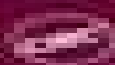


Environmentally Friendly Technologies For Agricultural Produce Quality



Edited by

Shimshon Ben-Yehoshua



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Environmentally Friendly Technologies For Agricultural Produce Quality

**Jean-Vasile, Andrei, Adrian, Turek
Rahoveanu, Subic, Jonel, Dusmanescu,
Dorel**

Environmentally Friendly Technologies For Agricultural Produce Quality:

Environmentally Friendly Technologies for Agricultural Produce Quality Shimshon Ben Yeoshua, 2005-05-26 While ecology as a whole continues to receive considerable attention postharvest food handling until recently had not been examined from a green perspective This has changed as health conscious consumers look to improve both their diets and their environment Environmentally Friendly Technologies for Agricultural Produce Quality is the first book in the **Sustainable Food Processing** series Brijesh K. Tiwari, Tomas Norton, Nicholas M. Holden, 2013-12-31 Sustainable Food Processing Food processors face numerous challenges from ever changing economic social and environmental conditions With global inequalities increasing ingredient costs climbing and global climate change becoming a major political issue food producers must now address environmental concerns social responsibility and economic viability when shaping their food processing techniques for the future Food production preservation and distribution contribute to greenhouse gas emissions from the agri food sector therefore food producers require detailed industrially relevant information that addresses these challenges The food industry as one of the world's largest users of energy must embrace new ways of meeting the needs of the present without compromising future viability It is important that the industry does not merely focus on simple indicators of sustainability that are relatively easy to calculate and hold appeal for governments and the public but which do not properly address the many dimensions of sustainability This book provides a comprehensive overview of both economic sustainability and the environmental concerns that relate to food processing It is divided into four sections Part one deals with principles and assessment of sustainability in the context of food processing Part two summarises sustainability in various food processing applications within the food industry Part three considers sustainability in food manufacturing operations that are vital in food production systems and Part four addresses sustainable food distribution and consumption As the most comprehensive reference book for industry to date this book will provide engineers educators researchers policy makers and scientists working in the food industry with a valuable resource for their work **Recent Advances in Postharvest Technologies, Volume 1** Nouredine Benkeblia, 2024-09-09 The elapsing time from producer to consumer has significantly increased as a result of food marketing and trade globalization Consequently maintaining quality along the food value chain is becoming a significant challenge Postharvest losses are considered a major component of food loss and waste in the supply chain from farmers to consumers due to improper handling storage transport preservation techniques and spoilage Postharvest science aims to extend the shelf life of fresh and perishable commodities and to reduce heavy losses thereby contributing to food security While significant progresses have been made in postharvest preservation and shelf life extension the continuous development of emerging technologies have changed our vision on postharvest science Furthermore recent advancements in molecular engineering of horticultural crops for quality improvement the development of genomics transcriptomics proteomics and metabolomics have led to a better understanding of the physiology and the

biochemistry of the senescence processes resulting in better preservation and improved production of fresh crops This two volume work focuses on innovative technologies that extend and preserve shelf life of fruits and vegetables Volume 1 offers a review on the state of the art modern technologies in the postharvest field The accompanying Volume 2 explores advanced and novel technologies after harvest particularly the application of nanotechnologies to packaging materials Sustainable Agriculture Systems and Technologies Pavan Kumar,A. K. Pandey,Susheel Kumar Singh,S. S. Singh,V. K. Singh,2022-03-01 Sustainable Agriculture Systems and Technologies A robust treatment of traditional and new techniques in sustainable agriculture In Sustainable Agriculture Systems and Technologies a team of distinguished researchers delivers an up to date and comprehensive exploration of sustainable agriculture and its relationship to the drivers of climate change Along with robust examinations of food security and the agrarian livelihood the book covers the impact of climate change and variability on agriculture water management in agricultural systems and precision agriculture This book represents a significant contribution to the scientific understanding of the application of technologies that address food insecurity and climate change through sustainable productivity system diversification irrigation practices crop modeling data analytics and agricultural policy It also explores the risks and benefits of different agricultural systems under changing climate scenarios The book also offers A thorough introduction to agriculture and food security including the diversification of ecosystems and the impact of Covid 19 lockdowns on food security and smallholder agricultural systems Comprehensive explorations of crop diversification and the impacts of climate variability on food security in Indonesia Practical discussions of water conservation agriculture and the quality of irrigation water for sustainable agriculture development in India In depth examinations of geoinformatics artificial intelligence sensor technology and big data Perfect for academics scientists environmentalists and environmental consultants Sustainable Agriculture Systems and Technologies will also earn a place in the libraries of computing experts working in the field of agricultural science **Fennema's Food Chemistry** Srinivasan Damodaran,Kirk L. Parkin,2017-05-25 This latest edition of the most internationally respected reference in food chemistry for more than 30 years Fennema's Food Chemistry 5th Edition once again meets and surpasses the standards of quality and comprehensive information set by its predecessors All chapters reflect recent scientific advances and where appropriate have expanded and evolved their focus to provide readers with the current state of the science of chemistry for the food industry This edition introduces new editors and contributors who are recognized experts in their fields The fifth edition presents a completely rewritten chapter on Water and Ice written in an easy to understand manner suitable for professionals as well as undergraduates In addition ten former chapters have been completely revised and updated two of which receive extensive attention in the new edition including Carbohydrates Chapter 3 which has been expanded to include a section on Maillard reaction and Dispersed Systems Basic considerations Chapter 7 which includes thermodynamic incompatibility phase separation concepts Retaining the straightforward organization and accessibility of the original this edition begins with an

examination of major food components such as water carbohydrates lipids proteins and enzymes The second section looks at minor food components including vitamins and minerals colorants flavors and additives The final section considers food systems by reviewing basic considerations as well as specific information on the characteristics of milk the postmortem physiology of edible muscle and postharvest physiology of plant tissues

Emerging Sustainable and Green Technologies for Improving Agricultural Production

Ruonan Ma,Zhen Jiao,Gyungsoon Park,Libin Zhou,2025-10-01

Nowadays the world is facing food shortages with the increasing global population decreasing food sources and deteriorating environment Traditionally several strategies have been employed to improve agricultural production including physical methods e g seed priming stratification scarification and ultrasound and chemical methods e g disinfectants fungicides hormones and fertilizers However most of these methods have their own limitations For example some methods require expensive and sophisticated equipment and some approaches are inefficient time consuming and impractical The current agricultural production relies on a large number of chemical fertilizers pesticides and some other chemicals to guarantee high agricultural output which inevitably causes environmental pollution and directly threaten human health Recently number of emerging sustainable and green technologies such as atmospheric cold plasma ion beams and nanoparticles are becoming increasingly popular in agriculture which can be applied in seed sterilization plant disease control improvement of seed germination and seedling growth and enhancement of plant resistance against various stresses These technologies can be promising alternatives to conventional methods for improving crop yields However the mechanisms underline the biological effects induced by the emerging sustainable and green technologies are still unclear

Advances in postharvest management of cereals and grains

Prof. Dirk E. Maier,2020-08-25 Reviews latest research on causes of cereal postharvest losses Comprehensive review of the strengths and weakness of different technologies to control postharvest insect pests of cereals Covers latest research on the detection and control of fungal contaminants

Handbook of Vegetables and Vegetable Processing Muhammad Siddiq,Mark A. Uebersax,2018-02-14 Handbook of Vegetables and Vegetable Processing Second Edition is the most comprehensive guide on vegetable technology for processors producers and users of vegetables in food manufacturing This complete handbook contains 42 chapters across two volumes contributed by field experts from across the world It provides contemporary information that brings together current knowledge and practices in the value chain of vegetables from production through consumption The book is unique in the sense that it includes coverage of production and postharvest technologies innovative processing technologies packaging and quality management Handbook of Vegetables and Vegetable Processing Second Edition covers recent developments in the areas of vegetable breeding and production postharvest physiology and storage packaging and shelf life extension and traditional and novel processing technologies high pressure processing pulse electric field membrane separation and ohmic heating It also offers in depth coverage of processing packaging and the nutritional quality of vegetables as well as information on a broader

spectrum of vegetable production and processing science and technology Coverage includes biology and classification physiology biochemistry flavor and sensory properties microbial safety and HACCP principles nutrient and bioactive properties In depth descriptions of key processes including minimal processing freezing pasteurization and aseptic processing fermentation drying packaging and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado table olives and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology food science food packaging applied nutrition biosystems and agricultural engineering biotechnology horticulture food biochemistry plant biology and postharvest physiology

Fresh-Cut Fruits and Vegetables Sunil Pareek, 2016-08-05 Because they meet the needs of today's consumers fresh cut plant products are currently one of the hottest commodities in the food market of industrialized countries However fresh cut produce deteriorates faster than the correspondent intact produce The main purpose of *Fresh Cut Fruits and Vegetables Technology Physiology and Safety* is to provide helpful guidelines to the industry for minimizing deterioration keeping the overall quality and lengthening the shelf life It provides an integrated and interdisciplinary approach for accomplishing the challenges where raw materials handling minimal processing packaging commercial distribution and retail sale must be well managed It covers technology physiology quality and safety of fresh cut fruits and vegetables In this book the chapters follow a logical sequence analyzing most of the important factors affecting the main characteristics of fresh cut horticultural products The most relevant technologies to prevent deterioration and improve final overall quality of fresh cut commodities are described in detail This book covers the basics of the subject from quality preservation nutritional losses physiology and safety to industry oriented advancements in sanitization coatings and packaging It examines such novel preservation technologies as edible coatings antimicrobial coatings natural antimicrobials gum arabic coatings and pulsed light treatments Minimal processing design and industrial equipment are also reviewed With its international team of contributors this book will be an essential reference work both for professionals involved in the postharvest handling of fresh cut and minimally processed fruits and vegetables and for academic and researchers working in the area

Flexible Incentives for the Adoption of Environmental Technologies in Agriculture Frank Casey, Andrew Schmitz, Scott Swinton, David Zilberman, 2012-12-06 *Flexible Incentives for the Adoption of Environmental Technologies in Agriculture* identifies and structures more flexible economic incentives for the achievement of environmental goals in agriculture It provides a conceptual framework and presents case studies that analyze how flexible incentives can address environmental problems that are caused by agricultural production The book brings together economists agency personnel and political economists for the purpose of exploring how new cutting edge economic tools could be developed and applied to environmental problems The goal of the book is to complement and to expand the economic theory of environmental regulation and technology adoption with new research findings The key theme of this book is the important role technology takes when addressing

environmental problems New technologies and technical development are broadly defined to include economic instruments innovative ways to communicate environmental information new economic institutions and education This book is designed for public and private policymakers government analysts teachers researchers and students who specialize in the fields of natural resources agricultural economics and environmental regulation It provides a fresh perspective on what types of incentives may be used to lead us to the desired environmental outcomes and offers new ideas about the types of economic instruments that may achieve these outcomes *Case Studies in Novel Food Processing Technologies* C J Doona,2010-10-28

Novel food processing technologies have significant potential to improve product quality and process efficiency Commercialisation of new products and processes brings exciting opportunities and interesting challenges Case studies in novel food processing technologies provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Part one presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Part two broadens the case histories to include alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies which are applied in food preservation sectors ranging from fresh produce to juices to disinfestation Part three covers novel food preservation techniques using natural antimicrobials novel food packaging technologies and oxygen depleted storage techniques Part four contains case studies of innovations in retort technology microwave heating and predictive modelling that compare thermal versus non thermal processes and evaluate an accelerated 3 year challenge test With its team of distinguished editors and international contributors *Case studies in novel food processing technologies* is an essential reference for professionals in industry academia and government involved in all aspects of research development and commercialisation of novel food processing technologies Provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Features alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies utilised in food preservation sectors **Control and Management of Pests in Stored Products** Digvir S. Jayas,2024-07-01

Stored commodities are man made ecosystems and interactions of biological agents with its surrounding physical environment could result in significant economic losses if physical environment is not manipulated to make it lethal or at least difficult for survival of biological agents *Control and Management of Pests in Stored Products* is based on 18 invited presentations by world renowned experts on topics of relevance to control and manage pests in stored products Each chapter synthesizes the state of art knowledge on the selected topics dealing with fumigation fumigants and other methods of controlling insects such as low temperature diatomaceous earth integrated pest management and provides recommendations for future

research It also includes two chapters on practical aspects of fumigation dealing with engineering considerations and safety The contents of the chapters were presented as the keynote addresses at the International Conference on Controlled Atmosphere and Fumigation in Stored Products This book serves as a reference book for graduate students researchers and facility managers and can also be useful as a textbook for courses dealing with aspects of grain storage for students in agricultural engineering agricultural entomology and food science

Handbook of Vegetables and Vegetable Processing Nirmal K. Sinha, Y. H. Hui, E. Özgül Evranuz, Muhammad Siddiq, Jasim Ahmed, 2010-12-21 Vegetables are an important article of commerce both in developed and developing economies Many studies point to importance of vegetables in our diet Handbook of Vegetables and Vegetable Processing serves as a reference handbook on vegetables and vegetable processing containing the latest developments and advances in this fast growing field The book can be considered as a companion to Y H Hui's popular Handbook of Fruits and Fruit Processing 2006 Handbook of Vegetables and Vegetable Processing is contemporary in scope with in depth coverage of new interdisciplinary developments and practices in the field of vegetables emphasizing processing preservation packaging and nutrition and food safety Coverage includes chapters on the biology horticultural biochemistry microbiology nutrient and bioactive properties of vegetables and their significant commercialization by the food industry worldwide Full chapters are devoted to major vegetables describing aspects ranging from chemistry to processing and preservation World renowned editors and authors have contributed to this essential handbook on vegetables and their production technology storage processing packaging safety and commercial product development Special Features Coverage includes biology and classification physiology biochemistry flavor and sensory properties microbial safety and HACCP principles nutrient and bioactive properties In depth descriptions of key processes including minimal processing freezing pasteurization and aseptic processing fermentation drying packaging and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado table olives and textured vegetable proteins Unparalleled expertise on important topics from more than 50 respected authors

Postharvest Plant Pathology N.G. Ravichandra, 2021-11-22 The purpose of the book Postharvest Plant Pathology is to provide its readers recent developments and updated comprehensive information on postharvest pathogens diseases of major crops This book explicates the fundamental aspects of postharvest diseases of crops and is conveniently divided into ten chapters providing the latest information on the concept types of postharvest diseases economically significant postharvest pathogens diseases of major crops factors governing postharvest diseases storage conditions food safety issues quiescence in post harvest pathogens detailed recent information on major mycotoxins various approaches of postharvest disease management integrated management strategies biochemical molecular aspects of postharvest diseases apart from which an exclusive chapter for discussing the postharvest nematode diseases and their management is also furnished Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka This title is co published with

NIPA *Postharvest Physiology and Handling of Horticultural Crops* Ibrahim Kahramanoglu, 2023-12-14 The increase in global population compels growers to use excessive fertilizers to enhance agricultural production Excessive fertilizer use may also negatively affect the nutritional quality and preservation of horticultural products reducing the shelf life and overall quality of fruits and vegetables Postharvest Physiology and Handling of Horticultural Crops contains fundamental information that helps readers understand postharvest physiology of fresh fruits and vegetables and presents an in depth analysis of the harmful impacts of agrochemicals The book presents readers with eco friendly innovative techniques used to handle the fruits and vegetables during storage and through supply chains helping to better preserve them Features Describes available technologies to eliminate and minimize microbial infection for maintaining postharvest quality and safety of fresh produce Explores and discusses approaches technologies and management practices necessary to maintain products storage quality by ensuring food safety and nutrition retention Provides practical applications of latest developments in disinfection applications smart packaging nano enabled applications advances in fresh cut products light illumination and edible coatings Presents an in depth discussion of the harmful impacts of agrochemicals and aims to introduce new eco friendly and innovative technologies to the readers With chapters written by experts in the field of postharvest fruit and vegetable preservation this book provides information on the use of biomaterials in food preservation and provides practical information for students teachers professors scientists farmers food packers and sellers as well as entrepreneurs engaged in the fresh food preservation industry Fruit Preservation Amauri Rosenthal, Rosires Deliza, Jorge Welti-Chanes, Gustavo V. Barbosa-Cánovas, 2018-11-05 Fruits and fruit based products are in most cases associated with very good sensory characteristics health well being perishability relatively easy to mix with food products of diverse origin amenable to be processed by conventional and novel technologies Given the multiplicity of aspects whenever fruit preservation is considered the editors took the challenge of covering in a thorough comprehensive manner most aspects dealing with this topic To accomplish these goals the editors invited well known colleagues with expertise in specific disciplines associated with fruit preservation to contribute chapters to this book Eighteen chapters were assembled in a sequence that would facilitate like building blocks to have at the same time a birds eye view and an in depth coverage of traditional and novel technologies to preserve fruits Even though processing took center stage in this book ample space was dedicated to other relevant and timely topics on fruit preservation such as safety consumer perception sensory and health aspects FEATURES Traditional and Novel Technologies to Process Fruits Microwaves Ohmic Heating UV C light Irradiation High Pressure Pulsed Electric Fields Ultrasound Vacuum Impregnation Membranes Ozone Hurdle Technology Topics Associated with Fruit Preservation Safety Nutrition and Health Consumer Perception Sensory Minimal Processing Packaging Unit Operations for Fruit Processing Cooling and Freezing Dehydration Frying *Sustainable Technologies, Policies, and Constraints in the Green Economy* Jean-Vasile, Andrei, Adrian, Turek Rahoveanu, Subic, Jonel, Dusmanescu, Dorel, 2013-05-31 The development of a

green and sustainable economy continues to grow in awareness and popularity due to its promotion of a more comprehensive way of achieving economic development through social and environmental efficiency Sustainable Technologies Policies and Constraints in the Green Economy carefully investigates the complex issues which surround the wide array of concepts policies and measures that come into play when promoting this somewhat new ideology This publication covers over 50 years of research in the field in order to provide the best theoretical frameworks and empirical research to its readers Professors researchers practitioners and students will all benefit from the relevant discussions and diverse conclusions which are revealed in these chapters

Health-Promoting Properties of Fruits and Vegetables Leon Terry, 2011 Fruits and vegetables are one of the richest sources of ascorbic acid other antioxidants and produce specific bioactive compounds A general consensus from health experts has confirmed that an increased dietary intake of antioxidant compounds found in most fresh produce types may protect against oxidative damage caused by free radicals and reduce the incidence of certain cancers and chronic diseases Currently there is no book available which collectively discusses and reviews empirical data on health promoting properties of all fresh produce types This book will provide detailed information on identity nature bioavailability chemopreventative effects and postharvest stability of specific chemical classes with known bioactive properties In addition chapters discuss the various methodologies for extraction isolation characterization and quantification of bioactive compounds and the in vitro and in vivo anticancer assays It will be an essential resource for researchers and students in food science nutrition and fruit and vegetable production

Production Technology of Stone Fruits Mohammad Maqbool Mir, Umar Iqbal, Shabir Ahmad Mir, 2021-01-04 Globally stone fruits are emerging in the market due to the increased consumer's desire for health promoting foods Stone fruits attract research attention mainly due to the cultural and commercial aspects of the array of varieties that are grown Being grown in wide range of environments it is very important to understand what factors influence the production and quality attributes of stone fruits There is a lack of systematic scientific information on strategic approach for production technologies of such fruits This book will be first of its kind focusing on technological aspects of stone fruits especially on latest developments in present day horticulture It will be an essential reference for professionals including academicians scholars researchers and industries working in the said area We hope that readers will find this book a useful resource for their research or studies and it will be helpful in the development of high quality stone fruits in future which will improve the economic and social life of people Besides this book fulfills the needs of a number of horticultural courses of Universities and will serving as a pomological manual for all occasions

Handbook of Research on Green Technologies for Sustainable Management of Agricultural Resources Sengar, R.S., Chaudhary, Reshu, Bhadauriya, H.S., 2022-04-30 Green technology is focused on devising environmentally friendly eco friendly agricultural practices It plays a crucial role in dealing with food security issues and reducing the carbon footprint Green technologies and environmental sustainability are focused on the goals of green technologies which are becoming

increasingly important for ensuring sustainability The Handbook of Research on Green Technologies for Sustainable Management of Agricultural Resources covers the applications of green technology as well as different eco friendly technologies for the sustainable management of natural resources It also explores the timely topic of enhancing crop productivity It is ideal for agriculturists farmers botanists technologists policymakers scientists academicians researchers and students as it covers a variety of concepts such as organic farming and the role of green technologies

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Environmentally Friendly Technologies For Agricultural Produce Quality Introduction

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