

Hemicelluloses: Science and Technology



EDITED BY
Paul Gatenholm and Maija Tenkanen

Hemicelluloses Science And Technology Acs Symposium Series

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Hemicelluloses Paul Gatenholm, Maija Tenkanen, 2004 This covers the isolation analysis chemistry technology and applications on hemicelluloses Midwest **Cellulose Science and Technology** Thomas Rosenau, Antje Potthast, Johannes Hell, 2018-11-30 This book addresses both classic concepts and state of the art technologies surrounding cellulose science and technology Integrating nanoscience and applications in materials energy biotechnology and more the book appeals broadly to students and researchers in chemistry materials energy and environmental science Includes contributions from leading cellulose scientists worldwide with five Anselm Payen Cellulose Award winners and two Hayashi Jisuke Cellulose Award winners Deals with a highly applicable and timely topic considering the current activities in the fields of bioeconomies biorefineries and biomass utilization Maximizes readership by combining fundamental science and application development

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 **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

Polysaccharides I Thomas Heinze,2005-11-02 **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 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

Global Perspectives on Sustainable Forest Management Dr. Clement A. Okia, 2012-04-25 This book is dedicated to global perspectives on sustainable forest management It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources The book is divided into two sections the first section with thirteen chapters deals with the forest management aspects while the second section with five chapters is dedicated to forest utilization This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management It will be an interesting and helpful resource to managers specialists and students in the field of forestry and natural resources management

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

Pulp and Paper Industry Pratima Bajpai, 2015-04-09 Pulp and Paper Industry Chemicals features in depth and thorough coverage of Chemical additives in the Pulp and Paper Industry It discusses use of Enzymes Green Chemicals that can improve operations in pulp and paper describes Chemicals demanded by the end user and many key and niche players such as Akzo Nobel NV Eka Chemicals AB Ashland Inc BASF Buckman Laboratories International Inc Clariant Cytec Industries Inc Enzymatic Deinking Technologies LLC ERCO Worldwide FMC Corporation Georgia Pacific Corporation Georgia Pacific Chemicals LLC Imerys SA Momentive Specialty Chemicals Inc Novozymes Kemira Chemicals Nalco Holding Company Omya AG Solvay AG and Solvay Chemicals Inc Paper and pulp processing and additive chemicals are an integral part of the total papermaking process from pulp slurry through sheet formation to effluent disposal Environmental concerns increased use of recycled waste paper as a replacement for virgin pulp changes in bleaching and pulping processes increased efficiency requirements for the papermaking process limits on effluent discharge as well as

international competitiveness have greatly impacted the paper and pulp chemical additive market This book features in depth and thorough coverage of Chemical additives in Pulp and Paper Industry Detailed and up to date coverage of Chemicals in Pulp and Paper Industry Authoritative thorough and comprehensive content on a wide variety of Enzymes Green Chemicals Comprehensive list of Paper and Pulp Related Chemicals Comprehensive list of all Pulp and paper Suppliers Comprehensive Indexing **Springer Handbook of Wood Science and Technology** Peter Niemz, Alfred Teischinger, Dick

Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology **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 [Introduction to Renewable Biomaterials](#) Ali S. Ayoub, Lucian A. Lucia, 2025-02-25 Covers the entire evolutionary spectrum of biomass from its genetic modification and harvesting to conversion technologies life cycle analysis and its value to the current global economy This original textbook introduces readers to biomass a renewable resource derived from forest agriculture and organic based materials which has attracted significant attention as a sustainable alternative to petrochemicals for large scale production of fuels materials and chemicals The current renaissance

in the manipulation and uses of biomass has been so abrupt and focused that very few educational textbooks actually cover these topics to any great extent That s why this interdisciplinary text is a welcome resource for those seeking a better understanding of this new discipline It combines the underpinning science of biomass with technology applications and sustainability considerations to provide a broad focus to its readers Introduction to Renewable Biomaterials First Principles and Concepts consists of eight chapters on the following topics fundamental biochemical principles and methodologies controlling plant growth and silviculture fundamental science and engineering considerations critical considerations and strategies for harvesting first principles of pretreatment conversion technologies characterization methods and techniques and life cycle analysis Each chapter includes a glossary of terms two to three problem sets and boxes to highlight novel discoveries and instruments Chapters also offer questions for further consideration and suggestions for further reading Developed from a successful USDA funded course run by a partnership of three US universities BioSUCCEED BioProducts Sustainability a University Cooperative Center for Excellence in Education Covers the entire evolutionary spectrum of biomass from genetic modification to life cycle analysis Presents the key chemistry biology technology and sustainability aspects of biomaterials Edited by a highly regarded academic team with extensive research and teaching experience in the field Introduction to Renewable Biomaterials First Principles and Concepts is an ideal text for advanced academics and industry professionals involved with biomass and renewable resources bioenergy biorefining biotechnology materials science sustainable chemistry chemical engineering crop science and technology agriculture *Lignocellulosic Biorefineries* Jean-Luc Wertz,Olivier Bédué,2013-06-27 Written with a diverse audience in mind this book describes the current status development and future prospects for the critical technology of second generation biorefineries specifically with a focus on lignocellulosic materials as feedstock It provides an overview of the issues behind this technological transition and it provides in depth the science and technology related to cellulose for production of bioethanol and other biofuels The book also highlights the main emerging routes that will serve as the source of important bio generated products in the future

Technology and Applications of Polymers Derived from Biomass Syed Ali Ashter,2017-11-22 Technology and Applications of Polymers Derived from Biomass explores the range of different possible routes from biomass to polymeric materials including the value and limitations of using biomass in material applications and a comparison of petrochemical derived polymers and bio based polymers The book discusses biomass sources types chemistry and handling concerns It covers the manufacture of industrial chemicals from biomass and the derivation of monomers and polymers from biomass It also details the processing and applications of biomass derived polymers to enable materials scientists and engineers realize the potential of biomass as a sustainable source of polymers including plastics and elastomers The book is a one stop shop reference giving students a basic understanding of the technology and how the material can be applied to industrial processes they will face in the workforce and giving materials engineers and product designers the information they need to

make more informed material selection decisions Provides fundamental understanding of an increasingly important approach to sourcing polymeric materials Includes actionable relevant information to enable materials engineers and product designers consider biomass derived polymers in the products they are developing Discusses the environmental impact of biomass conversion to help readers improve the sustainability of their operations Compares petrochemical derived polymers with bio based polymers

Primary Wood Processing John C.F. Walker,2006-09-13 Samuel Johnson of Boswell fame said about writing whatever is written without effort is in general read without pleasure and the unexamined word is not worth reading However even the most thoughtfully written text is unlikely to be described as a good read This book is not an exhaustive review Rather it is an uneven selection of examples whose interplay across disciplines hopefully illuminates what drives the practice of forest production wood processing and consumer preferences The choice of material is arbitrary reflecting personal biases It is a summary of material presented to students at the NZ School of Forestry at the University of Canterbury This book takes liberties with other peoples ideas weaving them into fresh themes that are at best a work in progress The philosopher Francis Bacon argued that science is a debate in progress not a body of knowledge and also truth emerges more readily from error than confusion We have taken the position that it is preferable to venture a reasoned opinion and be proved wrong than to waffle so don t swallow every sentence doubt everything The reader s task is to unravel the conceits of generalizing and the risks of particularizing

Nanotechnology for Bioenergy and Biofuel Production Mahendra Rai,Silvio Silv rio 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

Characterization of the Cellulosic Cell Wall Douglas D. Stokke,Leslie H. Groom,2008-02-28 This volume brings together a broad array of scientific expertise to focus on the characterization and utilization of cellulosic materials Researchers from Austria Germany Sweden Japan New Zealand Australia and the U S explore many facets of the plant cell wall from its fundamental structure and its manipulation via molecular biology to its application in composite materials Exciting applications of near infrared spectroscopy x ray diffraction confocal microscopy and molecular coupling as a viscoelastic probe provide new insights into the ultrastructure and properties of cellulosic materials

Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology James A. Kent,2010-05-27 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of

individuals from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors 30 of the book's 38 chapters but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in new chapters on Green Engineering and Chemistry, Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review and modification. Other new chapters include Nanotechnology, Environmental Considerations in Facilities Planning, Biomass Utilization, Industrial Microbial Fermentation, Enzymes and Biocatalysis, the Nuclear Industry and History of the Chemical Industry.

Cereal Grain-based Functional Foods Trust Beta, Mary Ellen Camire, 2018-09-06. Globally, cereal grains are a staple part of the diet, providing primarily carbohydrates and other phytochemical components. Detailed coverage of the composition and functionality of the bulk carbohydrate components, specifically starch, beta-glucans and arabinoxylans, and the trace phytochemical components, i.e. phenolic compounds such as phenolic acids, anthocyanins, deoxyanthocyanins and proanthocyanidins in cereal grains and grain products, is provided. Considerable attention is paid to the interactions between carbohydrate and non-carbohydrate components in grains, including starch-protein and starch-lipid interactions and their effects on starch digestibility. The phenolic constituents bound to grain dietary fiber also receive detailed consideration, and the final chapter presents a review that discusses whole-grain gut microbiota interactions, identifying new areas of research that may contribute to a better understanding of the underlying mechanisms linked to human health. This book provides researchers, clinicians and students with a comprehensive compendium on aspects of whole-grain components and brings the literature up to date.

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