

# Preservation of Foods with Pulsed Electric Fields

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# **Preservation Of Foods With Pulsed Electric Fields**

**Yicheng Fang** 

#### **Preservation Of Foods With Pulsed Electric Fields:**

**Preservation of Foods with Pulsed Electric Fields**, 1999-05-25 Preservation of Foods with Pulsed Electric Fields discusses the basics of high voltage PEF as a low temperature food processing method and the application of this technology in food preservation This technology is attracting a great deal of interest around the world because it is more cost effective than conventional systems due to the conservative nature of PEF This book thoroughly covers the electrical and food engineering aspects as well as the food science components i e food microbiology enzyme inactivation kinetics and sensory evaluation Fundamentals of high intensity pulsed electric fields Design of PEF processing equipment Biological principles for microbial inactivation in electric fields PEF induced biological changes PEF inactivation of vegetable cells spores and enzymes in foods Food processing by PEF HACCP in PEF processing PEF in the food industry for the new millennium

Preservation of Foods with Pulsed Electric Fields Gustavo V. Barbosa-Cánovas,1999 Preservation of Foods with Pulsed Electric Fields discusses the basics of high voltage PEF as a low temperature food processing method and the application of this technology in food preservation This technology is attracting a great deal of interest around the world because it is more cost effective than conventional systems due to the conservative nature of PEF This book thoroughly covers the electrical and food engineering aspects as well as the food science components i e food microbiology enzyme inactivation kinetics and sensory evaluation Food Preservation by Pulsed Electric Fields H.L.M. Lelieveld, S Notermans, SWH De Haan, 2007-10-25 Pulsed electric field PEF food processing is a novel non thermal preservation method that has the potential to produce foods with excellent sensory and nutritional quality and shelf life This important book reviews the current status of the technology from research into product safety and technology development to issues associated with its commercial implementation Introductory chapters provide an overview of the process and its history Part one then discusses the technology of PEF food preservation with chapters on circuitry and pulse shapes chamber design and technical and safety requirements. The second part of the book focuses on important product safety and quality issues such as probable mechanisms of microbial inactivation by PEF adaptation potential of microorganisms treated by this method toxicological aspects the impact on food enzymes and shelf life Chapters in the final part of the book cover topics relating to the commercialisation of the technology including current and future applications pitfalls economic issues and scaling up and public and regulatory acceptance Food preservation by pulsed electric fields is a standard reference for all those involved in research into PEF food processing and its commercialisation Reviews the current status of PEF technology with an overview of the process and its history Discusses the technology involved in PEF food preservation Focuses on important product safety and quality issues such as the impact on food enzymes and shelf life **Pulsed Electric Fields in Food Processing** Gustavo V. Barbosa-Canovas, Q. Howard Zhang, 2019-09-17 Pulsed Electric Fields PEF is one of the nonthermal processing approaches that is receiving considerable attention by scientists government and the food industry as a potential technique

to be fully adopted to process foods at the industrial level PEF presents a number of advantages including minimal changes Pulsed Electric Fields Technology for the Food Industry Javier Raso-Pueyo, Volker to fresh foods inactivation of a wi Heinz, 2010-04-30 In an attempt to improve or replace existing food processing methods several novel technologies have been investigated Some of these emerging technologies have become alternative means of developing new foods or improving the safety and quality of existing ones while reducing energy consumption for the food industry Among all emerging nonthermal technologies high intensity pulsed electric fields PEF is one of the most appealing due to its short treatment times and reduced heating effects Its capability to enhance extraction processes and to inactivate microorganisms at temperatures that do not cause any deleterious effect on flavor color or nutrient value of foods opens interesting possibilities for the food processing industry Pulsed Electric Fields Technology for the Food Industry presents the information accumulated on PEF during the last 15 years by experienced microbiologists biochemists food technologists and electrical and food engineers It offers to anyone interested in this subject a comprehensive knowledge in this field **Pulsed Electric Fields in Food Processing** Gustavo V. Barbosa-Cánovas,2000 Food Preservation Techniques Peter Zeuthen, Leif Bøgh-Sørensen, 2003-10-30 Extending the shelf life of foods whilst maintaining safety and quality is a critical issue for the food industry As a result there have been major developments in food preservation techniques which are summarised in this authoritative collection The first part of the book examines the key issue of maintaining safety as preservation methods become more varied and complex The rest of the book looks both at individual technologies and how they are combined to achieve the right balance of safety quality and shelf life for particular products Provides an authoritative review of the development of new and old food preservation technologies and the ways they can be combined to preserve particular foods Examines the emergence of a new generation of natural preservatives in response to consumer concerns about synthetic additives Includes chapters on natural antimicrobials bacteriocins and antimicrobial enzymes as well as developments in membrane filtration ultrasound and high hydrostatic pressure Advances in Thermal and Non-Thermal Food Preservation Gaurav Tewari, Vijay Juneja, 2008-02-28 Advances in Thermal and Non Thermal Food Preservation provides current definitive and factual material written by experts on different thermal and non thermal food preservation technologies Emphasizing inactivation of microorganisms through the application of traditional as well as newer and novel techniques and their combinations the book s chapters cover thermal food preservation techniques e g retorting UHT and aseptic processing minimal thermal processing e g sous vide processing and non thermal food preservation techniques e g high pressure processing and pulsed technologies Editors Tewari and Juneja give special emphasis to the commercial aspects of non conventional food preservation techniques As the most comprehensive and contemporary resource of its kind Advances in Thermal and Non Thermal Food Preservation is the definitive standard in describing the inactivation of microorganisms through conventional and newer more novel techniques Progress in Food Preservation Rajeev Bhat, Abd Karim

Alias, Gopinadhan Paliyath, 2012-03-05 This volume presents a wide range of new approaches aimed at improving the safety and quality of food products and agricultural commodities Each chapter provides in depth information on new and emerging food preservation techniques including those relating to decontamination drying and dehydration packaging innovations and the use of botanicals as natural preservatives for fresh animal and plant products The 28 chapters contributed by an international team of experienced researchers are presented in five sections covering Novel decontamination techniques Novel preservation techniques Active and atmospheric packaging Food packaging Mathematical modelling of food preservation processes Natural preservatives This title will be of great interest to food scientists and engineers based in food manufacturing and in research establishments It will also be useful to advanced students of food science and technology

Emerging Technologies for Food Processing Da-Wen Sun, 2014-08-14 The second edition of Emerging Technologies in Food Processing presents essential authoritative and complete literature and research data from the past ten years It is a complete resource offering the latest technological innovations in food processing today and includes vital information in research and development for the food processing industry. It covers the latest advances in non-thermal processing including high pressure pulsed electric fields radiofrequency high intensity pulsed light ultrasound irradiation and addresses the newest hurdles in technology where extensive research has been carried out Provides an extensive list of research sources to further research development Presents current and thorough research results and critical reviews Includes the most recent technologies used for shelf life extension bioprocessing simulation and optimization **Handbook of Research on Food** Processing and Preservation Technologies Megh R. Goyal, Preeti Birwal, Monika Sharma, 2022-02-28 The Handbook of Research on Food Processing and Preservation Technologies is a 5 volume collection that highlights various design development and applications of novel and innovative strategies for food processing and preservation Together the 5 volumes will prove to be valuable resource for researchers scientists students growers traders processors and others in the food processing industry Handbook of Fruits and Fruit Processing Y. H. Hui, József Barta, M. Pilar Cano, Todd W. Gusek, Jiwan S. Sidhu, Nirmal K. Sinha, 2008-02-28 The processing of fruits continues to undergo rapid change In the Handbook of Fruits and Fruit Processing Dr Y H Hui and his editorial team have assembled over forty respected academicians and industry professionals to create an indispensable resource on the scientific principles and technological methods for processing fruits of all types The book describes the processing of fruits from four perspectives a scientific basis manufacturing and engineering principles production techniques and processing of individual fruits A scientific knowledge of the horticulture biology chemistry and nutrition of fruits forms the foundation A presentation of technological and engineering principles involved in processing fruits is a prelude to their commercial production As examples the manufacture of several categories of fruit products is discussed The final part of the book discusses individual fruits covering their harvest to a finished product in a retail market As a professional reference book replete with the latest research or as a practical

textbook filled with example after example of commodity applications the Handbook of Fruits and Fruit Processing is the current comprehensive yet compact resource ideal for the fruit industry Enhancing Extraction Processes in the Food Industry Nikolai Lebovka, Eugene Vorobiev, Farid Chemat, 2016-04-19 Extraction is an important operation in food engineering enabling the recovery of valuable soluble components from raw materials With increasing energy costs and environmental concerns industry specialists are looking for improved techniques requiring less solvents and energy consumption Enhancing Extraction Processes in the Food Industry is a **Sustainable Food Systems from Agriculture** to Industry Charis M. Galanakis, 2018-01-02 Sustainable Food Systems from Agriculture to Industry Improving Production and Processing addresses the principle that food supply needs of the present must be met without compromising the ability of future generations to meet their needs Responding to sustainability goals requires maximum utilization of all raw materials produced and integration of activities throughout all production to consumption stages. This book covers production stage activities to reduce postharvest losses and increase use of by products streams waste food manufacturing and beyond presenting insights to ensure energy water and other resources are used efficiently and environmental impacts are minimized The book presents the latest research and advancements in efficient cost effective and environmentally friendly food production and ways they can be implemented within the food industry Filling the knowledge gap between understanding and applying these advancements this team of expert authors from around the globe offer both academic and industry perspectives and a real world view of the challenges and potential solutions that exist for feeding the world in the future The book will guide industry professionals and researchers in ways to improve the efficiency and sustainability of food systems Addresses why food waste recovery improves sustainability of food systems how these issues can be adapted by the food industry and the role of policy making in ensuring sustainable food production Describes in detail the latest understanding of food processing food production and waste reduction issues Includes emerging topics such as sustainable organic food production and computer aided process engineering Analyzes the potential and sustainability of already commercialized processes and products Food Preservation and Safety of Natural Products Helen N. Onyeaka, Ozioma F. Nwabor, 2022-06-15 Food Preservation and Safety of Natural Products addresses the most common causes of food spoilage that create significant loss to global food production while also discussing how food serves as a vehicle for the transmission of pathogenic microorganisms responsible for mild to debilitating health conditions in humans The book provides essential information for food safety professionals on issues relating to foodborne diseases and offers potential solutions by presenting various methods of incorporating natural products in food production to prevent the spread of foodborne pathogenic organisms The demand for green consumerism and consumers general distaste for synthetic food additives poses a serious challenge to food safety and preservation Natural products are used as green and sustainable source of bioactive compounds that can be applied in various fields including food The use of plant and other natural products in food preservation is on the

rise hence this book reviews microbial mediated food spoilage foodborne pathogens and food contamination and offers applications of natural products in food preservation Provides important information on microbial metabolic by products natural enzymatic processes to prevent food spoilage or deterioration Includes molecular techniques for antimicrobial and antioxidant applications in food food packaging and edible films Presents the latest evidence based science on the natural products used as additives in food 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 Novel Food Processing Technologies Gustavo V. Barbosa-Canovas, Maria S. Tapia, M. Pilar Cano, 2004-11-30 Reflecting current trends in alternative food processing and preservation this reference explores the most recent applications in pulsed electric field PEF and high pressure technologies food microbiology and modern thermal and nonthermal operations to prevent the occurrence of food borne pathogens extend the shelf life of foods and improve Food Packaging and Preservation Amit K. Jaiswal, Shiv Shankar, 2023-11-16 Food Packaging and Preservation Antimicrobial Materials and Technologies provides a scaffolded introduction to principles of biological science food contamination and their effect on human health as well as nanomaterials natural antimicrobials and emerging non thermal processing methods The book s goal is to help users develop sustainable usage of these materials and technologies It is designed to help researchers in food technology materials science nanoscience and polymer science but it will also be ideal for researchers and developers who develop antimicrobial technologies for food industry applications in particular food packaging and the preservation of food products Thoroughly explores the application of nanomaterials nanocomposites antimicrobial materials from natural sources and emerging non thermal processing technologies Covers nanomaterials natural extracts and their usage in micro and nanoemulsion form Examines non thermal processing methods

and their combinations for food packaging and food preservation Handbook of Food Processing, Two Volume Set Theodoros Varzakas, Constantina Tzia, 2015-11-04 Authored by world experts the Handbook of Food Processing Two Volume Set discusses the basic principles and applications of major commercial food processing technologies. The handbook discusses food preservation processes including blanching pasteurization chilling freezing aseptic packaging and non thermal food processing It describes com Non-Thermal Technologies for the Food Industry C. Anandharamakrishnan, V. R. Sinija, R. Mahendran, 2024-02-29 Depending on the mechanisms involved in non thermal technologies such as ozonization irradiation ultrasound processing plasma processing and advanced oxidative processes interaction with food molecules differs which might lead to desirable reactions Non Thermal Technologies for the Food Industry Advances and Regulations explores the possibility of using non thermal technologies for various purposes such as shelf life extension reduced energy consumption adhesion and safety improvement Further it reviews the present status of these technologies international regulations and sustainability aspects in food processing including global case studies Features Provides a comprehensive overview of all the non thermal processing technologies that have potential for use within food manufacturing Covers novel disinfectant technologies and packaging methods for non thermal processing Includes electro spraying and electrospinning low temperature drying techniques cold plasma techniques hydrodynamic cavitation oscillating magnetic field processing and so forth Focus on topics such as the valorization of agri food wastes and by products and sustainability Reviews ClO2 in combined hybrid technologies for food processing This book is aimed at researchers and graduate students in food and food process engineering

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