

Contemporary Food
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Enhancing Extraction Processes in the Food Industry

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Enhancing Extraction Processes In The Food Industry Contemporary Food Engineering

Charis M. Galanakis

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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 *Computational Fluid Dynamics in Food Processing* Da-Wen Sun, 2018-10-26. Since many processes in the food industry involve fluid flow and heat and mass transfer, Computational Fluid Dynamics (CFD) provides a powerful early stage simulation tool for gaining a qualitative and quantitative assessment of the performance of food processing, allowing engineers to test concepts all the way through the development of a process or system. Published in 2007, the first edition was the first book to address the use of CFD in food processing applications and its aims were to present a comprehensive review of CFD applications for the food industry and pinpoint the research and development trends in the development of the technology to provide the engineer and technologist working in research, development and operations in the food industry with critical, comprehensive and readily accessible information on the art and science of CFD and to serve as an essential reference source to undergraduate and postgraduate students and researchers in universities and research institutions. This will continue to be the purpose of this second edition. In the second edition, in order to reflect the most recent research and development trends in the technology, only a few original chapters are updated with the latest developments. Therefore, this new edition mostly contains new chapters covering the analysis and optimization of cold chain facilities, simulation of thermal processing and modeling of heat exchangers and CFD applications in other food processes. **Handbook of Food Processing** Theodoros

Varzakas, Constantina Tzia, 2015-10-22. Packed with case studies and problem calculations, Handbook of Food Processing: Food Safety, Quality and Manufacturing Processes presents the information necessary to design food processing operations and describes the equipment needed to carry them out in detail. It covers the most common and new food manufacturing processes while addressing relevant *Food Nanotechnology* C. Anandharamakrishnan, S. Parthasarathi, 2019-01-22.

Nanotechnology offers great potential to revolutionize conventional food science and the food industry. The use of nanotechnology in the food industry promises improved taste, flavor, color, texture and consistency of foodstuffs and increased absorption and bioavailability of nutraceuticals. Food Nanotechnology: Principles and Applications examines the current state of nanoscale phenomena and processes, benefits and risks of nanotechnology. This work contains 18 chapters, particularly focused on the design, production and utilization of nanoparticles with specific applications for the food industry. Through several studies, it has been proven that nanotechnology can offer distinct advantages over conventional methods in terms of functionality, targeted delivery of food bioactive compounds, improved food quality characteristics like texture, taste, sensory attributes and improved stability in the gastrointestinal tract and controlled release profiles. Features: Offers clear and

concise coverage on application of nanotechnology in nutrient delivery food packaging and pathogen pesticide detection Addresses both the technological aspects of delivering nano based food products and the societal implications that affect take up Covers broad range of topics including nanoemulsification electrospraying nanocomposites plasma processing and nanosensors Discusses different formulation and preparation methods for loading food bioactive compounds Exploratory in nature this book presents the latest of such data on all aspects of applications of nanotechnology in food systems With its practical focus on the fabrication and application of nanotechnology in food this book is a valuable resource for students researchers food process engineers Functional Ingredients from Algae for Foods and Nutraceuticals Herminia

Dominguez,2013-09-30 Algae have a long history of use as foods and for the production of food ingredients There is also increasing interest in their exploitation as sources of bioactive compounds for use in functional foods and nutraceuticals Functional ingredients from algae for foods and nutraceuticals reviews key topics in these areas encompassing both macroalgae seaweeds and microalgae After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals part one explores the structure and occurrence of the major algal components Chapters discuss the chemical structures of algal polysaccharides algal lipids fatty acids and sterols algal proteins phlorotannins and pigments and minor compounds Part two highlights biological properties of algae and algal components and includes chapters on the antioxidant properties of algal components anticancer agents derived from marine algae anti obesity and anti diabetic activities of algae and algae and cardiovascular health Chapters in part three focus on the extraction of compounds and fractions from algae and cover conventional and alternative technologies for the production of algal polysaccharides Further chapters discuss enzymatic extraction subcritical water extraction and supercritical CO₂ extraction of bioactives from algae and ultrasonic and microwave assisted extraction and modification of algal components Finally chapters in part four explore applications of algae and algal components in foods functional foods and nutraceuticals including the design of healthier foods and beverages containing whole algae prebiotic properties of algae and algae supplemented products algal hydrocolloids for the production and delivery of probiotic bacteria and cosmeceuticals from algae Functional ingredients from algae for foods and nutraceuticals is a comprehensive resource for chemists chemical engineers and medical researchers with an interest in algae and those in the algaculture food and nutraceutical industries interested in the commercialisation of products made from algae Provides an overview of the major compounds in algae considering both macroalgae seaweeds and microalgae Discusses methods for the extraction of bioactives from algae Describes the use of algae and products derived from them in the food and nutraceutical industries Innovative Processing Technologies for Foods with Bioactive Compounds Jorge J. Moreno,2016-08-05 Natural foods like fruits and vegetables represent the simplest form of functional foods and provide excellent sources of functional compounds Maximizing opportunities to make use of and incorporate these compounds requires special processing Fortunately technologies

available to produce food with enhanced active compounds have advanced significantly over the last few years This book covers the fundamentals as well as the innovations made during the last few years on the emerging technologies used in the development of food with bioactive compounds Advances in Processing Technologies for Bio-based Nanosystems in Food Óscar L. Ramos,Ricardo N. Pereira,Miguel A. Cerqueria,José A. Teixeira,António A. Vicente,2019-07-25 Nanotechnology can be used to address challenges faced by the food and bioprocessing industries for developing and implementing improved or novel systems that can produce safer nutritious healthier sustainable and environmental friendly food products This book overviews the most recent advances made on the field of nanoscience and nanotechnology that significantly influenced the food industry Advances in Processing Technologies for Bio Based Nanosystems in Food provides a multidisciplinary review of the complex mechanisms involved in the research development production and legislation of food containing nanostructures systems Features Presents the most recent advances made in the field of nanoscience and nanotechnology as applied to the food industry Discusses innovative approaches and processing technologies Shows how nanotechnology can be used to produce safer nutritious healthier sustainable and environmental friendly food products Covers the complex mechanisms involved in the research development production and legislation of food containing nanostructures Selected examples of nanotechnology applications in food industry are shown focusing on advanced aspects of food packaging processing and preservation followed by one contribution that presents the potential commercialization and the main challenges for scale up Comprised of 15 chapters this book provides much needed and up to date information on the use of emergent technologies in bio based nanosystems for foods and serves as an ideal reference for scientists regulators industrialists and consumers that conduct research and development in the food processing industry Herbs, Spices and Medicinal Plants Mohammad B. Hossain,Nigel P. Brunton,Dilip K. Rai,2020-08-17 The latest research on the health benefits and optimal processing technologies of herbs and spices This book provides a comprehensive overview of the health benefits analytical techniques used and effects of processing upon the physicochemical properties of herbs and spices Presented in three parts it opens with a section on the technological and health benefits of herbs and spices The second part reviews the effect of classical and novel processing techniques on the properties of herbs spices The third section examines extraction techniques and analytical methodologies used for herbs and spices Filled with contributions from experts in academia and industry Herbs Spices and Medicinal Plants Processing Health Benefits and Safety offers chapters covering thermal and non thermal processing of herbs and spices recent developments in high quality drying of herbs and spices conventional and novel techniques for extracting bioactive compounds from herbs and spices and approaches to analytical techniques It also examines purification and isolation techniques for enriching bioactive phytochemicals medicinal properties of herbs and spices synergy in whole plant medicine potential applications of polyphenols from herbs and spices in dairy products biotic and abiotic safety concerns and adverse human health effects and regulation of metal contaminants in terrestrial plant

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Galanakis,2020-11-10 Steviol Glycosides Production Properties and Applications illustrates the health effects of steviol glycosides presenting methods to preserve their stability bioactivity and bioavailability during handling extraction and processing Beginning with biosynthesis metabolism and health uses the book also explores agronomic practices toxicology and pharmacology leaf drying conventional techniques non thermal technologies green recovery membrane clarification technologies chemical and enzymatic modifications stability studies and food applications This book is an excellent resource for food scientists technologists engineers chemists nutritionists new product developers researchers and academics with an interest in understanding steviol glycoside applications in the development of functional foods nutraceuticals and pharmaceuticals Assesses the biosynthesis metabolism and health effects of steviol glycosides Covers three critical dimensions including properties recovery and applications Explores recovery analysis and processing issues also revealing industrial applications **Bulletin of the Central Food Technological Research Institute, Mysore** Central Food

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