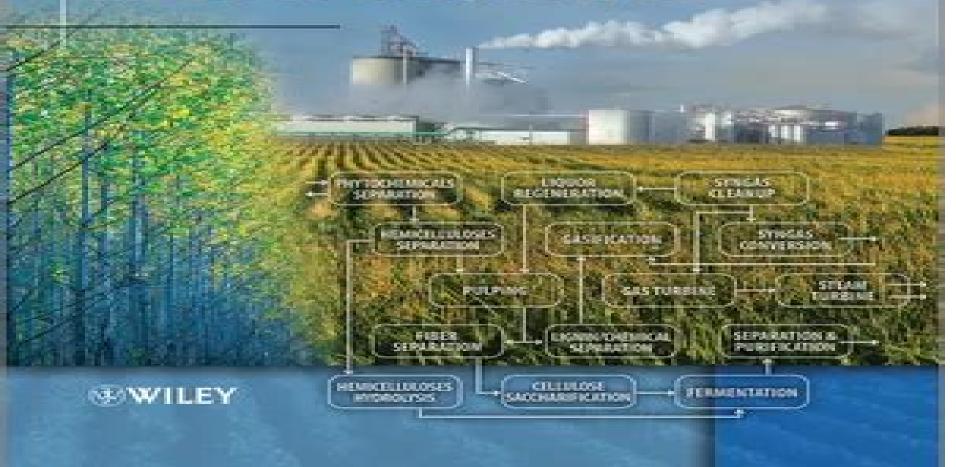
# Separation and Purification Technologies in Biorefineries



# **Separation And Purification Technologies In Biorefineries**

Alberto Figoli, Alfredo Cassano, Angelo Basile

#### **Separation And Purification Technologies In Biorefineries:**

Separation and Purification Technologies in Biorefineries Shri Ramaswamy, Hua-Jiang Huang, Bandaru V. Ramarao, 2013-02-04 Separation and purification processes play a critical role in biorefineries and their optimal selection design and operation to maximise product yields and improve overall process efficiency Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive Consequently a better understanding of separation and purification processes current and possible alternative and novel advanced methods is essential for achieving the overall techno economic feasibility and commercial success of sustainable biorefineries This book presents a comprehensive overview focused specifically on the present state future challenges and opportunities for separation and purification methods and technologies in biorefineries Topics covered include Equilibrium Separations Distillation liquid liquid extraction and supercritical fluid extraction Affinity Based Separations Adsorption ion exchange and simulated moving bed technologies Membrane Based Separations Microfiltration ultrafiltration and diafiltration nanofiltration membrane pervaporation and membrane distillation Solid liquid Separations Conventional filtration and solid liquid extraction Hybrid Integrated Reaction Separation Systems Membrane bioreactors extractive fermentation reactive distillation and reactive absorption For each of these processes the fundamental principles and design aspects are presented followed by a detailed discussion and specific examples of applications in biorefineries Each chapter also considers the market needs industrial challenges future opportunities and economic importance of the separation and purification methods The book concludes with a series of detailed case studies including cellulosic bioethanol production extraction of algae oil from microalgae and production of biopolymers Separation and Purification Technologies in Biorefineries is an essential resource for scientists and engineers as well as researchers and academics working in the broader conventional and emerging bio based products industry including biomaterials biochemicals biofuels and bioenergy

Emerging Technologies for Biorefineries, Biofuels, and Value-Added Commodities Zhi-Hua Liu, Art Ragauskas, 2021-04-30 This book provides in depth coverage on the latest concepts systems and technologies that are being utilized in biorefineries for the production of biofuels and value added commodities Written by internationally recognized experts the book provides a comprehensive overview of pretreatment technology for biorefineries and biofuels enzymatic hydrolysis and fermentation technology for biofuel production and lignin valorization for developing new products from waste lignin The book will be a valuable resource for researchers and professionals working in process engineering product engineering material science and systems and synthetic biology in the fields of biorefining biofuel biomaterials environmental waste utilization and biotechnology 

Lignocellulose for Future Bioeconomy Hidayah Ariffin, S. M. Sapuan, Mohd Ali Hassan, 2019-04-20 Lignocellulose for Future Bioeconomy discusses the conversion and utilization of lignocellulosic biomass

This book focuses on the utilization of lignocelluloses for various products including biopolymers bionanomaterials and bioproducts Recent findings in scientific investigation engineering product development economic and lifecycle analysis are discussed as are current synthesis technologies and potential applications. The book progresses from a discussion of the potential sources of biomass to the refinement and processing of materials A sampling of various sustainability issues faced by industries in their production methods and a look at real world examples of the use of lignocellulose based materials in the bioeconomy round out the discussion Presents information on lignocellulosic biomass management and its utilization for the production of bioproducts biopolymers and bionanomaterials Highlights the applications of advanced materials developed from lignocellulosic biomass and their contribution towards future bioeconomy Discusses the lifecycle of lignocellulosic Biodiesel Meisam Tabatabaei, Mortaza Aghbashlo, 2018-11-02 This book presents in depth information on the state of the art of global biodiesel production and investigates its impact on climate change Subsequently it comprehensively discusses biodiesel production in terms of production systems reactor technologies as well as biodiesel purification and upgrading technologies Moreover the book reviews essential parameters in biodiesel production systems as well as major principles of operation process control and trouble shooting in these systems Conventional and emerging applications of biodiesel by products with a view to further economize biodiesel production are also scrutinized Separate chapters are dedicated to economic risk analysis and critical comparison of biodiesel production systems as well as techno economical aspects of biodiesel plants The book also thoroughly investigates the important aspects of biodiesel production and combustion by taking advantage of advanced sustainability analysis tools including life cycle assessment LCA and exergy techniques In closing the application of Omics technologies in biodiesel production is presented and discussed This book is relevant to anyone with an interest in renewable more sustainable fuel and energy solutions *Fast Pyrolysis of Biomass* Robert C Brown, Kaige Wang, 2017-06-30 Fast pyrolysis and related catalytic pyrolysis are of increasing interest as pathways to advanced biofuels that closely mimic traditional petroleum products Research has moved from empirical investigations to more fundamental studies of pyrolysis mechanisms Theories on the chemical and physical pathways from plant polymers to pyrolysis products have proliferated as a result This book brings together the latest developments in pyrolysis science and technology It examines reviews and challenges the unresolved and sometimes controversial questions about pyrolysis helping advance the understanding of this important technology and stimulating discussion on the various competing theories of thermal deconstruction of plant polymers Beginning with an introduction to the biomass to biofuels process via fast pyrolysis and catalytic pyrolysis chapters address prominent questions such as whether free radicals or concerted reactions dominate deconstruction reactions Finally the book concludes with an economic analysis of fast pyrolysis versus catalytic pyrolysis This book will be of interest to advanced students and researchers interested in the science behind renewable fuel technology and particularly the thermochemical processing of biomass Carbohydrates in Chemistry and Biology Vinod Kumar

Tiwari, Bubun Banerjee, 2025-04-21 Carbohydrates in Chemistry and Biology provides detailed information about the green synthesis biological importance and catalytic applications of carbohydrate derivatives It covers various topics including carbohydrate decorated compounds bioconjugation carbohydrate functionalized heterocycles carbohydrate spiro heterocycles heterocycles from carbohydrate precursors and natural sources of bioactive carbohydrates Technologies for Biorefining Alberto Figoli, Alfredo Cassano, Angelo Basile, 2016-02-19 Membrane Technologies for Biorefining highlights the best practices needed for the efficient and environmentally compatible separation techniques that are fundamental to the conversion of biomass to fuels and chemicals for use as alternatives to petroleum refining Membrane technologies are increasingly of interest in biorefineries due to their modest energy consumption low chemical requirements and excellent separation efficiency. The book provides researchers in academia and industry with an authoritative overview of the different types of membranes and highlights the ways in which they can be applied in biorefineries for the production of chemicals and biofuels Topics have been selected to highlight both the variety of raw materials treated in biorefineries and the range of biofuel and chemical end products Presents the first book to focus specifically on membrane technologies in biorefineries Provides a comprehensive overview of the different types of membranes and highlight ways in which they can be applied in biorefineries for the production of chemicals and biofuels Topics selected highlight both the variety of raw materials treated using membranes in biorefineries and the range of biofuel and chemical end products Bioconversion Alexandru Mihai Grumezescu, Alina Maria Holban, 2017-06-29 Food Bioconversion Volume Two in the Handbook of Food Bioengineering series is an interdisciplinary resource of fundamental information on waste recovery and biomaterials under certain environmental conditions The book provides information on how living organisms can be used to transform waste into compounds that can be used in food and how specialized living cells in plants animals and water can convert the most polluting agents into useful non toxic products in a sustainable way This great reference on the bioconversion of industrial waste is ideal in a time when food resources are limited and entire communities starve Presents extraction techniques of biological properties to enhance food s functionality i e functional foods or nutraceuticals Provides detailed information on waste material recovery issues Compares different techniques to help advance research and develop new applications Includes research solutions of different biological treatments to produce foods with antibiotic properties i e probiotics Explores how bioconversion technologies are essential for research outcomes to increase high quality food Algal Biorefineries and the Circular Bioeconomy OBULISAMY PARTHIBA KARTHIKEYAN, Sanjeet production Mehariya, Shashi Kant Bhatia, 2022-04-19 Algae are mysterious and fascinating organisms that hold great potential for discovery and biotechnology Dr Thierry Tonon Department of Biology University of York Science is a beautiful gift to humanity we should not distort it A P J Abdul Kalam In this book we emphasise the importance of algal biotechnology as a sustainable platform to replace the conventional fossil based economy With this focus Volume 2 summarizes up to date

literature knowledge and discusses the advances in algal cultivation genetic improvement wastewater treatment resource recovery commercial operation and technoeconomic analysis of algal biotechnology FEATURES Discusses in detail recent developments in algae cultivation and biomass harvesting Provides an overview of genetic engineering and algal bacteria consortia to improve productivity Presents applications of algae in the area of wastewater treatment and resource recovery Provides case studies and technoeconomic analysis to understand the algal biorefinery Shashi Kant Bhatia PhD is an Associate Professor in the Department of Biological Engineering Konkuk University Seoul South Korea Sanjeet Mehariya PhD is a Postdoctoral Researcher in the Department of Chemistry Ume University Ume Sweden Obulisamy Parthiba Karthikeyan PhD is a Research Scientist and Lecturer Adjunct in the Department of Civil and Environmental Engineering South Dakota School of Mines and Technology Rapid City South Dakota USA Banana Peels Valorization Mejdi Jeguirim, Besma Khiari, 2024-05-21 Banana Peels Valorization Sustainable and Eco friendly Applications provides a global overview of world production physicochemical and microbiological characteristics of Banana Peels and the various pathways for their valorization considering the advantages disadvantages and factors impacting on each way of valorization Each chapter deals with sustainable applications based on the sector category Such structure helps the audience from a specific field to easily identify the specific application Successful case study of a banana processing by products valorization is also presented Written by a team of interdisciplinary experts this is the ultimate valuable resource for agricultural or food engineers who work in the banana groves and in the banana processing industry and also for Researchers working in correlated areas of food environmental and energy fields Provides a global overview of world production physicochemical and microbiological characteristics of banana peels Explores banana tree and fruit wastes including their quantification and classification Discusses each sustainable application of banana peels in a specific chapter based on the sector category

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