Food Processing Enzymes: Recent Developments (Food technology review)

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F. Xavier Malcata

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Recent Advances in Ready-to-Eat Food Technology Hari Niwas Mishra, Pradyuman Kumar, Ajay Singh, 2024-11-28 Ready to Eat RTE describes foods that need not be cooked reheated or otherwise prepared before consuming them Recent Advances in Ready to Eat Food Technology covers all the aspects of RTE from statistics method of production mechanization thermal and non thermal processing gluten free consumer behavior control of foodborne illness and hygiene packaging requirements and improved functionalization to application of nanotechnology Key Features Covers the development of ready to eat products from meat cereal fruits vegetables dairy and pulses Provides a global review of labeling and packaging for ready to eat products Discusses hygienic design and safety in the production and consumption with an emphasis on pathogenicity issues Written by a team of well recognized researchers who present the latest advances in RTE food product development this book is of interest to industry professionals and academicians as well as to undergraduate students and postgraduate researchers Biotechnology in Food Science and Technology Robert D. Warmbrodt, 1991 Processing Technology P.J. Fellows, 2022-06-18 Food Processing Technology Principles and Practice Fifth Edition includes emerging trends and developments in food processing The book has been fully updated to provide comprehensive up to date technical information For each food processing unit operation theory and principles are first described followed by equipment used commercially and its operating conditions the effects of the operation on micro organisms and the nutritional and sensory qualities of the foods concerned Part I describes basic concepts Part II describes operations that take place at ambient temperature Part III describes processing using heat Part IV describes processing by removing heat and Part V describes post processing operations This book continues to be the most comprehensive reference in the field covering all processing unit operations in a single volume The title brings key terms and definitions sample problems recommended further readings and illustrated processes Presents current trends on food sustainability environmental considerations changing consumer choices reduced packaging and energy use and functional and healthy plant based foods Includes highly illustrated line drawings and or photographs to show the principles of equipment operation and or examples of equipment that is used commercially Contains worked examples of common calculations Food Processing Waste and Utilization Sanju Bala Dhull, Ajay Singh, Pradyuman Kumar, 2022-10-24 Because of its high Chemical Oxygen Demand COD and sheer volume waste from food processing has significant potential to pollute land water and air Both environmentally and economically it is important to properly treat food processing wastes including the recovery of valuable products Food Processing Waste and Utilization Tackling Pollution and Enhancing Product Recovery discusses possible solutions to tackle food waste generation and its further utilization It addresses process engineering economics microbiology of waste recycling biochemical and nutritional aspects of food waste processing The book includes detailed guidance and case studies about utilization valorization of food waste Key Features Covers modern as well as conventional methods of food industry waste

utilization Discusses possible solutions to tackle food waste generation and its further utilization Addresses socioeconomic considerations environmental concerns and discusses regulations related to food processing waste Authors of this book are well recognized researchers in their specific fields who have made important contributions to the knowledge of utilization of different food industry wastes at different levels This book covers a wide range of breakthroughs in waste management and is of value for students research scholars postdoctoral fellows and faculties pursuing careers in fields such as Bioprocess Technology Food Technology Food Science and Technology Food Biotechnology and Fermentation and Bioengineering

Catalog. Supplement Food and Nutrition Information Center (U.S.), 1973 Includes bibliography and indexes subject personal author corporate author title and media index Quick Bibliography Series ,1976 Enzymes in Food and Beverage Processing Muthusamy Chandrasekaran, 2015-10-23 Biotechnology particularly eco friendly enzyme technologies has immense potential for the augmentation of diverse food products utilizing vast biodiversity resolving environmental problems owing to waste disposal from food and beverage industries In addition to introducing the basic concepts and fundamental principles of enzymes Enzymes in Foo Biotechnology in Food Science & Technology, 1981-1986 Susan Whitmore, 1986 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 Microbial Enzymes as Potential Biotherapeutics in Human Healthcare Dileep Francis, Sabu Abdulhameed, Jayachandran K, 2025-08-04 This book comprehensively reviews the diverse potential of microbial enzymes with the applications covering their production purification and utilization It examines their roles in combating various diseases including inflammation bacterial infections cardiovascular conditions and thrombotic disorders The book highlights their pharmaceutical applications in drug formulation and bioactive compound production with the aim of enhancing drug bioavailability stability and efficacy Furthermore the book explores the potential of microbial fibrinolytic enzymes to revolutionize treatments for thrombotic disorders It also outlines the applications of microbial enzymes in targeting cancer cells emphasizing their pivotal role in innovative treatment modalities Additionally the book presents the therapeutic applications of microbial lipases from their use in lipid lowering medications to the creation of lipase based pharmaceuticals The chapters discuss the potential of microbial uricases in managing uric acid related disorders and the contribution of microbial enzymes in enhancing digestion and alleviating digestive disorders Finally the book delves into the vital role of regulatory authorities and intellectual property rights IPR in the commercialization of therapeutic microbial enzymes As such this book serves as a valuable resource for researchers professionals and students of microbiology biotechnology and pharmaceutical sciences Key Features Reviews the therapeutic potential of microbial enzymes and their production and purification Examines the roles of microbial enzymes in combating a wide range of diseases including inflammation bacterial infections cardiovascular conditions and thrombotic disorders Highlights the pharmaceutical applications of microbial enzymes focusing on drug formulation and the production of bioactive compounds to enhance drug bioavailability stability and efficacy Explores the therapeutic applications of microbial lipases from lipid lowering medications to the creation of lipase based pharmaceuticals Presents the vital role of regulatory authorities and intellectual property rights IPR in the commercialization of therapeutic **Enzymes in Food Processing and Products** Henry Wieland, 1972 microbial enzymes **Value-Addition in** Agri-Food Industry Waste Through Enzyme Technology Mohammed Kuddus, Pramod W. Ramteke, 2023-02-08 Value Addition in Agri Food Industry Waste through Enzyme Technology Volume Three explores advances in the production of high value added products from agri food industry waste residues using enzyme technology Waste materials used in hydrogen production are categorized as agricultural waste municipal waste industrial waste and other hazardous wastes The book explores advances in value addition to waste materials and includes utilization of industrial agricultural and municipal waste for its bioconversion using enzyme technology This book assembles the novel sources and technologies involved in value added products formation from specific waste materials making it an essential reference to professionals scientists and

academics in agri food and related industries Provides biotechnological tools used in valorizing waste for the agri food industry Presents novel and eco friendly alternative processes to produce value added products by food waste utilization Discusses valuable molecules from agriculture and food industry residues as a future sustainable solution to improve public Catalogue of Research Literature for Development: Food production and health and protect the environment nutrition United States. Agency for International Development. Bureau for Technical Assistance, 1976 Food Process Engineering F. Xavier Malcata, 2020-12-13 Food Process Engineering Safety Assurance and Complements pursues a logical sequence of coverage of industrial processing of food and raw material where safety and complementary issues are germane Measures to guarantee food safety are addressed at start and the most relevant intrinsic and extrinsic factors are reviewed followed by description of unit operations that control microbial activity via the supply of heat supply or the removal of heat Operations prior and posterior are presented as is the case of handling cleaning disinfection and rinsing and effluent treatment and packaging complemented by a brief introduction to industrial utilities normally present in a food plant Key Features Overviews the technological issues encompassing properties of food products Provides comprehensive mathematical simulation of food processes Analyzes the engineering of foods at large and safety and complementary operations in particular with systematic derivation of all relevant formulae Discusses equipment features required by the underlying processes Comprehensive Biotechnology, 2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and practice of biotechnology. The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field **Enzymes in Food Technology** Mohammed Kuddus, 2018-11-19 The integration of enzymes in food processing is well known and dedicated

research is continually being pursued to address the global food crisis This book provides a broad up to date overview of the enzymes used in food technology It discusses microbial plant and animal enzymes in the context of their applications in the food sector process of immobilization thermal and operational stability increased product specificity and specific activity enzyme engineering implementation of high throughput techniques screening of relatively unexplored environments and development of more efficient enzymes Offering a comprehensive reference resource on the most progressive field of food technology this book is of interest to professionals scientists and academics in the food and biotech industries **Food and Nutrition Information and Educational Materials Center catalog** Food and Nutrition Information Center (U.S.).,1976

Advanced Research Methods in Food Processing Technologies Junaid Ahmad Malik, Megh R. Goyal, Preeti Birwal, Ritesh B. Watharkar, 2024-02-06 This new volume presents new studies and research cases on advanced technologies for food processing and preservation to maintain and improve food quality extend shelf life and provide new solutions to food processing challenges The volume discusses cold plasma and ultrasound processing of foods introducing new food processing technologies and applications It also elaborates on microwave processing of foods describing applications potential and intermittent microwave drying of fruits Other new research focusses on high pressure processing electrospinning technology in foods encapsulation techniques impact of freezing and thawing processes on textural properties of food products 3D printing of foods enzyme linked immunosorbent assay ELISA in food authentication and state of the art applications of nanotechnology in food processing *Integrated Waste Management Approaches for Food and Agricultural Byproducts* Tawheed Amin, Omar Bashir, Shakeel Ahmad Bhat, Muneeb Ahmad Malik, 2023-06-23 Food wastage has become a major problem with about one third of all food produced for human consumption going to waste leading to major socioeconomic and environmental consequences in an increasingly resource constrained world This volume embraces integrated management as a solution to food and agricultural wastage It presents methods to lessen reuse recycle and manage wastage by merging and employing a variety of suitable methods equipment and organizational plans The volume begins with a global overview of the characterization of food and agricultural wastes It then delves into using food processing applications that use byproducts as sources of valuable bioenergy and recoverable products It explores methods for reducing reusing and recycling waste along with basic and modern environmental practices for food and agricultural waste management Chapters discuss food waste management in conjunction with enhancing food security and sustainability and management strategies that offset the impact of food and agricultural wastes on the environment Finally the book looks at the challenges and opportunities that are associated with food and agricultural waste management across the globe

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