



Fig 1: The impact of different Non-Thermal Processing Technologies on foods.

[Image Credit: Barbhuiya, R. I., Singha, P., & Singh, S. K. (2021). A comprehensive review on impact of non-thermal processing on the structural changes of food components. *Food Research International*, 149, 110647.]

Nonthermal Processing Technologies For Food

**Sudip Kumar Pattanayek, Debashis
Dutta, Ajay Singh**



Nonthermal Processing Technologies For Food:

Emerging Thermal and Nonthermal Technologies in Food Processing Prem Prakash Srivastav, Deepak Kumar Verma, Ami R. Patel, Asaad Rehman Al-Hilphy, 2020-05-06 This new volume provides a comprehensive overview of thermal and nonthermal processing of food with new and innovative technologies Recent innovations in thermal as well as nonthermal technologies which are specifically applied for potable water and fluid foods milk juice soups etc are well documented for their high bioavailability of macro and micronutrients and are very promising This volume brings together valuable information on fluid and microbial characteristics and quality dynamics that facilitate the adoption of new technology for food processing Some new technologies and methods covered include the application of microwaves in heating drying pasteurization sterilization blanching baking cooking and thawing microwave assisted extraction of compounds using low electric fields alternation of temperature and pressure of supercritical carbon dioxide ultrasound assisted osmotic dehydration hydrodynamic cavitation high pressure processing gamma irradiation and more The nonthermal technologies discussed have been developed as an alternative to thermal processing while still meeting required safety or shelf life demands and minimizing the effects on nutritional and quality attributes

Nonthermal Processing Technologies for Food Howard Q. Zhang, Gustavo V. Barbosa-Canovas, V. M. Balasubramaniam, C. Patrick Dunne, Daniel F. Farkas, James T. C. Yuan, 2011-02-04 Nonthermal Processing Technologies for Food offers a comprehensive review of nonthermal processing technologies that are commercial emerging or over the horizon In addition to the broad coverage leading experts in each technology serve as chapter authors to provide depth of coverage Technologies covered include physical processes such as high pressure processing HPP electromagnetic processes such as pulsed electric field PEF irradiation and UV treatment other nonthermal processes such as ozone and chlorine dioxide gas phase treatment and combination processes Of special interest are chapters that focus on the pathway to commercialization for selected emerging technologies where a pathway exists or is clearly identified These chapters provide examples and case studies of how new and nonthermal processing technologies may be commercialized Overall the book provides systematic knowledge to industrial readers with numerous examples of process design to serve as a reference book Researchers professors and upper level students will also find the book a valuable text on the subject

Non-thermal Processing of Foods O. P. Chauhan, 2019-01-10 This book presents the latest developments in the area of non thermal preservation of foods and covers various topics such as high pressure processing pulsed electric field processing pulsed light processing ozone processing electron beam processing pulsed magnetic field ultrasonics and plasma processing Non thermal Processing of Foods discusses the use of non thermal processing on commodities such as fruits and vegetables cereal products meat fish and poultry and milk and milk products Features Provides latest information regarding the use of non thermal processing of food products Provides information about most of the non thermal technologies available for food processing Covers food products such as fruits and vegetables

cereal products meat fish and poultry and milk and milk products Discusses the packaging requirements for foods processed with non thermal techniques The effects of non thermal processing on vital food components enzymes and microorganisms is also discussed Safety aspects and packaging requirements for non thermal processed foods are also presented Rounding out coverage of this technology are chapters that cover commercialization regulatory issues and consumer acceptance of foods processed with non thermal techniques The future trends of non thermal processing are also investigated Food scientists and food engineers food regulatory agencies food industry personnel and academia including graduate students will find valuable information in this book Food product developers and food processors will also benefit from this book **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 *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

Non-Thermal Processing of Functional Foods Sudip Kumar Pattanayek, Debashis Dutta, Ajay Singh, 2024-12-31 Functional foods also known as nutraceuticals began to gain prominence in the 1980s in Japan as foods for specified health use and became more widely recognized in the 1990s as research and interest in foods that could provide specific health benefits beyond essential nutrition grew worldwide These foods are typically enriched with bioactive components or formulated to contain substances or live microorganisms with a possible health enhancing or disease preventing value and at a safe and sufficiently high concentration to achieve the intended benefit Usually the added ingredients are classified as nutrients dietary fiber phytochemicals other substances or probiotics The production storage and consumer consumption of these functional foods require special attention to preserve quality attributes The production process of these foods can be classified as conventionally used thermal processing methods and non thermal alternatives In addition these processes may be combined with biological approaches involving enzymatic treatment and fermentation The various non thermal processes such as ultrasounds high hydrostatic pressure vacuum impregnation high voltage electrical discharge cold plasma pulsed light ozonation etc can be utilized for a product to sustain preserve quality attributes of the ingredients long shelf life and sensory qualities This book compiles the latest non thermal processing technologies to develop functional foods The book discusses bioactivity bioaccessibility and bioavailability related to nutrition and functional food ingredients It has 16 articles on different aspects of non thermal processing technologies Chapter 1 has discussed a general overview of emerging technologies and various non thermal processing techniques are discussed in Chapters 2 6 8 9 and 12 Chapters 7 11 13 15 and 16 discuss food safety and preservation We have discussed the functional foods and bioactive compounds in Chapters 10 and 14 A few of these reviews discuss the impact of developing non thermal technologies on several food components proteins carbohydrates lipids minerals vitamins polyphenols glucosinolates fragrance compounds and enzymes while maintaining the structure and functional properties This book is an excellent source of information for professionals postgraduate students and researchers in food sciences and chemical engineering

Non-Thermal Processing of Functional Foods Sudip Kumar Pattanayek, Debashis Dutta, Ajay Singh, 2024-12-31 Functional foods also known as nutraceuticals began to gain prominence in the 1980s in Japan as foods for specified health use and became more widely recognized in the 1990s as research and interest in foods that could provide specific health benefits beyond essential nutrition grew worldwide These foods are typically enriched with bioactive components or formulated to contain substances or live microorganisms with a possible health enhancing or disease preventing value and at a safe and sufficiently high concentration to achieve the intended benefit Usually the added ingredients are classified as nutrients dietary fiber phytochemicals other substances or probiotics The production storage and consumer consumption of these functional foods require special attention to preserve quality attributes The production process of these foods can be classified as

conventionally used thermal processing methods and non thermal alternatives In addition these processes may be combined with biological approaches involving enzymatic treatment and fermentation The various non thermal processes such as ultrasounds high hydrostatic pressure vacuum impregnation high voltage electrical discharge cold plasma pulsed light ozonation etc can be utilized for a product to sustain preserve quality attributes of the ingredients long shelf life and sensory qualities This book compiles the latest non thermal processing technologies to develop functional foods The book discusses bioactivity bioaccessibility and bioavailability related to nutrition and functional food ingredients It has 16 articles on different aspects of non thermal processing technologies Chapter 1 has discussed a general overview of emerging technologies and various non thermal processing techniques are discussed in Chapters 2 6 8 9 and 12 Chapters 7 11 13 15 and 16 discuss food safety and preservation We have discussed the functional foods and bioactive compounds in Chapters 10 and 14 A few of these reviews discuss the impact of developing non thermal technologies on several food components proteins carbohydrates lipids minerals vitamins polyphenols glucosinolates fragrance compounds and enzymes while maintaining the structure and functional properties This book is an excellent source of information for professionals postgraduate students and researchers in food sciences and chemical engineering

Emerging Technologies for the Food Industry C. Anandharamakrishnan, Jeyan Arthur Moses, 2024-04-30 With changing consumer preferences and a focus on developing resilient food systems food processing is finding its place in key policies government interventions global trade and the overall food and nutritional security Given this this new 3 volume set presents a compilation of emerging and futuristic food processing technologies introducing fundamental concepts of food technology trending applications and a range of interdisciplinary concepts that have found numerous interwoven applications in the food industry Volume 2 focuses on nonthermal processing and its applications which includes high pressure processing ultrasound processing high intensity pulsed light technology pulsed electric field processing cold plasma ozone processing as well as the use of sub and supercritical processing It also discusses emerging electrohydrodynamic technologies electrospinning and electrospraying This volume provides rich content on fundamental concepts applications and challenges in nonthermal processing throwing light on the scope of developing sustainable technologies for the food industry The other volumes in the series are Volume 1 Fundamentals of Food Processing Technology which presents the basics of food preservation covering hurdle technology aspects of minimal processing ohmic heating of foods edible coatings and electromagnetics and allied applications in food processing and Volume 3 ICT Applications and Future Trends in Food Processing which provides an exploration of the future of food processing highlighting certain emerging and disruptive technologies and their gaining influence in the food sector

Food Processing Kshirod Kumar Dash, Sourav Chakraborty, 2021-08-09 Advances in thermal and non thermal food processing aims to discuss emerging trends based on the future scope and challenges and to explain uncertain challenges in food processing In thermal processing different operations in food engineering namely advance drying methods evaporation

extrusion cooking different extraction techniques crystallizations are covered in terms food engineering and process modeling aspect For non thermal processing high pressure processing ultrasound ohmic heating pulse electric field pulse light technology osmotic dehydration and so forth are discussed Relevant mathematical modeling and numerical simulations has been included in every chapter Features Presents engineering focus on thermal and non thermal food processing technologies Discusses sub classification for recent trends and relevant industry information examples Describes advances in drying evaporation blanching crystallization and ohmic heating Covers high pressure processing pulse electric field pulse light technology irradiation and ultrasonic techniques Includes mathematical modeling and numerical simulations The book is aimed at graduate students professionals in food engineering and food technology biological systems engineering

Emerging Non-Thermal Food Processing Technologies Asgar Farahnaky, Mahsa Majzoobi, Mohsen

Gavahian, 2024-01-11 There is a strong consumer trend towards high quality and healthy foods with fresh like characteristics On the other hand thermal processing technologies especially conventional ones negatively affect both the sensory and nutritional properties of foods At the same time limited shelf life and safety concerns of fresh foods necessitate food processing Therefore scientists are exploring the possibility of using nonthermal technologies for various purposes such as shelf life extension and safety improvement However their applicability and scalability are still under intensive investigation This reprint presents examples of studies in non thermal emerging food processing technologies It provides practical examples that can help graduate students further understand the concepts involved in emerging non thermal technologies therefore it can be used as a teaching material reference in universities Moreover the benefits of these novel technologies highlighted in this reprint could be utilized by the food industry's R D to enhance academic industry collaborations and possible commercialization

Non-Thermal Processing Technologies for the Dairy Industry M. Selvamuthukumaran, Sajid Maqsood, 2021-11-08 The dairy industry usually adopts conventional methods of processing various milk based food products which can destroy nutrients and minimize organoleptic qualities An alternative approach for this is the non conventional method of non thermal processing techniques Not only does this enhance the nutritional profile of the various processed products but increases the consumer acceptability There are some emerging non thermal processing techniques such as pulsed light cold plasma high pressure processing ultrasonic UV pasteurization or ozone treatments which can be successfully employed in dairy processing industries to enhance product acceptability safety and quality aspects *Non Thermal Processing Technologies for the Dairy Industry* describes several emerging non thermal processing techniques that can be specially employed for the dairy processing industry The book narrates the benefits of using pulsed light cold plasma high pressure and ultrasonic during processing of various dairy products Key Features Addresses techniques used for extraction of functional food components from various dairy products by using super critical CO₂ extraction technology Explains application of ozone and cold plasma technology for treating dairy processing waste waters with efficient recycling

aspects Discusses the importance of using biopreservatives in shelf life extension of several dairy food products Portrays scope and significant importance of adopting UV pasteurization in processing market milk along with safety and environmental impacts over processing This book solves the issue of waste generation in dairy industries and further advises recovery of such waste for efficient recycling process In addition to being useful for dairy technologists it is a great source for academic scholars and students looking to gain knowledge and excel in the non thermal processing area **Special**

Issue: Advances in Research and Applications of Nonthermal Technologies for Food Processing and Preservation

Petros Taoukis,Nikolaos Stoforos,2016 *Non-Thermal Food Processing Technologies* Kaavya Rathnakumar,R.

Pandiselvam,2024-10-03 Various processes are required to preserve and extend the shelf life of food many of which cause detrimental effects on the color and appearance of food Alternative methods for the thermal processing of food are gaining importance day by day due to increased consumer demand for minimally processed fresh like food products with high sensory appearance and nutritional qualities This new book provides an informative overview of non thermal food processing technologies that can preserve food color and appearance The book offers comprehensive coverage of the application of emerging technologies on the color profile of different food products such as fruits vegetables beverages dairy products and meat It discusses the influence and impact of emerging technologies on the color and appearance of foods and beverages along with their challenges and prospects The food processing technologies discussed include cold plasma ultrasound microwave processing ozone processing ohmic heating pulsed light UV irradiation pulsed electric field high pressure processing vacuum frying and others This book *Non Thermal Food Processing Technologies Impact on Color Profile* offers an important context on applying emerging food processing technologies to solve food safety issues and enhance shelf life extension while paying attention to food appearance It is an excellent resource for food engineers and technologists processors nutritionists and food industry professionals for exploring new non thermal techniques Nonthermal Processing in Agri-Food-Bio Sciences Anet Režek Jambrak,2022-09-26 This book addresses important questions on the legislation regulations sustainability technology transfer safety of biomaterials and mechanism of action of nonthermal processing on the molecular level of biomaterials and its impact on health The chapters take an interdisciplinary approach that is of interest to specialists from engineering physics chemistry agriculture life sciences and beyond with a focus on further development of existing and new applications of nonthermal processing and their combination with other methods in the processing of biomaterials agriculture biotechnology and the re use of waste and by products *Nonthermal Processing in Agri Food Bio Sciences Sustainability and Future Goals* aims to boost further developments and applications of nonthermal technologies to develop healthier products to ensure consumer approval for these innovative technologies and to improve the sustainability of biomaterials production The industrial application of nonthermal processing has led to an increase in innovative value products and the overall improvement of production capacity Nonthermal processes use less energy and

chemicals reduce processing times have less environmental impact produce less waste and have the potential for industrial scale up and a return on investment in under 5 years According to The United Nations and the 2030 Agenda for Sustainable Development 17 goals should be incorporated within development projects and researchers are starting to use novel techniques to meet them In covering the fundamental engineering theories underlying nonthermal processing this book will aid in this mission The book overviews the advantages and disadvantages of novel technologies over to sustainability goals to correct steps for the scale up and return on investment The book includes the chemistry and physics of nonthermal processing technologies dedicated to specialists and researchers from a wide range of subject areas Interdisciplinary scientists and engineers sustainability experts can use this text to aid in their work in green technologies **Food Safety**

Management Olga Martín-Belloso, Robert Soliva-Fortuny, Pedro Elez-Martínez, A. Robert Marsellés-Fontanet, Humberto Vega-Mercado, 2013-11-01 Every food manufacturing and processing operation has inherent risks affecting the safety of food products Non thermally processed foods are not exempt of those risks This chapter provides the reader with an overview of various non thermal technologies e g irradiation pulsed electric fields high hydrostatic pressure intense pulsed lights membrane filtration and hurdle technology Each of these technologies has specific critical process parameters that must be monitored as part of critical control points In depth understanding of these technologies is the key while considering their implementation The main challenge on non thermal processes is standardization when compared to thermal treatments Non thermal processes seem to be product specific resulting in additional research work to define process parameters Nevertheless a significant amount of research data are available and specific process conditions can be found in the literature

Nonthermal Preservation of Foods Enrique Palou, 1997-10-06 Written by four experts actively researching alternatives to conventional thermal methods in food preservation Presents information on traditional and emerging nonthermal food processing technologies in a convenient single source volume offering an incisive view of the latest experimental results state of the art applications and new developments in food preservation technology Furnishes a thorough review of nonthermal techniques such as high hydrostatic pressure pulsed electric fields oscillating magnetic fields light pulses ionizing irradiation the use of chemicals and bacteriocins as preservation aids and combined methods hurdle technology

Food Processing Kshirod Kumar Dash, Sourav Chakraborty, 2021-06-27 Non thermal operations in food processing are an alternative to thermal operations and similarly aimed at retaining the quality and organoleptic properties of food products This volume covers different non thermal processing technologies such as high pressure processing ultrasound ohmic heating pulse electric field pulse light membrane processing cryogenic freezing nanofiltration and cold plasma processing technologies The book focuses both on fundamentals and on recent advances in non thermal food processing technologies It also provides information with the description and results of research into new emerging technologies for both the academy and industry Key features Presents engineering focus on non thermal food processing

technologies Discusses sub classification for recent trends and relevant industry information examples Different current research oriented results are included as a key parameter Covers high pressure processing pulse electric field pulse light technology irradiation and ultrasonic techniques Includes mathematical modeling and numerical simulations Food Processing Advances in Non Thermal Technologies is aimed at graduate students professionals in food engineering food technology and biological systems engineering Non-Thermal Processing Technologies for the Meat, Fish, and Poultry Industries M. Selvamuthukumaran, Sajid Maqsood, 2023-10-02 Processed products obtained from meat fish and poultry play a predominant role ascribed to their nutritional profile and sensory characteristics Usually these products are highly perishable and therefore the food industry used traditional thermal methods of heat processing in order to extend the stability of the product to the greatest extent But this traditional method has several disadvantages including undesirable changes in organoleptic characteristics denaturation of the good quality of animal proteins and degradation of several nutritional components Non Thermal Processing Technologies for the Meat Fish and Poultry Industries addresses stability enhancement of meat fish and poultry processed products by implementing a non thermal approach Currently there are several innovative non thermal processing techniques available that can be adopted for enhancing the safety quality of these foods This book presents the various non thermal processing techniques that can be successfully applied to this processing industry including high pressure processing ultrasound irradiation and pulse electric fields It explains how these processes can significantly minimize quality changes without posing any threat to the consumer These techniques can be replaced for traditional thermal processing techniques viz roasting frying boiling and grilling This book benefits food scientists food process engineers academicians students and food industrial professionals by providing in depth knowledge of non thermal processing of foods for meat fish and poultry product quality retention as well as for efficient consumer acceptability The text contains current and emerging trends in the use of non thermal processing techniques for its application in these industries *Non-Thermal Processing Technologies for the Fruit and Vegetable Industry* M. Selvamuthukumaran, 2022-11-02 Fruits and vegetables rapidly spoil due to growth of microorganisms which further render them unsafe for human consumption The traditional methods of food preservation which involves drying canning salting curing and chemical preservation can significantly affect food quality by diminishing nutrients during heat processing This can alter the texture of the products leave chemical residues in the final processed products which in turn has greater impact over consumers safety and health concerns To combat this problem various current non thermal food processing techniques can be employed in fruit and vegetable processing industries to enhance consumer satisfaction for delivering wholesome food products to the market thus increasing demand Non Thermal Processing Technologies for the Fruit and Vegetable Industry introduces the various non thermal food processing techniques especially employed for fruits and vegetables processing industries it deals with the effect of several non thermal processing techniques on quality aspects of processed fruits and vegetable products and keeping quality and

consumer acceptability Key Features Describes the high pressure processing techniques employed for processing fruit and vegetable based beverages Discusses the safety aspects of using various innovative non thermal based technologies for the fruits and vegetables processing industries Explains ozone application cold plasma ultrasound and UV irradiation for fruits and vegetables with their advantages disadvantages process operations mechanism for microbes in activation etc Presents the commercially viable and economically feasible non thermal processing technologies for fruit and vegetable industry This book addresses professors scientists food engineers research scholars students and industrial personnel for stability enhancement of fruit and vegetable based food products by using novel non thermal food processing techniques Readers will come to know the current and emerging trends in use of non thermal processing techniques for its application in several fruit and vegetable based food processing industries

Non-Thermal Processing Technologies for the Grain Industry M. Selvamuthukumar, 2021-08-18 Food can rapidly spoil due to growth of microorganisms and traditional methods of food preservation such as drying canning salting curing and chemical preservation can affect the quality of the food Nowadays various non thermal processing techniques can be employed in grain processing industries to combat this They include pulsed electric field processing high pressure processing ultrasonic processing cold plasma processing and more Such techniques will satisfy consumer demand for delivering wholesome food products to the market Non Thermal Processing Technologies for the Grain Industry addresses these many new non thermal food processing techniques that are used during grain processing and minimize microbial contamination and spoilage Key Features Explains the mechanism involved in application of cold plasma techniques for grain processing and its strategy for inactivation of microbes by using this technique Deals with the effect of incorporation of electric pulses on quality aspects of various grain based beverage products Details the innovative high pressure processing techniques used for extraction of antioxidant from food grains Explores the safety issues and applications of non thermal food processing techniques This book will benefit food scientists food process engineers academicians students as well as anyone else in the food industry by providing in depth knowledge and emerging trends about non thermal processing techniques in various grain based food processing industries

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