

VOLUME 1

# ADVANCES IN FOOD SCIENCE AND TECHNOLOGY

**EDITED BY**

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# Advances In Food Science And Technology Volume 1

**Yogesh Suryawanshi, Mohd.  
Shahnawaz, Jyoti Parihar, Refaz Ahmad  
Dar, Shallu Samyal, Avinash B. Ade**

## **Advances In Food Science And Technology Volume 1:**

*Advances in Food Science and Technology, Volume 1* Visakh P. M., Sabu Thomas, Laura B. Iturriaga, Pablo Daniel Ribotta, 2013-03-18 Written in a systematic and comprehensive manner the book reports recent advances in the development of food science and technology areas *Advances in Food Science and Technology* discusses many of the recent technical research accomplishments in the areas of food science and technology such as food security as a global issue food chemistry frozen food and technology as well as state of the art developments concerning food production properties quality trace element speciation nanotechnology and bionanocomposites for food packing applications Specifically this important book details New innovative methods for food formulations and novel nanotechnology applications such as food packaging enhanced barrier active packaging and intelligent packaging Freezing methods and equipment such as freezing by contact with cold air cold liquid and cold surfaces cryogenic freezing and a combination of freezing methods Chemical and functional properties of food components Bionanocomposites for natural food packing and natural biopolymer based films such as polysaccharide films and protein films Regulatory aspects of food ingredients in the United States with the focus on the safety of enzyme preparations used in food *Progress in Food Science and Technology* Anthony J. Greco, 2011

**Nutritional Science and Technology** Tejpal Dhewa, Anil Kumar Puniya, Anil Panghal, 2023-08-29 NUTRITIONAL SCIENCE AND TECHNOLOGY Food science is a rapidly changing and complicated subject This new series addresses the current state of the art concepts and technologies associated with the industry and will cover new ideas and emerging novel technologies and processes The book *Nutritional Science and Technology Concept to Application* in the series *Bioprocessing in Food Science* is an excellent resource for any scientist engineer student or other industry professional interested in this topic It covers a wide range of topics including human nutrition technological processes the health benefits of fermented foods and food safety concerns The content contributors and editors are experts in the field and their primary goal is to provide extensive knowledge about recent technologies in nutritional science and technology to students researchers and industry professionals Manufacturers are looking for new possibilities to occupy a growing share of the rapidly changing food market and this book will enable them to make informed decisions about adopting appropriate processing technology implementation economics and constraints of different technologies The book also provides insights on advances in nutritional science and technology for healthy and safe nutrition with maximum illustrations of how to ensure public health safety and adequate nutrition Overall this book is a comprehensive overview of this study area and a valuable resource for anyone interested in this field **Agroforestry** Abhishek Raj, Manoj Kumar Jhariya, Arnab Banerjee, Ramesh Kumar Jha, Krishan Pal Singh, 2024-11-05 This book offers comprehensive insights into the management of agroforestry for livelihood security and sustainable development in the tropics addressing ecological interactions productivity and the monetization of carbon credits while also outlining a future roadmap and policy challenges Agroforestry is a brilliant land use farming

practice that covers 1.6 billion hectares 78 percent in the tropics and 22 percent in the temperate regions to enhance plant diversification productivity and livelihood across generations maintaining eco restoration It ensures socioeconomic upliftment and a standard livelihood for people along with many ecosystem services for sustainable development under resilient climates which are today's key topics popularized among policy makers stakeholders scientists ecologists and climate supporters in the tropical world However more than 75 percent of the world's poor directly depend on natural resources for their livelihoods Adopting climate resilient agroforestry not only maximizes productivity and farmers socioeconomic status but also mitigates climate change issues through carbon sequestrations for better carbon management in the tropics This book addresses agroforestry management for livelihood security and sustainable development in the tropics Readers will learn about ecological interactions and productivity in tropical agroforestry ensuring greater ecosystem services and livelihood resilience under changing climates as well as building livelihood resilience through monetization of carbon credits in agroforestry in the tropics Livelihood and sustainability based policy in agroforestry its challenges and a future roadmap are also covered This volume provides new insights related to updated research development and extension activities for combating climate change through carbon sequestration to enhance intensify greater productivity and livelihood and ecosystem services for ensuring the goals of sustainable development

*Geospatial Technology for Natural Resource Management* Shruti Kanga, Gowhar Meraj, Suraj Kumar Singh, Majid Farooq, M. S. Nathawat, 2024-11-20 This book is essential for anyone interested in understanding and implementing sustainable resource development strategies as it covers the crucial first stage of assessing resource availability and condition along with the use of modern geospatial technologies such as remote sensing GIS and GPS for surveying mapping and monitoring various resources for global environmental protection and sustainable development The first step in developing a sustainable resource strategy is assessing the availability and condition of resources This involves evaluating baseline levels identifying trends and understanding their consequences Mitigation policies are then developed based on this assessment Modern geospatial technologies like Remote Sensing RS Geographic Information Systems GIS and Global Positioning Systems GPS offer powerful tools for surveying mapping and monitoring both renewable and nonrenewable resources These technologies support global environmental protection disaster management and sustainable development by providing repetitive and global data GPS provides accurate geographic coordinates while GIS allows visualization analysis and decision making through spatial data enabling the study of complex environmental and natural resource challenges at various scales

*Guide to English Language Publications in Food Science and Technology* Syd Green, 1975

Functional Foods Navnidhi Chhikara, Anil Panghal, Gaurav Chaudhary, 2022-03-29

Functional Foods Presenting cutting edge information on new and emerging food engineering processes Functional Foods the second volume in the groundbreaking new series Bioprocessing in Food Science is an essential reference on the modeling quality safety and technologies associated with food processing operations today Functional Foods the second volume in

series Bioprocessing in Food Science is an up to date comprehensive volume covering the preparation processes and health benefits of functional foods Written and edited by a team of experts in the field this important new volume provides readers extensive knowledge about different types of traditional and commercially available functional foods from different sources such as milk meat cereals millets and fruits and vegetables The main objective of this book is to disseminate knowledge about the recent technologies developed in the field of functional foods to students researchers and industry professionals This will enable them to make crucial decisions regarding the adoption implementation economics and constraints of the different technologies As the demand for healthy food is increasing manufacturers are searching for new possibilities for occupying a growing share in the rapidly changing food market Covering the use of conventional and non conventional sources prebiotics probiotics and many other topics with emphasis on their functionality in food systems this volume also provides insights on the specific packaging requirements for functional foods with maximum illustrations of how to enhance shelf life and create superior quality products The authors and editors discuss the need for regulatory frameworks government bodies guidelines and their challenges within the context of the functional food market Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library This outstanding new volume Discusses an overview of functional foods including global regulations legislations and packaging requirements Provides knowledge of functional ingredients and health benefits of functional foods from different plants animals and microbes sources Acquaints the readers about technological aspects for functional ingredients delivery Addresses the basic to advanced aspects of different functional foods combining the requirements health benefits and regulations showcasing the development of functional food products with potential functional benefits Audience Process and chemical engineers chemists engineers in other disciplines managers researchers scientists students and teachers working in the field of food engineering and processing

**Plant Secondary Metabolites and Abiotic Stress** Ganesh C. Nikalje, Mohd. Shahnawaz, Jyoti Parihar, Hilal Ahmad Qazi, Vishal N. Patil, Daochen Zhu, 2024-10-21 This book provides a comprehensive overview of cutting edge biotechnological approaches for enhancing plant secondary metabolites to address abiotic stress offering valuable insights into the future of utilizing plants for medicinal and industrial purposes Various books on plant secondary metabolites are available however no book has an overview of the recent trends and future prospects of all the methods available to enhance the contents of the plant secondary metabolites Plant Secondary Metabolites and Abiotic Stress aims to give an overview of all the available strategies to ameliorate abiotic stress in plants by modulating secondary metabolites using biotechnological approaches including plant tissue cultures synthetic metabolic pathway engineering targeted gene silencing and editing using RNAi and CRISPR CAS9 technologies Nonthermal Food Processing, Safety, and Preservation Anand Prakash, Arindam Kuila, 2024-05-21 NONTHERMAL FOOD PROCESSING SAFETY AND PRESERVATION This book is essential for learning how biological processes are translated into commercial products and services under food

biotechnology and will significantly broaden users scope capabilities and application of bioprocess engineering food processes biochemical engineering nanotechnology biotechnology and microbiology Food engineering involves a variety of processes and technologies that deal with the construction design operations and associated engineering principles to produce valuable edible goods and byproducts There is a dearth of published cutting edge high quality original studies in the engineering and science of all types of processing technologies from the beginning of the food supply chain to the consumer s dinner table This book seeks to address multidisciplinary experimental and theoretical discoveries that have the potential to improve process efficiency improve product quality and extend the shelf life of fresh and processed food and associated industries This book is for the students and researchers who are interested in learning how biological processes are translated into commercial products and services with food biotechnology

*Mathematical Modeling in Agriculture* Sabyasachi Pramanik,Niranjana Murthy M.,Ankur Gupta,Ahmed J. Obaid,2024-11-20 The main goal of the book is to explore the idea behind data modeling in smart agriculture using information and communication technologies and tools to make agricultural practices more functional fruitful and profitable The research in the book looks at the likelihood and level of use of implemented technological components with regard to the adoption of different precision agricultural technologies To identify the variables affecting farmers choices to embrace more precise technology zero inflated Poisson and negative binomial count data regression models were utilized Outcomes from the count data analysis of a random sample of various farm operators show that various aspects including farm dimension farmer demographics soil texture urban impacts farmer position of liabilities and position of the farm in a state were significantly associated with the approval severity and likelihood of precision farming technologies Farm management information systems FMIS have constantly advanced in complexity as they have incorporated new technology the most recent of which is the internet However few FMIS have fully tapped into the internet s possibilities and the newly developing idea of precision agriculture receives little or no support in the FMIS that are now being sold FMIS for precision agriculture must meet a few more criteria beyond those of regular FMIS which increases the technological complexity of these systems deployment in a number of ways In order to construct an FMIS that meet these extra needs the authors here evaluated various cutting edge web based methods The goal was to determine the requirements that precision agriculture placed on FMIS

**Ecosystem Management** Arnab Banerjee,Manoj Kumar Jharia,Abhishek Raj,Taher Mecherghi,2024-11-05 This book is essential for anyone who wants to understand the challenges of environmental degradation and learn about the sustainable solutions needed to address these critical issues Today the entire globe is suffering from various forms of environmental degradation resource depletion and an imbalance of natural phenomena In this context one of the major issues is loss of ecosystem services and proper functioning of natural ecosystems Pollution ecological invasion loss of biodiversity land degradation and loss of productivity across various ecosystems have become the biggest challenges humankind is faced with Considering Sustainable Development Goals 2030 the major target is

to restore degraded ecosystems and their functionality which will bring back the valuable ecosystem services of a diverse ecosystem Ecosystem Management Climate Change and Sustainability addresses all these issues to teach a global readership the dimensions of ecosystem services and ways toward a future sustainable world      **Advanced Fermentation and Cell Technology, 2 Volume Set** Byong H. Lee, 2021-10-25 ADVANCED FERMENTATION AND CELL TECHNOLOGY A

comprehensive and up to date reference covering both conventional and novel industrial fermentation technologies and their applications Fermentation and cell culture technologies encompass more than the conventional microbial and enzyme systems used in the agri food biochemical bioenergy and pharmaceutical industries New technologies such as genetic engineering systems biology protein engineering and mammalian cell and plant cell systems are expanding rapidly as is the demand for sustainable production of bioingredients drugs bioenergy and biomaterials As the growing biobased economy drives innovation industrial practitioners instructors researchers and students must keep pace with the development and application of novel fermentation processes and a variety of cell technologies Advanced Fermentation and Cell Technology provides a balanced and comprehensive overview of the microbial mammalian and plant cell technologies used by the modern biochemical process industry to develop new and improved processes and products This authoritative volume covers the essential features of advanced fermentation and cell technology and highlights the interaction of food fermentation and cell culture biopharmaceutical actives Detailed chapters organized into five sections cover microbial cell technology animal and plant cell technology safety issues of new biotechnologies and applications of microbial fermentation to food products chemicals and pharmaceuticals Written by an internationally recognized expert in food biotechnology this comprehensive volume Covers both conventional and novel industrial fermentation technologies and their applications in a range of industries Discusses current progress in novel fermentation cell culture commercial recombinant bioproducts technologies Includes overviews of the global market size of bioproducts and the fundamentals of cell technology Highlights the importance of sustainability Good Manufacturing Practices GMP quality assurance and regulatory practices Explores microbial cell technology and culture tools and techniques such as genome shuffling and recombinant DNA technology RNA interference and CRISPR technology molecular thermodynamics protein engineering proteomics and bioinformatics and synthetic biology Advanced Fermentation and Cell Technology is an ideal resource for students of food science biotechnology microbiology agricultural sciences biochemical engineering and biochemistry and is a valuable reference for food scientists researchers and technologists throughout the food industry particularly the dairy bakery and fermented beverage sectors

**Nonthermal Food Engineering Operations** Nitin Kumar, Anil Panghal, M. K. Garg, 2024-06-18 NONTHERMAL FOOD ENGINEERING OPERATIONS Presenting cutting edge information on new and emerging food engineering processes Nonthermal Food Engineering Operations the latest volume in the series Bioprocessing in Food Science is an essential reference on the modeling quality safety and technologies associated with food processing operations today Bioprocessing in

Food Science is a series of volumes covering the entirety of unit operations in food processing This latest volume covers nonthermal food engineering operations focusing on packaging techniques artificial intelligence and other emerging technologies and their use and relevance within food engineering fluid extraction nanotechnology and many other topics As the demand for healthy food is increasing in the current global scenario manufacturers are searching for new possibilities for occupying a greater share in the rapidly changing food market Compiled reports and updated knowledge on thermal processing of food products are imperative for commercial enterprises and manufacturing units In the current scenario academia researchers and food industries are working in a scattered manner and different technologies developed at each level are not compiled to implement for the benefits of different stakeholders However advancements in bioprocesses are required at all levels for the betterment of food industries and consumers This series of groundbreaking edited volumes will be a comprehensive compilation of all the research that has been carried out so far their practical applications and the future scope of research and development in the food bioprocessing industry During the last decade there have been major developments in novel technologies for food processing This series will cover all the novel technologies employed for processing different types of foods encompassing the background principles classification applications equipment effect on foods legislative issue technology implementation constraints and food and human safety concerns Smart Agritech

Santosh Kumar Srivastava,Durgesh Srivastava,Korhan Cengiz,Pramod Gaur,2024-09-11 The main goal of Smart Agritech Robotics AI and Internet of Things IoT in Agriculture is to explore how emerging technologies such as robotics artificial intelligence AI and IoT can be leveraged to improve efficiency sustainability and productivity in agriculture Agriculture has always been a vital sector of the global economy providing food and raw materials for industries and households However with the growing population changing climate conditions and limited resources the agriculture sector faces numerous challenges To address these challenges farmers and agricultural companies are turning to advanced technologies such as Robotics Artificial Intelligence AI and the Internet of Things IoT This exciting new volume provides a comprehensive overview of the latest technological advances in agriculture focusing on these three cutting edge technologies The book will explore the potential benefits of these technologies in improving agricultural efficiency productivity and sustainability Whether for the veteran engineer scientist in the lab student or faculty this groundbreaking new volume is a valuable resource for researchers and other industry professionals interested in the intersection of technology and agriculture

Oilseed Crops Yogesh Suryawanshi,Mohd. Shahnawaz,Jyoti Parihar,Refaz Ahmad Dar,Shallu Samyal,Avinash B. Ade,2025-03-17 Oilseed Crops offers essential insights into sustainable biotechnological advancements that are vital for enhancing oil production and meeting the skyrocketing global demand for food fuel and energy Plants particularly oilseed crops have played a crucial role in biotechnology since the early 20th century providing sustainable resources for food fodder and fuel The book Oilseed Crops delves into using biotechnological methods to enhance both edible and non edible oils



sustainably It offers an in depth look at the global oil plant market growth influencers adulteration detection and yield improvement strategies Highlighting significant advancements in oilseed research such as plant microbe interactions drought resistance and molecular biotechnologies the book focuses on increasing oil yields and discusses the production of biofuels from non edible oilseeds to meet rising biofuel demands      Sustainable Development Using Geospatial Techniques Disha Thakur, Sanjay Kumar, Har Amrit Singh Sandhu, Chander Prakash, 2024-09-26 This book is a must have for anyone interested in leveraging geospatial technology as it covers a wide range of applications and offers valuable insights into the mapping visualization and analysis of natural resource planning using GIS remote sensing and GPS Geospatial technology GT is a combination of geographic information systems GIS remote sensing RS and the global position system GPS for the mapping visualization and analysis of natural resource planning Nowadays GIS is widely used throughout the globe for a wide range of applications GIS is a system that combines locations geography hardware software statistics planning and digital mapping GIS is a system in which one can store manipulate analyze and visualize or display spatial data The basic components of GIS are hardware software data input and manpower One can develop spatial temporal and dynamic models using GIS which may help in effective decision making tools Geospatial information is a computer programme that collects stores verifies and presents information on locations on the surface of the Earth Geographical information systems play a key role in sustainable development Geospatial technology combines traditional database operations like query and statistical analysis with the specific graphical and geographic analytical capabilities offered by maps      Computer Vision in Smart Agriculture and Crop Management Rajesh Kumar Dhanaraj, Balamurugan Balusamy, Prithi Samuel, Malathy Sathyamoorthy, Ali Kashif Bashir, 2024-12-24 This book is essential for anyone interested in understanding how smart agriculture utilizing information and technology such as computer vision and deep learning can revolutionize agriculture productivity resolve ongoing concerns and enhance economic and general effectiveness in farming The need for a reliable food supply has driven the development of smart agriculture which leverages technology to assist farmers especially in remote areas A key component is computer vision CV technology which combined with deep learning can manage agricultural productivity and enhance automation systems for improved efficiency and cost effectiveness Automation in agriculture ensures benefits like reduced costs high performance and accuracy Aerial imaging and high throughput research enable effective crop monitoring and management Computer vision and AI models aid in detecting plant health impurities and pests supporting sustainable farming This book explores using CV and AI to develop smart agriculture through deep learning data mining and intelligent applications      *Fermentative Nutraceuticals* Meena Sindhu, Anil Panghal, 2025-04-01 Fermentative Nutraceuticals the latest volume in the series Bioprocessing in Food Science presents recent advances and breakthroughs in bioactive peptides derived from fermented foods highlighting their applications as nutraceuticals This volume explores opportunities for product design and innovation in food processing Bioprocessing in Food Science is a series of volumes that comprehensively covers

unit operations in food processing This latest installment addresses the advances breakthroughs and challenges associated with fermentative nutraceuticals The demand for food nutraceuticals and functional foods is growing among consumers worldwide Academia researchers and the food industry are working in a fragmented manner with technologies developed at each level often not compiled in a unified resource for stakeholders Typically the foods we consume are enriched with certain nutrients but deficient in others Microbial fermentation can enhance the nutritional properties of food Bioactive peptides produced through fermentation exhibit antioxidative anticancer and antidiabetic properties Increased efforts from the food industry are needed to focus research on peptides and their applications as food grade preservatives and functional food ingredients This groundbreaking volume provides a comprehensive compilation of existing research practical applications and future research prospects The editors and contributing experts have made an earnest effort to include every possible detail presenting an up to date repository of scientific literature and their own research findings This volume is an invaluable resource for students researchers product developers and industry professionals **Flavour Science** Wender L.P.

Bredie, Mikael Agerlin Petersen, 2006-05-10 The flavor of a food is often the most desirable quality characteristic for the consumer yet the understanding of flavour is a fascinatingly complicated subject which calls for interdisciplinary research efforts This latest volume presents the proceedings of the 11th Weurman Flavour Research Symposium and describes the most recent and original research advances related to the flavour of foods and beverages with contributions of experts from 25 countries world wide Efficiently summarises the current front line research within food flavor Highlights the modern approaches to flavor production using biotechnology enzymes and gene technology The dynamic effects of manipulation of food in the mouth during consumption influencing the release of flavour compounds is discussed in detail **Lubricants**

**from Renewable Feedstocks** Subhalaxmi Pradhan, Lalit Prasad, Chandu Madankar, S. N. Naik, 2024-07-02 Written and edited by a team of industry experts this exciting new volume covers the field of renewable lubricants their processing optimization end use application and their future potential Biolubricants are a viable alternative to synthetic lubricants because they are produced from organic materials such as plant oils waste oils and by products Renewable biolubricants are the subject of research because of their biodegradability eco friendliness and favorable socioeconomic consequences to counteract imitations of synthetic lubricants Biolubricants have thus emerged as an ideal substitute for mineral oil based lubricants as significant economic and environmental acceptability has been received over the last few decades and it has been estimated that there would be a further steady growth in its demand over the next few decades Furthermore biolubricants high quality lubricating properties high load carrying ability long service life and fast biodegradability have expanded the recent interest These lubricants can be derived from different sources of vegetable oils non edible oils waste cooking oils WCO and microbe derived oils Among all these sources the use of WCOs and microbe derived oils have received immense interest and provide superior quality biolubricants This outstanding new volume covers the prospects and

processing of feedstocks for biolubricants extraction techniques new advancements in the field of bio based lubricants epoxide lubricants hydrogenated lubricants microbial based biolubricants nano biolubricants polyester based biolubricants lubricants from waste oils and waste materials its economic and environmental acceptability and biorefinery approaches The book will be helpful to industry professionals and engineers of all types students and other stakeholders working in the field of lubricant chemical engineering mechanical engineering and material science tribological sectors and biorefinery industries It will also be of great interest to new start up companies working in the area of processing feedstocks for biolubricant production and end use application biorefineries valorization of biolubricant waste and in the recycling industries

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