

**Producers**



**Sorting**

- bruising
- decay, insects and disorders
- inefficiency

**Packaging**

- leakage
- bruising
- environmental impact

**Storage**

- overripening

**Transport**

- overripening
- bruising
- breakage

**Marketing**

- contamination

**Consumers**



- contamination

- heat, extreme cold
- disorders
- off-flavors

- Quality losses
- Improper retail conditions
- Consumers' dissatisfaction

# Emerging Trends In Postharvest Processing And Utilisation Of Plant Foods

**Hosahalli S. Ramaswamy**



## **Emerging Trends In Postharvest Processing And Utilisation Of Plant Foods:**

*Emerging Trends in Post Harvest Processing and Utilization of Plant Foods* Khetarpaul N Et Al.,2005-01-01

**Emerging Trends in Post-harvest Processing and Utilization of Plant Foods** N. Khetarpaul,2024 **Crop**

**Post-Harvest: Science and Technology, Crop Post-Harvest** Peter Golob,Graham Farrell,John E. Orchard,2002-12-13

World wide losses of crops post harvest through microbial action pests diseases and other types of spoilage amount to millions of tons every year This essential handbook is the first in a three volume series which covers all factors affecting post harvest quality of all major fruits vegetables cereals and other crops Compiled by members of the world renowned Natural Resources Institute at the University of Greenwich Chatham UK the comprehensive contents of this landmark publication encourage interactions between each sector of the agricultural community in order to improve food security food safety and food quality in today s global atmosphere Through the carefully compiled and edited chapters internationally respected authors discuss ways to improve harvest yield and quality drawing on their many years practical experience and the latest research findings applications and methodologies Subjects covered include an introduction to the systems used in post harvest agricultural processes physical and biological factors affecting post harvest commodities storage issues pest management food processing and preservation food systems the latest research and assimilation of this work and current trade and international agreements An invaluable glossary showing important pests pathogens and plants is also included Crop Post Harvest Science and Technology Volume 1 Principles and Practice is a must have reference book which offers the reader an overview of the globalisation of post harvest science technology economics and the development of the storage and handling of perishable and durable products Volumes 2 and 3 will go on to explore durables and perishables individually in more detail with many case studies taken from around the globe This 3 volume work is the standard handbook and reference for all professionals involved in the harvesting shipping storage and processing of crops including agricultural and plant scientists food scientists and technologists microbiologists plant pathologists entomologists and all post harvest shipping and storage consultants Libraries in all universities and research establishments where these subjects are studied and taught should have multiple copies on their shelves *Crop Post-Harvest: Science and Technology, Volume 1* Peter Golob,Graham Farrell,John E. Orchard,2008-04-15 World wide losses of crops post harvest through microbial action pests diseases and other types of spoilage amount to millions of tons every year This essential handbook is the first in a three volume series which covers all factors affecting post harvest quality of all major fruits vegetables cereals and other crops Compiled by members of the world renowned Natural Resources Institute at the University of Greenwich Chatham UK the comprehensive contents of this landmark publication encourage interactions between each sector of the agricultural community in order to improve food security food safety and food quality in today s global atmosphere Through the carefully compiled and edited chapters internationally respected authors discuss ways to improve harvest yield and quality drawing on their many years

practical experience and the latest research findings applications and methodologies Subjects covered include an introduction to the systems used in post harvest agricultural processes physical and biological factors affecting post harvest commodities storage issues pest management food processing and preservation food systems the latest research and assimilation of this work and current trade and international agreements An invaluable glossary showing important pests pathogens and plants is also included Crop Post Harvest Science and Technology Volume 1 Principles and Practice is a must have reference book which offers the reader an overview of the globalisation of post harvest science technology economics and the development of the storage and handling of perishable and durable products Volumes 2 and 3 will go on to explore durables and perishables individually in more detail with many case studies taken from around the globe This 3 volume work is the standard handbook and reference for all professionals involved in the harvesting shipping storage and processing of crops including agricultural and plant scientists food scientists and technologists microbiologists plant pathologists entomologists and all post harvest shipping and storage consultants Libraries in all universities and research establishments where these subjects are studied and taught should have multiple copies on their shelves *Postharvest Management Of Fruits And Vegetables* V.K.

Joshi, 2021-06-18 Section 1 Postharvest Management of Fruits and Vegetables 1 Introduction V K Joshi 2 Postharvest Management of Fruits and Vegetables V K Joshi and Ghan Shyam 3 Harvest Indices Maturity and Post harvest Quality of Fruits and Vegetables K S Thakur and Satish Kumar 4 Recent Trends in Harvesting Grading and Packaging of Fruits and Vegetables B V C Mahajan and Swati Kapoor 5 Postharvest Handling and Storage of Fruits and Vegetables K S Thakur and Satish Kumar 6 Storage Systems for Fruits and Vegetables A Practical Approach B V C Mahajan and Swati Kapoor 7 Postharvest Management and Value Addition of Vegetables Manisha Kaushal and Anil Gupta Section 2 Preservation and Processing Technology 8 Fruits and Vegetables Preservation and Processing An Overview V K Joshi and Sarita Sharma 9 Preservation of Fruits and Vegetables Pushpinder S Ranote and Swati Kapoor 10 Thermal Processing Preservation by Application of Heat P C Sharma and Anil Gupta 11 Recent Advances in Drying and Dehydration of Fruits and Vegetables Devina Vaidya Ghanshyam Abrol and Vigya Mishra 12 Concentration of Fruit and Vegetable Juices Concepts and Trends S K Sharma and Deepa Saini 13 Technology for the Production of Preserves Candies Leathers and Toffee Surekha Attri Satish Kumar and Preethi Ramachandran 14 Development of Technology for Drying of Chilgoza Nut N S Thakur and Somesh Sharma 15 Development of Value Added Products from Wild Pomegranate N S Thakur and Abhimanyu Thakur 16 Minimal Processing of Fruits and Vegetables Anju K Dhiman Surekha Attri and Preethi Ramachandran 17 Mushroom Processing and Value Addition Devina Vaidya and Surabhi Sharma 18 Emerging Technologies in Food Processing Pushpinder S Ranote Swati Kapoor Jaspreet Kaur Sukhpreet Kaur and Hanuman Bobade Section 3 Production of Health Foods 19 Low Calorie Health Foods and Nutraceuticals from Fruits and Vegetables Rakesh Sharma 20 Lactic Acid Fermentation of Food Biopreservation Health Benefits and Bacteriocins V K Joshi Somesh Sharma Arjun Chauhan Vikas Kumar and Sarita Sharma 21 Pre and

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**Sustainable Postharvest Technologies for Fruits and Vegetables**

Sajid Ali, Shabir Ahmad Mir, B.N. Dar, Shaghef Ejaz, 2024-08-30 Fruits and vegetables commonly termed as fresh produce are an important component of the human diet as these provide various beneficial and essential health related compounds. Nevertheless, fresh produce is susceptible to postharvest deterioration and decay along with loss of certain nutrients due to inappropriate storage conditions and lack of standard postharvest technologies. In addition, the short shelf life is considered another major constraint that must be extended after harvest to ensure a wider availability window of the fresh produce for consumers. From this perspective, the use of postharvest approaches is considered imperative to reduce the deterioration of harvested fresh produce in order to extend their storage and shelf life potential on a sustainable basis. Sustainable

Postharvest Technologies for Fruits and Vegetables covers various aspects of postharvest technologies with major developments over the recent past and provides a way forward for the future. The sustainable use of various technologies and elicitors could be adapted from farm to fork in order to conserve the eating quality of fresh produce. Therefore, this book covers various sustainable postharvest treatments and technologies that could be considered highly effective for the delay of postharvest senescence and deterioration. Among the various technologies, the use of preharvest treatments, controlled atmosphere, dynamic control atmosphere, modified atmosphere, and hypobaric conditions has tremendous potential for the fresh fruits and vegetables industry. In the same way, cold plasma, pulsed light, ultraviolet light, ultrasound technology, nanoemulsions, nano packaging, electrolyzed water, high pressure processing, ozone gas irradiations, edible coatings, vacuum packaging, and active packaging with slow releasing compounds along with nanotechnology are highly practicable and possess tremendous potential to be used in the maintenance of overall eating quality and storage life extension of the fresh produce. Key Features: Overviews the major factors affecting postharvest physiology and shelf life potential of fresh produce; Focuses on major sustainable technologies having the potential to maintain postharvest quality and extend shelf life of fruits and vegetables; Describes practical and recent advances of various approaches indispensable for the maintenance of overall eating quality and food safety attainment for fresh produce on a sustainable basis; Covers how quality maintenance and shelf life rely on preharvest practices, nonthermal treatments, storage atmospheres, packaging materials, active packaging, edible packaging, coating application techniques, nanotechnology, and ecofriendly plant extracts and natural antagonists.

*Emerging Postharvest Treatment of Fruits and Vegetables* Kalyan Barman, Swati Sharma, Mohammed Wasim Siddiqui, 2018-09-19. With the increasing need and demand for fresh fruits and vegetables, the field of postharvest science is continuously evolving. Endeavors are being made by scientists involved in postharvest research for maintenance of the quality and safety of fresh horticultural produce to enhance the postharvest life and to extend the availability of the produce in both time and space. This volume, *Emerging Postharvest Treatment of Fruits and Vegetables*, addresses the demand for the development and application of effective technologies for preservation of perishable food products, particularly fresh fruits and vegetables. It provides an abundance of up-to-date information about postharvest treatments. The chapters discuss a number of innovative technologies to prolong and enhance postharvest fruits and vegetables. This book will be valuable for those concerned with horticulture and postharvest technology. It provides essential information for students, teachers, professors, scientists, and entrepreneurs engaged in fresh horticultural produce handling related to this field. *Post-harvest Technologies of Fruits & Vegetables* Hosahalli S. Ramaswamy, 2014-10-12. Best practices for preserving quality and consumer appeal of fresh fruits and vegetables. Clarifies calculations for efficient cooling, controlled ripening, and storage. Presents strategies for reducing microbial risks and post-harvest pathologies. A comprehensive introduction to established and emergent post-harvest technologies. This text shows how to enhance the value of perishable fruits and vegetables by mitigating the causes of

deterioration and spoilage from farm to point of purchase After investigating the structural chemical and nutritional properties of fruits and vegetables the book provides a step by step explanation of processing from machine harvesting through handling ripening technologies packaging and distribution Emphasis is placed on ways to collect data needed to monitor quality Psychrometric principles and their role in cold storage systems are presented along with calculations enabling effective refrigeration and control of transpiration humidity and gases The book includes examples and calculations for improving process control and predicting the shelf life of temperate climate and tropical fruits and vegetables

**Advances in Postharvest Fruit and Vegetable Technology** Ron B.H. Wills, John Golding, 2016-02-03 Advances in Postharvest Fruit and Vegetable Technology examines how changes in community attitudes and associated pressures on industry are demanding changes in the way technology is used to minimize postharvest loss and maintain product quality In particular the book discusses important drivers for change including Using more natural chemicals or physical treatments to replace synthetic chemicals Increasing the efficiency of older more traditional methods in combination with newer biocontrol treatments Leveraging a range of biomolecular research tools or omics to efficiently gather and assess mass information at molecular enzymic and genetic levels Using modelling systems to identify key changes and control points for better targeting of new treatments and solutions to postharvest problems The postharvest handling of fresh fruits and vegetables plays a critical role in facilitating a continuous supply of high quality fresh produce to the consumer Many new technologies developed and refined in recent years continue to make possible an ever expanding supply of fresh products This volume examines a range of recently developed technologies and systems that will help the horticulture industry to become more environmentally sustainable and economically competitive and to minimize postharvest quality loss and generate products that are appealing and acceptable to consumers

**Postharvest Management of Fresh Produce** Bhim Pratap Singh, Shekhar Agnihotri, Garima Singh, Vijai Kumar Gupta, 2023-07-29 Postharvest Management of Fresh Produce Recent Advances critically addresses the latest issues challenges and technological advancements in postharvest management of fresh commodities especially fruits nuts and vegetables The book covers the intriguing correlation of preharvest treatments maturity indices and postharvest operations that significantly affect the postharvest quality of fresh produce Further topics include packaging logistics and storage technologies the role of microbial communities and omics strategies in postharvest disease management Special attention is given to the latest trends of nanotechnology internet of things IoTs and blockchain technologies in food supply chain management of perishable products The book is a great resource for young and experienced professionals in academia industry and UG PG students to explore a diversified range of topics in postharvest strategies relevant to food processing food technologies agro processing and quality control Thoroughly explores major preharvest losses due to non availabilities of the latest technologies Describes the latest trends in the supply chain to minimize preharvest losses Provides an overview on smart technologies such as nanotechnology IoTs and blockchain

technology     Emerging Trends in Post Harvest Technologies and Applications ,2025     **Postharvest Biology and Nanotechnology** Gopinadhan Paliyath,Jayasankar Subramanian,Loong-Tak Lim,K. S. Subramanian,Avtar K. Handa,Autar K. Mattoo,2018-10-25 A comprehensive introduction to the physiology biochemistry and molecular biology of produce growth paired with cutting edge technological advances in produce preservation Revised and updated the second edition of Postharvest Biology and Nanotechnology explores the most recent developments in postharvest biology and nanotechnology Since the publication of the first edition there has been an increased understanding of the developmental physiology biochemistry and molecular biology during early growth maturation ripening and postharvest conditions The contributors noted experts in the field review the improved technologies that maintain the shelf life and quality of fruits vegetables and flowers This second edition contains new strategies that can be implemented to remedy food security issues including but not limited to phospholipase D inhibition technology and ethylene inhibition via 1 MCP technology The text offers an introduction to technologies used in production practices and distribution of produce around the world as well as the process of senescence on a molecular and biochemical level The book also explores the postharvest value chain for various produce quality evaluation techniques and the most current nanotechnology applications This important resource Expands on the first edition to explore in depth postharvest biology with emphasis on developments in nanotechnology Contains contributions from leaders in the field Includes the most recent advances in postharvest biology and technology including but not limited to phospholipase D and 1 MCP technology Puts the focus on basic science as well as technology and practical applications Applies a physiology biochemistry and biotechnology approach to the subject Written for crop science researchers and professionals horticultural researchers agricultural engineers food scientists working with fruits and vegetables Postharvest Biology and Nanotechnology Second Edition provides a comprehensive introduction to this subject with a grounding in the basic science with the technology and practical applications     **Advances in Postharvest Technologies of Vegetable Crops** Bijendra Singh,Sudhir Singh,2018-05-24 This book presents a selection of innovative postharvest management practices for vegetables It covers technologies in harvesting handling and storage of vegetables including strategies for low temperature storage of vegetables active and smart packaging of vegetables edible coatings application of nanotechnology in postharvest technology of vegetable crops and more It considers most of the important areas of vegetable processing while maintaining nutritional quality and addressing safety issues Fruits and vegetables are important sources of nutrients such as vitamins minerals and bioactive compounds which provide many health benefits However due to poor postharvest management such as non availability of cold chain management and low cost processing facilities large quantities of vegetables perish before they reach the consumer Furthermore higher temperatures in some regions also contribute to an increased level of postharvest losses With chapters written by experts in the postharvest handling of vegetable this volume addresses these challenges It is devoted to presenting both new and innovative technologies as well as advancements in



traditional technologies      *Postharvest Technology of Perishable Horticultural Commodities* Elhadi M. Yahia,2019-07-16  
Postharvest Technology of Perishable Horticultural Commodities describes all the postharvest techniques and technologies available to handle perishable horticultural food commodities It includes basic concepts and important new advances in the subject Adopting a thematic style chapters are organized by type of treatment with sections devoted to postharvest risk factors and their amelioration Written by experts from around the world the book provides core insights into identifying and utilizing appropriate postharvest options for maximum results Presents the most recent developments in processing technologies in a single volume Includes a wide range of perishable products thus allowing for translational insight

Appropriate for students and professionals Written by experts as a reference resource      **Postharvest Management Approaches for Maintaining Quality of Fresh Produce** Mohammed Wasim Siddiqui,Jesus Fernando Ayala

Zavala,Cheng-An (Andy) Hwang,2016-02-24 The volume presents existing and novel management approaches that are in use or have a great potential to be used to maintain the postharvest quality of fresh produce in terms of microbiological safety nutrition and sensory quality In comparison to traditional synthetic chemicals these eco friendly molecules are equally effective with respect to slowing the physiological and biochemical changes in harvested produce Application of terpenic compounds phenolic compounds salicylic acid methyl jasmonates hydrogen peroxide ethanol sulphur compounds polyamines plant growth regulators active carbohydrates ozone hexanal and nitric oxide have been proven effective in minimizing storage disorders like chilling injury scald fungal diseases like stem end rot blue mould rot green mould rot anthracnose regulation of ripening and senescence etc This book will be a standard reference work for the management of shelf life in the fresh produce industry      Postharvest Biology and Technology of Temperate Fruits Shabir Ahmad Mir,Manzoor Ahmad

Shah,Mohammad Maqbool Mir,2018-05-29 This edited volume provides insight into temperate fruits with an emphasis on postharvest physiology storage packaging and technologies for maintaining fruit quality Chapters are devoted to individual fruits and focus on fundamental issues such as methods for maintaining or enhancing quality minimizing postharvest losses and recommended technologies to boost demand Contributions come from experts in the field making this a key reference for all aspects of postharvest management of temperate fruits The volume is unique in its focus on the biodiversity nutritional and health benefits and postharvest technologies for shelf life enhancement of temperate fruits Contributing authors address the postharvest biology and technology of individual temperate fruits such as plum cherry peach apricot apple pear quince loquat kiwi persimmon and berries There has been tremendous growth in the research and development of new techniques to maintain the quality of temperate fruits from farm to table Contributions from experts in the field cover these recent advances providing up to date and relevant information for researchers postharvest fruit technologists food scientists postgraduate students and others working in the industry      Recent Advances in Postharvest Technologies, Volume 1

Noureddine 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 has 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.

**Crop Post-Harvest: Science and Technology, Volume 3** Debbie Rees, Graham Farrell, John Orchard, 2012-03-26

International trade in high value perishables has grown enormously in the past few decades. In the developed world, consumers now expect to be able to eat perishable produce from all parts of the world and in most cases throughout the year. Perishable plant products are, however, susceptible to physical damage and often have a potential storage life of only a few days. Given their key importance in the world economy, Crop Post Harvest Science and Technology Perishables devotes itself to perishable produce, providing current and comprehensive knowledge on all the key factors affecting post-harvest quality of fruits and vegetables. This volume focuses explicitly on the effects and causes of deterioration, as well as the many techniques and practices implemented to maintain quality through correct handling and storage. As highlighted throughout, regular losses caused by post-harvest spoilage of perishable products can be as much as 50%. A complete understanding as provided by this excellent volume is therefore vital in helping to reduce these losses by a significant percentage. Compiled by members of the world-renowned Natural Resources Institute at the United Kingdom's University of Greenwich, with contributions from experts around the world, this volume is an essential reference for all those working in the area. Researchers and upper-level students in food science, food technology, post-harvest science and technology, crop protection, applied biology, and plant and agricultural sciences will benefit from this landmark publication. Libraries in all research establishments and universities where these subjects are studied and taught should ensure that they have several copies for their shelves.

**Fruit and Vegetables, 2 Volume Set** Anthony Keith Thompson, 2014-11-17

Completely revised, updated, and enlarged, now encompassing two volumes, this third edition of Fruit and Vegetables reviews and evaluates in comprehensive detail postharvest aspects of a very wide international range of fresh fruit and vegetables as it applies to their physiology, quality, technology, harvest, maturity, determination, harvesting methods,

packaging postharvest treatments controlled atmosphere storage ripening and transportation The new edition of this definitive work which contains many full colour photographs and details of species not covered in the previous editions provides key practical and commercially oriented information of great use in helping to ensure that fresh fruit and vegetables reach the retailer in optimum condition with the minimum of deterioration and spoilage With the constantly increasing experimental work throughout the world the book incorporates salient advances in the context of current work as well as that dating back over a century to give options to the reader to choose what is most relevant to their situation and needs This is important because recommendations in the literature are often conflicting part of the evaluation of the published results and reviews is to guide the reader to make suitable choices through discussion of the reasons for diverse recommendations Also included is much more on the nutritional values of fruit and vegetables and how these may vary and change postharvest There is also additional information on the origin domestication and taxonomy of fruit and vegetables putting recommendations in context Fruits and Vegetables 3e is essential reading for fruit and vegetable technologists food scientists and food technologists agricultural scientists commercial growers shippers packhouse operatives and personnel within packaging companies Researchers and upper level students in food science food technology plant and agricultural sciences will find a great deal of use within this popular book All libraries in research establishments and universities where these subjects are studied and taught should have copies readily available for users [Handbook of Postharvest Technology](#) Amalendu Chakraverty, Arun S. Mujumdar, Hosahalli S. Ramaswamy, 2003-01-22 The Handbook of Postharvest Technology presents methods in the manufacture and supply of grains fruits vegetables and spices It details the physiology structure composition and characteristics of grains and crops The text covers postharvest technology through processing handling drying and milling to storage packaging and distribution Additionally it examines cooling and preservation techniques used to maintain the quality and the decrease spoilage and withering of agricultural products

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### **Emerging Trends In Postharvest Procebing And Utilisation Of Plant Foods Introduction**

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