

Developments in
membrane processes
for food applications



- New membranes (e.g. ...)
- New devices (e.g. su... pulsed ED)
- New products (e.g. n...)
- New pretreatments
- ...



- Treatment of sugar vinasse
- ...

Membrane Applications And Research In Food Processing

A.F. Ismail, Takeshi Matsuura



Membrane Applications And Research In Food Processing:

Membrane Applications and Research in Food Processing Charles M. Mohr, 1989 An assessment of membrane applications for food processing intended to aid in planning separations research and development projects aimed at reducing energy consumption in the food industry The assessment is organized according to Standard Industry Classification SIC Code for the food industry *Applications of Membrane Technology for Food Processing Industries* M. SELVAMUTHUKUMARAN, 2020-10-14 Membranes processing techniques are used to help separate chemical components based on molecular size under specific pressure A great advantage of membrane processing techniques is that it is a non thermal processing technique which can retain enormous bioactive constituents to a greater extent Being a less energy intensive process this technique is widely used in several food processing industries such as in the clarification of fruit juices and wine the concentration of milk the preparation of whey protein concentrate and water and waste treatment among others Applications of Membrane Technology for Food Processing Industries introduces membrane processing techniques presenting principles theory and operational conditions for achieving efficient quality product It discusses different types of membrane processing techniques viz reverse osmosis nanofiltration ultrafiltration electro dialysis microfiltration pervaporation including its applications advantages and disadvantages Key Features Deals with the retention of antioxidants by using novel membrane processing techniques Includes the application of membrane processing techniques in whey processing Explains the method for degumming dewaxing and decolorization of edible crude oils Narrates application of membrane processing techniques in waste water treatment for efficient use Readers such as professors scientist research scholars students and industrial personnel will come to know about the current trends in use of membrane processing techniques for its application in several food processing industries This book can be a ready reference for the food industrial industry for manufacturing of deacidified clarified fruit juices and wine by using integrated membrane technique approach In a nutshell this book will benefit food scientist academicians students and food industrial persons by providing in depth knowledge about membrane processing of foods for quality retention and also for efficient consumer acceptability Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on

processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science *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 Computational Fluid Dynamics in Food Processing Da-Wen Sun, 2007-05-24 The implementation of early stage simulation tools specifically computational fluid dynamics CFD is an international and interdisciplinary trend that allows engineers to computer test concepts all the way through the development of a process or system With the enhancement of computing power and efficiency and the availability of affordable CF **Membrane Technology for Water and Wastewater Treatment, Energy and Environment** A.F. Ismail, Takeshi Matsuura, 2016-03-16 Realizing that water energy and food are the three pillars to sustain the growth of human population in the future this book deals with all the above aspects with particular

emphasis on water and energy In particular the book addresses applications of membrane science and technology for water and wastewater treatment energy and environment Th Introduction to Membrane Science and Technology Heinrich Strathmann,2011-10-17 Written by a dedicated lecturer and leading membrane scientist who has worked both in academia and industry this advanced textbook provides an impressive overview of all aspects of membranes and their applications Together with numerous industrial case studies practical examples and questions the book provides an excellent and comprehensive introduction to the topic Advanced students as well as process and chemical engineers working in industry will profit from this resource A significant feature of the book is the treatment of more recently developed membranes and their applications in energy conversion biomedical components controlled release devices and environmental engineering with an indication of the present and future commercial impact The solutions to the questions in the book can be found under <http://www.wiley-vch.de/publish/en/books/ISBN3-537-32451-8> From the Contents Introduction Fundamentals Membrane Preparation and Characterization Principles of Membrane Separation Processes Membrane Modules and Concentration Polarization Membrane Process Design and Operation **Energy Research Abstracts** ,1990 **Separation of Functional Molecules in Food by Membrane Technology** Charis M. Galanakis,2018-11-14 Separation of Functional Molecules in Food by Membrane Technology deals with an issue that is becoming a new research trend in the field of food and bioproducts processing The book fills in the gap of transfer knowledge between academia and industry by highlighting membrane techniques and applications for the separation of food components in bioresources discussing separation mechanisms balancing advantages and disadvantages and providing relevant applications Edited by Charis Galanakis the book is divided in 13 chapters written by experts from the meat science food technology and engineering industries Covers the 13 most relevant topics of functional macro and micro molecules separation using membrane technology in the food industry Brings the most recent advances in the field of membrane processing Presents the sustainability principles of the food industry and the modern bioeconomy frame of our times **Science and Technology of Separation Membranes** Tadashi Uragami,2017-02-10 Offers a comprehensive overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells *Chemistry and Industry* ,1990 **Separation Process Engineering** Phillip C. Wankat,2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date

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Indian Food Industry ,1990 **Management's Food Processing/marketing** ,1966 *Impact of Three Industrial Technologies Developed by DOE* R. Neal Elliott,1997 **UIR/research Newsletter** ,1980 **Review of Research Work at the Faculty of Agriculture** ,1996 Chemical Engineering Progress ,1999 *Proceedings of the 1998 Sugar Processing Research Conference* Mary An Godshall,Sugar Processing Research Conference (9, 1998, Savannah, Ga.),1998 Fractionation of Skim Milk by Microfiltration Veronica Mascarúa-Galindo,1994

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