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Hemicelluloses: Science and Technology



EDITED BY
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Hemicelluloses Science And Technology

Raimo Alén



Hemicelluloses Science And Technology:

Hemicelluloses Paul Gatenholm, Maija Tenkanen, 2004 This covers the isolation analysis chemistry technology and applications on hemicelluloses Midwest **Hemicelluloses**, 2004 **Manufacturing Science and Technology, AEMT2011** Peng Cheng Wang, Li Qun Ai, Yun Gang Li, Xiao Ming Sang, Jing Long Bu, 2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Advanced Engineering Materials and Technology AEMT 2011 July 29 31 2011 Sanya China *Hemicelluloses and Lignin in Biorefineries* Jean-Luc Wertz, Magali Deleu, Séverine Coppée, Aurore Richel, 2017-10-16 Hemicelluloses and Lignin in Biorefineries provides an understanding of lignocellulosic biomass which is mainly composed of cellulose hemicelluloses and lignin It promotes the valorization of these molecules in the context of the bioeconomy and presents hemicelluloses and lignin which are generated in lignocellulosic biorefineries as the molecules of the future The viability of these molecules lies in their renewability and potential This book covers all aspects of hemicelluloses and lignin including structure biosynthesis extraction biodegradation and conversion The book also looks ahead to the socioeconomic and environmental value of biobased industry and emphasizes an understanding of the potential of lignocellulosic biomass **Renewable Resources for Functional Polymers and Biomaterials** Peter A Williams, 2015-11-09 This book details polysaccharides and other important biomacromolecules covering their source production structures properties and current and potential application in the fields of biotechnology and medicine It includes a systematic discussion on the general strategies of isolation separation and characterization of polysaccharides and proteins Subsequent chapters are devoted to polysaccharides obtained from various sources including botanical algal animal and microbial In the area of botanical polysaccharides separate chapters are devoted to the sources structure properties and medical applications of cellulose and its derivatives starch and its derivatives pectins and exudate gums notably gum arabic Another chapter discusses the potential of hemicelluloses xylans and xylan derivatives as a new source of functional biopolymers for biomedical and industrial applications The algal polysaccharide alginate has significant application in food pharmaceuticals and the medical field all of which are reviewed in a separate chapter Polysaccharides of animal origin are included with separate chapters on the sources production biocompatibility biodegradability and biomedical applications of chitin chitosan and hyaluronan With the increasing knowledge and applications of genetic engineering there is also an introduction in the book to nucleic acid polymers the genome research and genetic engineering Proteins and protein conjugates are covered with one chapter providing a general review of structural glycoproteins fibronectin and laminin together with their role in the promotion of cell adhesion in vascular grafts implants and tissue engineering Another chapter discusses general aspects of a number of industrial proteins including casein caseinates whey protein gluten and soy proteins with emphasis on their medical applications and with reference to the potential of bacterial proteins Another natural polymer resource microbial polyesters although small compared with polysaccharides and proteins is also gaining increasing interest

in biomedical technology and other industrial sectors One chapter therefore is devoted to microbial polyesters with comprehensive coverage of their biosynthesis properties enzymic degradation and applications By dealing with biopolymers at the molecular level the book is aimed at the biomedical and wider materials science communities and provides an advanced overview of biopolymers at the graduate and postgraduate level In addition it will appeal to both academic and industrial life scientists who are involved in research and development activities in the medical and biotechnology field

Hemicelluloses Klaus Fischer, Thomas Heinze, 2006-05-12 Hemicelluloses comprising the non cellulose cell wall polysaccharides of vegetative and storage tissues of annual and perennial plants represent an immense renewable resource of biopolymers They occur in a large variety of structural types and are accessible to chemical functionalization reactions In light of this the volume gives information of the state of the art focusing on new plant sources isolation methods and characterization of structural features physicochemical and various functional properties Attention has been paid to derivatives prepared from these polysaccharides and to application possibilities of hemicelluloses or hemicellulosic materials

Chemistry for Biomass Utilization Raimo Alén, 2023-12-04 Much interest has been directed to the versatile possibilities of using lignocellulosic biomass resources i e renewable raw materials for the full scale production of various chemicals and other bioproducts together with solid liquid and gaseous fuels Introduces modern aspects and various technologies of lignocellulosic biomass conversion for producing chemicals biofuels and other products in a reader friendly way Starting with fundamentals of biorefinery the author further describes chemical biochemical and thermal conversion approaches In addition the properties and biorefining principles of non wood biomass feedstock

Hemicellulose Biorefinery: A Sustainable Solution for Value Addition to Bio-Based Products and Bioenergy Michel Brienzo, 2022-01-03 This edited book provides knowledge about hemicelluloses biorefinery approaching production life cycle circular economy and valorization by obtaining value added bioproducts and bioenergy A special focus is dedicated to chemical and biochemical compounds produced from the hemicelluloses derivatives platform Hemicelluloses are polysaccharides located into plant cell wall with diverse chemical structures and properties It is the second most spread organic polymer on nature and found in vast lignocellulosic materials from agro and industrial wastes therefore hemicelluloses are considered as abundant and renewable raw material feedstock Biorefinery concept contributes to hemicelluloses production associated with biomass industrial processes Hemicelluloses are alternative sources of sugars for renewable fuels and as platform for chemicals production This book reviews chemical processes for sugar production and degradation obtaining of intermediate and final products and challenges for pentose fermentation Aspects of hemicelluloses chain chemical and enzymatic modifications are presented with focus on physicochemical properties improvement for bioplastic and biomaterial approaches Hemicelluloses are presented as sources for advanced materials in biomedical and pharmaceutical uses and as hydrogel for chemical and medicine deliveries An interdisciplinary approach is needed to cover all the processes involving hemicelluloses its conversion

into final and intermediate value added compounds and bioenergy production Covering this context this book is of interest to teachers students researchers and scientists dedicated to biomass valorization This book is a knowledge source of basic aspects to advanced processing and application for graduate students particularly Besides the book serves as additional reading material for undergraduate students from different courses with a deep interest in biomass and waste conversion valorization and chemical products from hemicelluloses

Isolation, Modification, and Characterization of the Constituents (Cellulose, Hemicellulose, Lignin, et al.) in Biomass and Their Bio-based Applications Caoxing Huang, Chunlin Xu, Xianzhi Meng, Lei Wang, Xin Zhou, 2022-05-31

Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels

RunCang Sun, 2010-01-18 Materials from renewable resources are receiving increased attention as leading industries and manufacturers attempt to replace declining petrochemical based feedstocks with products derived from natural biomass such as cereal straws Cereal straws are expected to play an important role in the shift toward a sustainable economy and a basic knowledge of the composition and structure of cereal straw is the key to using it wisely Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels Chemistry Extractives Lignins Hemicelluloses and Cellulose provides an introduction to straw chemistry Topics discussed include the structure ultrastructure and chemical composition of straw the structure and isolation of extractives from the straw the three main components of straw cellulose hemicelluloses and lignins and chemical modifications of straw for industrial applications This book will be helpful to scientists interested in the areas of natural resource management environmental chemistry plant chemistry material science polysaccharide chemistry and lignin chemistry It will also be of interest to academic and industrial scientists researchers interested in novel applications of agricultural residues for industrial and or recycling technologies Provides the basics of straw composition and the structure of its cell walls Details the procedures required to fractionate straw components to produce chemical derivatives from straw cellulose hemicelluloses and lignins Elucidates new techniques for the production of biodegradable materials for the energy sector chemical industry and pulp and paper business

Nanotechnology for Bioenergy and Biofuel Production Mahendra Rai, Silvio Silvério da Silva, 2016-12-19 A unique feature of this book is its focus on nanotechnological solutions for the production of bioenergy and biofuels Coverage includes topics such as nanobiotechnology microalgae biofuel cells biomass pretreatment and biomass conversion An international team of experts also addresses the need to precisely characterize nanoparticles and the role of catalysts The range of topics addressed together with a chapter on risk management make this book a highly useful resource for a broad readership including physicists chemists microbiologists biotechnologists food technologists agricultural engineers and nanotechnologists

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Polyethylene-Based Biocomposites and Bionanocomposites Visakh P. M., Sigrid Lüftl, 2016-10-21 Biodegradable polymers have experienced a growing interest in recent years for applications in packaging agriculture automotive medicine and other areas One of the drivers for this development is the great quantity of synthetic plastic discarded improperly in the environment Therefore R D in industry and in academic research centers search for materials that are reprocessible and biodegradable This unique book comprises 12 chapters written by subject specialists and is a state of the art look at all types of polyethylene based biocomposites and bionanocomposites It includes deep discussion on the preparation characterisation and applications of composites and nanocomposites of polyethylene based biomaterials such as cellulose chitin starch soy protein PLA casein hemicellulose PHA and bacterial cellulose *Advances in Natural Polymers* Sabu Thomas, P. M. Visakh, Aji. P Mathew, 2012-12-14 The book summarizes in a comprehensive manner many of the recent technical research accomplishments in the area of natural polymers It discusses the various attempts reporting on solving this problem from the point of view of the chemistry and the structure of natural polymers highlighting the drawbacks and advantages of each method and proposal Based on considerations of structure property relations it is possible to obtain fibers with improved strength by making use of their nanostructures and or mesophase properties of natural polymers The book is a unique book with contributions from the experts of the biomaterial area research it covers all topics related to natural biomaterials such as natural rubber cellulose chitin starch hemicellulose lignin alginates soy protein casein and their bionanocomposites and applications This book is a useful reference for scientists academicians research scholars and biotechnologists

Sustainable Polymer Composites and Nanocomposites Inamuddin, Sabu Thomas, Raghvendra Kumar Mishra, Abdullah M. Asiri, 2019-02-01 This book presents emerging economical and environmentally friendly polymer composites that are free of the side effects observed in traditional composites It focuses on eco friendly composite materials using granulated cork a by product of the cork industry cellulose pulp from the recycling of paper residues hemp fibers and a range of other environmentally friendly materials procured from various sources The book presents the manufacturing methods properties and characterization techniques of these eco friendly composites The respective chapters address classical and recent aspects of eco friendly polymer composites and their chemistry along with practical applications in the biomedical pharmaceutical automotive and other sectors Topics addressed include the fundamentals processing properties practicality drawbacks and advantages of eco friendly polymer composites Featuring contributions by experts in the field

with a variety of backgrounds and specialties the book will appeal to researchers and students in the fields of materials science and environmental science Moreover it fills the gap between research work in the laboratory and practical applications in related industries The Hemicelluloses Workshop Kenneth M. Entwistle, J. C. F. Walker, 2005 **Biomass Sugars for Non-Fuel Applications** Dmitry Murzin, Olga Simakova, 2015-11-20 Biomass derived sugars provide a rich renewable feedstock for a diverse range of chemicals making them a promising and feasible source for the sustainable manufacture of a variety of valuable products Exploring green sugar based technologies beyond their applications in fuels this book provides an overview of sugar based technologies describing their challenges and opportunities It covers transformations of sugars into green chemicals in pharmaceuticals biodegradable polymers and surfactants A special chapter is dedicated to the conversion of biomass into sugars which is a crucial step in the sustainable utilization of sugars The book is a valuable resource for chemists and chemical engineers working to develop greener synthetic routes to chemicals and pharmaceuticals **Biotechnological Applications of Biomass** Thalita Peixoto Basso, Thiago Olitta Basso, Luiz Carlos Basso, 2021-08-18 Biotechnological Applications of Biomass provides a comprehensive overview of the current state of the art of biomass utilization in agriculture and pharmaceuticals The information contained herein is useful to researchers and other readers interested in biomass utilization and production of bioproducts **Polysaccharide Building Blocks** Youssef Habibi, Lucian A. Lucia, 2012-03-14 This book is an archival reference for the evolving field of biomaterials and their applications in society focusing on their composition properties characterization chemistry and applications in bioenergy chemicals and novel materials and biomaterials It has broad appeal due to the recent heightened awareness around bioenergy and biomass as potential replacements for petroleum feedstocks The book is divided into three parts cellulose based biomaterials chitin and chitosan biomaterials and hemicelluloses and other polysaccharides Each chapter addresses a separate biomaterial discussing its chemical physical and biological attributes and hones in on each compound's intrinsic tunability for numerous chemical transformations In the current quest for a green economy and resources this book will help inspire scientists towards novel sources for chemicals materials and energy in the years to come *Integrated Forest Biorefineries* Lew Christopher, 2013 This book documents the recent accomplishments of integrated forest biorefineries and their future in the pulp paper and fiber processing industries

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