaca longipedunculata*. The introductory chapter highlights its significance in traditional medicine and contemporary scientific research.

CRC Press
May 2026 : 196pp
Hb: 978-1-032-89290-0 : £120
eBook: 978-1-003-54446-3

* For full contents and more information, visit: www.routledge.com/9781032892900

Phenolic Compounds from Medicinal Plants

Pharmaceutical and Health Benefits



Edited by **Rakesh Kumar Bachheti** Addis Ababa Science and Technology University, Ethiopia, **Archana Bachheti** Graphic Era University, India, **Azamal Husen** Wolaita Sodo University, Ethiopia

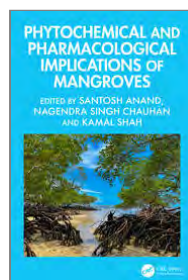
Series: *Exploring Medicinal Plants*

Medicinal plants have been trusted for centuries as natural sources of healing. Among their many bioactive constituents, phenolic compounds stand out for their remarkable diversity and wide-ranging health benefits. *Phenolic Compounds from Medicinal Plants: Pharmaceutical and Health Benefits* illustrates the science of these compounds, showing how they connect traditional plant wisdom with modern pharmaceutical research.

CRC Press
May 2026 : 358pp
Hb: 978-1-032-85401-4 : £180
eBook: 978-1-003-52767-1

* For full contents and more information, visit: www.routledge.com/9781032854014

Phytochemical and Pharmacological Implications of Mangroves



Edited by **Santosh Anand , Nagendra Singh Chauhan** Drugs Testing Laboratory Avam Anusandhan Kendra, Raipur, **Kamal Shah** GLA University, Uttar Pradesh, India

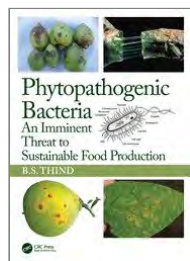
Phytochemical and Pharmacological Implications of Mangroves presents a comprehensive exploration of the chemical and therapeutic attributes of mangroves and their associated microbiota. This volume integrates fundamental and applied research to highlight the significance of mangrove-derived natural products in drug discovery and biomedical innovation.

CRC Press
October 2026 : 472pp
Hb: 978-1-041-02135-3 : £205

* For full contents and more information, visit: www.routledge.com/9781041021353

Phytopathogenic Bacteria

An Imminent Threat to Sustainable Food Production



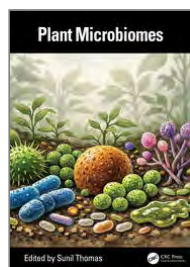
B. S. Thind Punjab Agricultural University, Ludhiana, India

The field of Plant Bacteriology/Phytopathology is rapidly advancing and changing due to recent advances in genomics and molecular plant bacteriology as well as global spread of bacterial plant diseases and emergence of new bacterial plant pathogens. So, there is a need to integrate understanding of bacterial taxonomy, genomics and basic plant bacteriology that reflects state of the art knowledge about plant-disease mechanisms. In the present book, first eight chapters contain general information about bacteria, classification of plant pathogenic bacteria and molecular mechanisms of virulence and pathogenesis of phytopathogenic bacteria.

CRC Press
July 2026 : 478pp
Hb: 978-1-041-15914-8 : £160

* For full contents and more information, visit: www.routledge.com/9781041159148

Plant Microbiomes



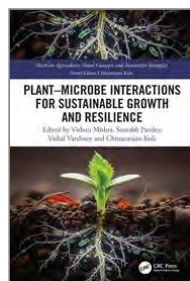
Edited by **Sunil Thomas**

The relationships between plants and their microbiomes is complex and pervasive. In a real sense, the ecology, physiology and evolution of plants in inextricably linked to microbial partners. This volume reviews and summarizes the plant microbiomes in a variety of plants and plant structures. Topics include root microbes and mycorrhizae, various grain and fruit microbiomes, and natural ecosystem microbial communities.

CRC Press
September 2026 : 280pp
Hb: 978-1-041-07248-5 : £170

* For full contents and more information, visit: www.routledge.com/9781041072485

Plant-Microbe Interactions for Sustainable Growth and Resilience



Edited by **Vishnu Mishra, Saurabh Pandey, Vishal Varshney, Chittaranjan Kole**

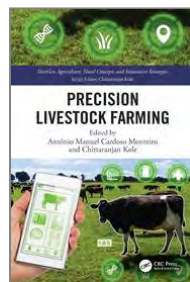
Series: Nextgen Agriculture

This book presents a basic understanding of host-microbe interactions to more advanced topics such as molecular mechanisms, small RNA regulation, and practical applications to implement for sustainable agriculture. Chapters include coverage on various specialized topics, such as symbiotic nitrogen fixation, engineering nodule development, plant immunity, and microbial-induced systemic resistance. This information is an invaluable tool for advancing agricultural practices and working towards food security.

CRC Press
May 2026 : 394pp
Hb: 978-1-032-98982-2 : £180

eBook: 978-1-003-60808-0
* For full contents and more information, visit: www.routledge.com/9781032989822

Precision Livestock Farming



Edited by **António Monteiro, Chittaranjan Kole**

Series: Nextgen Agriculture

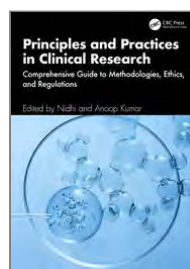
Precision Livestock Farming examines how digital technologies are reshaping animal production in response to the growing demands of food security, sustainability, and animal welfare. Moving beyond herd-level observation, it presents a data-driven approach to monitoring individual animals and managing farm systems with greater precision.

CRC Press
November 2026 : 216pp
Hb: 978-1-041-02609-9 : £140

* For full contents and more information, visit: www.routledge.com/9781041026099

Principles and Practices in Clinical Research

Comprehensive Guide to Methodologies, Ethics, and Regulations



Edited by **Nidhi Bharal, Anoop Kumar**

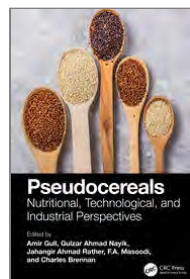
This book comprehensively reviews fundamental principles, ethical considerations, regulatory frameworks, and emerging trends in clinical research. The introductory chapters explore the fundamentals of clinical research, its historical context, and the pivotal role of key stakeholders.

CRC Press
August 2026 : 208pp
Hb: 978-1-032-87518-7 : £110

* For full contents and more information, visit: www.routledge.com/9781032875187

Pseudocereals

Nutritional, Technological, and Industrial Perspectives



Edited by **Amir Gull, Gulzar Ahmad Nayik Govt. Deg Col Shopian, Jahangir Ahmad Rather, F.A. Masoodi, Charles Brennan**

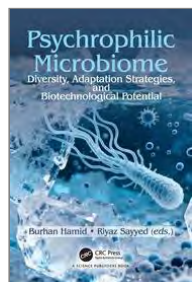
As the global demand for sustainable and nutrient-rich crops grows, pseudocereals are emerging as a valuable alternative to traditional cereals. This book brings together recent scientific advances and practical insights on the chemistry, nutritional quality, processing technologies, and industrial applications of pseudocereals such as quinoa, amaranthus, buckwheat, and chia. The book addresses consumer acceptance, market strategies, and safety considerations, offering a balanced perspective that connects traditional knowledge with modern food science.

CRC Press
May 2026 : 248pp
Hb: 978-1-032-95423-3 : £115

eBook: 978-1-003-58485-8
* For full contents and more information, visit: www.routledge.com/9781032954233

Psychrophilic Microbiome

Diversity, Adaptation Strategies, and Biotechnological Potential

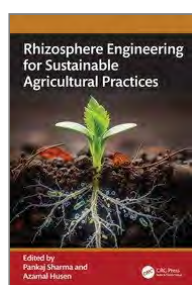


Edited by **Burhan Hamid , Riyaz Sayyed**

This book provides comprehensive knowledge for students, research scholars, and scientists on the psychrophilic microbiome, encompassing its diversity, molecular mechanisms of cold adaptation, and potential applications in biotechnology. It also examines the physiological and molecular strategies employed by psychrophiles to survive and function in extremely low-temperature environments, supported by scientific evidences.

CRC Press
June 2026 : 412pp
Hb: 978-1-041-14546-2 : **£105**
eBook: 978-1-003-71700-3
* For full contents and more information, visit: www.routledge.com/9781041145462

Rhizosphere Engineering for Sustainable Agricultural Practices

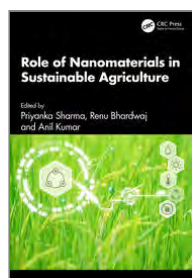


Edited by **Pankaj Sharma , Azamal Husen** Wolaita Sodo University, Ethiopia

Rhizosphere Engineering for Sustainable Agricultural Practices provides insights into one of the most powerful, yet underrated, structures in agriculture, the dynamic world surrounding plant roots. As global demands for food rise, along with increased environmental stress, the book demonstrates how soil microbial communities create natural potential for resilient and sustainable crop production. The book helps readers understand how beneficial microbes act as natural allies, reducing reliance on chemical inputs and supporting eco-friendly agricultural practices.

CRC Press
August 2026 : 428pp
Hb: 978-1-032-97610-5 : **£205**
* For full contents and more information, visit: www.routledge.com/9781032976105

Role of Nanomaterials in Sustainable Agriculture



Edited by **Priyanka Sharma , Renu Bhardwaj** Guru Nanak Dev University, Amritsar, **Anil Kumar**

This book provides a comprehensive and up-to-date elucidation of nanomaterial in sustainable agriculture with a strong emphasis on green synthesis approaches and their applications. The distinguishing feature of this book lies in its integrative action, plant–nanomaterial interactions, uptake and translocation, plant responses at cellular, physiological and biochemical levels.

CRC Press
September 2026 : 264pp
Hb: 978-1-032-65940-4 : **£115**
* For full contents and more information, visit: www.routledge.com/9781032659404

Rye Cereal

Production, Cultivation, Characterization, and Industrial Applications



Edited by **Ali Ikram , Tabussam Tufail** The University of Lahore, Pakistan, **Gulzar Ahmad Nayik** Govt. Deg Col Shopian

The book represents a comprehensive and authoritative compilation aimed at addressing the growing demand for in-depth knowledge on rye cereal. Rye, often overshadowed by other cereal grains, has witnessed a resurgence in interest due to its unique nutritional profile, resilience to adverse environmental conditions, and diverse industrial applications.

CRC Press
September 2026 : 234pp
Hb: 978-1-032-95624-4 : **£115**
* For full contents and more information, visit: www.routledge.com/9781032956244

Soil and Human Health

Food as Medicine



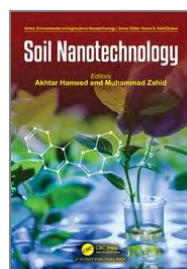
Edited by **Rattan Lal , Marium Husain**

Series: Advances in Soil Science

The intersection of soil health and human vitality is a critical yet overlooked aspect of global wellbeing. Soil and Human Health: Food as Medicine examines the soil-human health nexus, offering a comprehensive synthesis of research and insights that highlight the connections between soil processes, food systems, and human health.

CRC Press
May 2026 : 260pp
Hb: 978-1-032-72676-2 : **£200**
eBook: 978-1-003-46974-2
* For full contents and more information, visit: www.routledge.com/9781032726762

Soil Nanotechnology



Edited by **Akhtar Hameed** MNS University of Agriculture, Pakistan, **Muhammad Zahid**

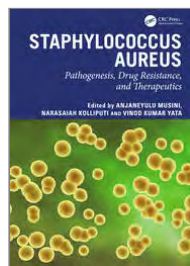
Series: Environmental and Agricultural Nanotechnology

Soil Nanotechnology is a pioneering volume that explores the cutting-edge intersection of nanoscience and soil-based agricultural sustainability. This book delivers an in-depth analysis of nanomaterials for soil fertility enhancement, pollution remediation, water purification, crop productivity, and disease management. As the first comprehensive book of its kind, it highlights innovative, eco-friendly solutions and future prospects for nanotechnology in soil perspective, making it an essential reference for addressing the challenges of modern agriculture and environmental protection.

CRC Press
June 2026 : 354pp
Hb: 978-1-032-87829-4 : **£130**
eBook: 978-1-003-55835-4
* For full contents and more information, visit: www.routledge.com/9781032878294

Staphylococcus aureus

Pathogenesis, Drug Resistance, and Therapeutics



Edited by **Anjaneyulu Musini , Narasaiah Kolliputi , Vinod Kumar Yata**

This book presents a comprehensive overview of intricate mechanisms of virulence, antimicrobial resistance, immune evasion, and biofilm formation of *Staphylococcus aureus*. It provides insights into mechanisms by which *S. aureus* acquires and sustains drug resistance, including gene mutation, efflux pumps, and horizontal gene transfer.

CRC Press

May 2026 : 310pp

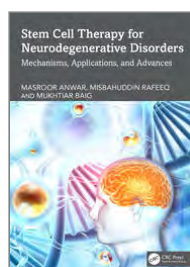
Hb: 978-1-041-08813-4 : £115

eBook: 978-1-003-64707-2

* For full contents and more information, visit: www.routledge.com/9781041088134

Stem Cell Therapy for Neurodegenerative Disorders

Mechanisms, Applications, and Advances



Masroor Anwar , Misbahuddin Rafeeq , Mukhtiar Baig

This book comprehensively reviews the role of stem cell therapy against various neurodegenerative disorders. The initial chapters present different neurodegenerative disorders and discuss the application of stem cell therapy for Alzheimer's Disease, Parkinson's Disease, Amyotrophic Lateral Sclerosis (ALS), and Huntington's Disease.

CRC Press

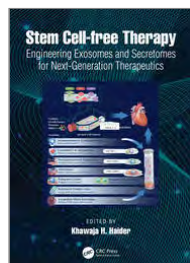
August 2026 : 216pp

Hb: 978-1-032-94984-0 : £110

* For full contents and more information, visit: www.routledge.com/9781032949840

Stem Cell-free Therapy

Engineering Exosomes and Secretomes for Next-Generation Therapeutics



Edited by **Khawaja H. Haider**

This book provides a comprehensive review of the advancements in cell-free therapeutic applications, focusing on the biological and biomedical potential of mesenchymal stem cell (MSC)-derived secretome and extracellular vesicles (EVs) in disease treatment and tissue repair. It examines the mechanistic functions of MSC-derived biomolecules and the regulatory landscape shaping their development.

CRC Press

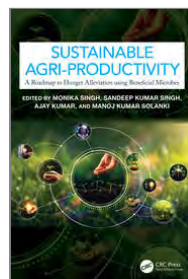
September 2026 : 728pp

Hb: 978-1-041-10100-0 : £120

* For full contents and more information, visit: www.routledge.com/9781041101000

Sustainable Agri-Productivity

A Roadmap to Hunger Alleviation using Beneficial Microbes



Edited by **Monika Singh , Sandeep Kumar Singh , Ajay Kumar Amity University, Noida, India, Manoj Kumar Solanki**

Sustainable agriculture is at a critical crossroads as global food demand rises alongside challenges such as soil degradation, climate change, and declining resource efficiency. "Sustainable Agri-Productivity: A Roadmap to Hunger Alleviation using Beneficial Microbes" addresses these pressing concerns by presenting microbes as key drivers of resilient and productive agro-ecosystems.

CRC Press

October 2026 : 384pp

Hb: 978-1-041-12379-8 : £115

* For full contents and more information, visit: www.routledge.com/9781041123798

Sustainable Biomanufacturing

Innovations for a Circular Bioeconomy and Industry 5.0



Edited by **Vinod Kumar Garg , Navish Kataria , Ashok Pandey**

Series: Sustainable Industrial and Environmental Bioprocesses

This book discusses the role of sustainable biomanufacturing in advancing Industry 5.0, achieving carbon neutrality, and fostering innovation in diverse sectors. It emphasizes the integration of cutting-edge technologies, such as artificial intelligence and machine learning, with sustainable practices to address global challenges in manufacturing, environmental conservation, and resource management.

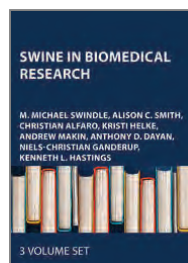
CRC Press

September 2026 : 248pp

Hb: 978-1-041-06799-3 : £120

* For full contents and more information, visit: www.routledge.com/9781041067993

Swine in Biomedical Research



Michael Swindle Medical University of South Carolina, **Alison C. Smith** Medical University of South Carolina, Charleston, USA, **Christian Alfaro , Kristi Helke** South Carolina's Medical Univ., **Andrew Makin , Anthony D. Dayan** London, UK, **Niels-Christian Ganderup , Kenneth L. Hastings** Sanofi-aventis, Bethesda, Maryland, USA

Together, these three seminal reference works provide all the information needed to work with pigs in laboratory settings. Since it first published three decades ago, *Swine in the Laboratory* continues to be the most authoritative source of scientific and technical information on the use of domestic and miniature swine in research. *Anatomy and Histology of the Pig* covers the major areas of interest in swine, including cardiovascular, digestive, neurologic, and thoracic structures. The second edition of *The Minipig in Biomedical Research* is a comprehensive resource for research scientists on the use of the minipig in basic and applied biomedical research.

CRC Press

May 2026 : 1339pp

Hb: 978-1-041-36847-2 : £500

* For full contents and more information, visit: www.routledge.com/9781041368472

2ND EDITION

The Atlas of European Mammals



Edited by **Anthony J. Mitchell-Jones** The European Mammal Foundation, **Giovanni Amori** CNR-IRET, Italy, **Boris Kryštufek** Natural History Museum, **Ferdia Marnell** Nat. Parks and Wildlife Service, **Svetlana Miteva** The Habitat Foundation, **Alexandra Sallay** BOKU Univ., **Laurent Schley** Nature and Forest, **Johan Thissen** European Mammal Foundation, **Vladimír Vohralík** Chares Univ.

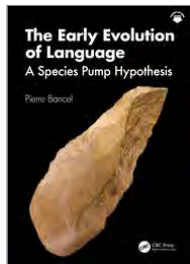
Since 1999, this atlas has proved a valuable resource for mammalogists across the globe. Now thoroughly updated, the new edition has extended the coverage of Europe to include Belarus, Moldova and Ukraine. Specialists have collected distribution data for each country using an agreed species list and a standard mapping system. This landmark volume presents maps of 247 species from 42 countries with more than 125,200 unique records, taking into account recent extinctions to give the most up-to-date picture possible. Accounts for each species include details of taxonomy and variation, habitat, population and international legal and conservation status.

CRC Press
August 2026 : 308pp
Hb: 978-0-367-18686-9 : £200

* For full contents and more information, visit: www.routledge.com/9780367186869

The Early Evolution of Language

A Species Pump Hypothesis



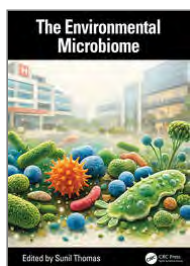
Pierre Bancel

The huge gap between human articulate language and all the communication systems of other living beings has prevented a satisfactory answer to this question up until today. Here, the problem is subdivided into a series of necessarily successive steps. From the climatic oscillations which pumped humans' ape ancestors out of the African rainforest, to the humming stage which still punctuates our conversations today, to the encounter of baby Celeste and his grandpa with a singing cuckoo hiding in the woods, to the emergence and inheritance of kinship terms, then personal pronouns, you are invited to follow this pathfinding quest over 10 million years.

CRC Press
May 2026 : 232pp
Hb: 978-1-041-09180-6 : £160
eBook: 978-1-003-65302-8

* For full contents and more information, visit: www.routledge.com/9781041091806

The Environmental Microbiome



Edited by **Sunil Thomas**

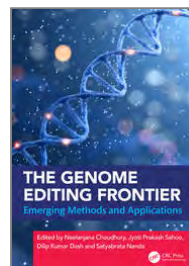
The human microbiome is influenced by the environmental microbiome and its interconnectedness, which recognizes environmental elements as part of a complex ecosystem impacting human health. Microbiomes include species across all major kingdoms, including viruses as well as Archaea, bacteria and microbial eukaryotes. Recent research is rapidly strengthening the appreciation that associated microorganisms make essential contributions to human health and environmental well-being. This volume is an exploration of the environmental microbiome.

CRC Press
September 2026 : 256pp
Hb: 978-1-041-06936-2 : £170

* For full contents and more information, visit: www.routledge.com/9781041069362

The Genome Editing Frontier

Emerging Methods and Applications



Edited by **Neelanjana Choudhury**, **Jyoti Prakash Sahoo**, **Dilip Kumar Dash**, **Satyabrata Nanda**

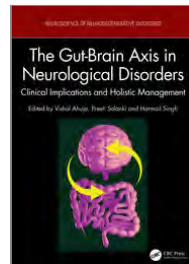
The rapid evolution of biotechnology has ushered in an era in which the genome is no longer viewed as a static blueprint, but as a dynamic and editable system. The Genome Editing Frontier: Emerging Methods and Applications offers a comprehensive and forward-looking exploration of this transformation, tracing the field's progression from foundational molecular tools to today's high-precision, AI-integrated genome engineering platforms.

CRC Press
September 2026 : 264pp
Hb: 978-1-041-23040-3 : £115

* For full contents and more information, visit: www.routledge.com/9781041230403

The Gut-Brain Axis in Neurological Disorders

Clinical Implications and Holistic Management



Edited by **Vishal Ahuja**, **Preeti Solanki**, **Harmail Singh**

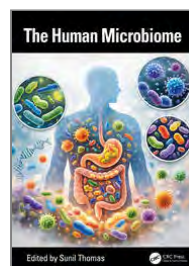
Series: Neuroscience of Neurodegenerative Disorders

The human gut microbiome, is a diverse population of microorganisms. Advanced techniques are aiding in identifying and establishing the quantitative and qualitative metabolic profiles, activity profiles and complex interactions between gut microbiota and many physiological ailments including obesity, intestinal bowel diseases, type 2 diabetes and several types of cancers. Internal microbiota composition might become one of the critical factors in maintain good health as well as crucial indicator of disease theranostics. This book explores all the dimensions for microbiota composition and provides insight into the available strategies for treatment and prevention of diseases.

CRC Press
August 2026 : 274pp
Hb: 978-1-041-00522-3 : £145

* For full contents and more information, visit: www.routledge.com/9781041005223

The Human Microbiome



Edited by **Sunil Thomas**

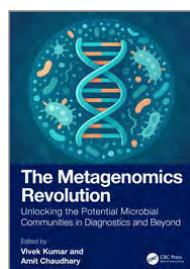
The relationship between humans and their resident microbiomes is complex and influences many aspects of health and disease. Microbes cover all surfaces inside and outside the human body. Diabetes, obesity, food allergies and many other conditions can be exacerbated or ameliorated by microbiomes. This volume includes chapters devoted to the myriad aspects of the microbiome of humans.

CRC Press
October 2026 : 440pp
Hb: 978-1-041-06513-5 : £205

* For full contents and more information, visit: www.routledge.com/9781041065135

The Metagenomics Revolution

Unlocking the Potential Microbial Communities in Diagnostics and Beyond



Edited by **Vivek Kumar , Amit Chaudhary**

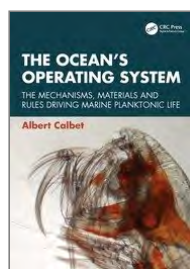
The Metagenomics Revolution serves as a comprehensive resource covering the principles, methodologies, and cutting-edge advancements in metagenomics. It bridges the gap between theoretical understanding and practical applications, making it an essential guide for researchers, clinicians, engineers, and industry professionals. The primary aim is to equip readers with a thorough understanding of metagenomics, from sample collection and sequencing technologies to computational tools and data interpretation. It provides a framework for analyzing microbial datasets, highlighting best practices in bioinformatics pipelines, multi-omics integration, and AI-driven microbial analysis.

CRC Press
May 2026 : 312pp
Hb: 978-1-041-13514-2 : £180
eBook: 978-1-003-67015-5

* For full contents and more information, visit: www.routledge.com/9781041135142

The Ocean's Operating System

The Mechanisms, Materials, and Rules Driving Marine Planktonic Life



Albert Calbet Institute of Marine Sciences, CSIC, Barcelona

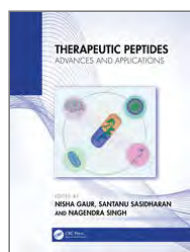
This mechanism-first guide to how the sea actually works teaches the rules—light, viscosity, turbulence, temperature, oxygen, pressure, and elemental budgets—and the devices organisms use to play by them: filters and houses, pellets and gels, pigments and transporters, migrations and dormancy. Written in clear, quantitative prose with minimal math, this book equips researchers, advanced students, modelers, and managers to move from a handful of measurements to community strategies, carbon routing, and flux. A transferable toolkit to predict “who will win, what will happen, and why,” this is your field manual for reading, and using, the code that runs the ocean.

CRC Press
July 2026 : 170pp
Pb: 978-1-041-27182-6 : £52.99
Hb: 978-1-041-27183-3 : £150

* For full contents and more information, visit: www.routledge.com/9781041271826

Therapeutic Peptides

Advances and Applications



Edited by **Nisha Gaur , Santanu Sasidharan , Nagendra Singh**

This book comprehensively reviews structure, optimization strategies, and function of natural and synthetic peptides. The initial section presents foundational aspects of therapeutic peptides, examining the potential of bioactive peptides derived from natural sources, it provides insights into the structure-function relationship of therapeutic peptides.

CRC Press
October 2026 : 240pp
Hb: 978-1-032-94316-9 : £110

* For full contents and more information, visit: www.routledge.com/9781032943169

Vegetable Breeding

Principles and Application



Bandan Thapa , Balagani Maruthi , Sourav Roy , Umesh Thapa , Pramod Kumar Pandey

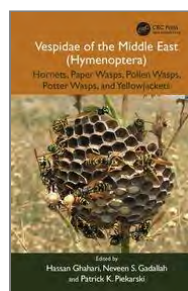
This book addresses vegetable breeding advancements through comprehensive analysis of breeding principles and biotechnological applications. The study covers selection procedures, heterosis breeding, and molecular techniques crucial for understanding modern crop improvement methodologies and developing high-yielding, stress-resistant vegetable varieties for sustainable agriculture. This title has been co-published with Elite Publishing House. T&F does not sell or distribute the print versions in India.

CRC Press
May 2026 : 316pp
Hb: 978-1-041-33129-2 : £115
eBook: 978-1-003-79097-6

* For full contents and more information, visit: www.routledge.com/9781041331292

Vespidae of the Middle East (Hymenoptera)

Hornets, Paper Wasps, Pollen Wasps, Potter Wasps, and Yellowjackets



Edited by **Hassan Ghahari , Neveen S. Gadallah , Patrick K. Piekarski**

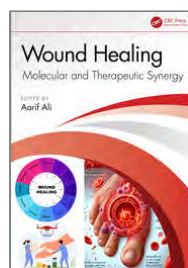
This book presents the first comprehensive treatment of the Vespidae of the Middle East, offering detailed information on 716 valid species and subspecies across 69 genera in four subfamilies: Eumeninae, Masarinae, Polistinae, and Vespinae. It provides complete taxonomic treatment of all subfamilies known from the region, along with insights into their general biology, ecology, and geographic distribution.

CRC Press
August 2026 : 296pp
Hb: 978-1-041-24146-1 : £150

* For full contents and more information, visit: www.routledge.com/9781041241461

Wound Healing

Molecular and Therapeutic Synergy



Edited by **Aarif Ali**

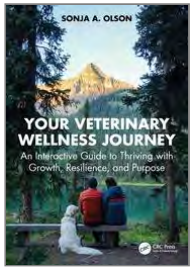
This book discusses the molecular mechanisms, signalling pathways, and emerging technologies in wound healing. The initial chapters present wound classification and examine the important role of signalling pathways and biomarkers in tissue repair.

CRC Press
May 2026 : 322pp
Hb: 978-1-041-08340-5 : £130
eBook: 978-1-003-64495-8

* For full contents and more information, visit: www.routledge.com/9781041083405

Your Veterinary Wellness Journey

An Interactive Guide to Thriving with Growth, Resilience, and Purpose



Sonja A. Olson Florida Univ., College of Vet. Med.

Your Veterinary Wellness Journey builds on the essential work begun in the author's first book, which introduced the care-giving challenges that may impact wellbeing, especially those unique to veterinary environments. This practical sequel capitalizes on collective, compassionate wisdom drawn from a global perspective on what tools, practices, and approaches will inform, prepare, and inspire all members of a veterinary team to be their healthiest selves, both at work and in their personal lives. It is an important resource for anyone working in the veterinary profession and general practice, as well post-graduates and undergraduates preparing for their career.

CRC Press

August 2026 : 176pp

Pb: 978-1-032-75392-8 : **£52.99**

Hb: 978-1-032-75717-9 : **£135**

* For full contents and more information, visit: www.routledge.com/9781032753928

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