

Chemical Modification, Properties, and Usage of Lignin



**Edited by
Thomas Q. Hu**

Chemical Modification Properties And Usage Of Lignin

**Zhen Fang, Richard L. Smith Jr, Lujiang
Xu**



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Chemical Modification, Properties, and Usage of Lignin Thomas Q. Hu, 2012-12-06 One of the most significant challenges facing mankind in the twenty first century is the development of a sustainable global economy Within the scientific community this calls for the development of processes and technologies that will allow the sustainable production of materials from renewable natural resources Plant material in particular lignin is one such resource During the annual production of about 100 million metric tons of chemical wood pulps worldwide approximately 45 and 2 million metric tons year of kraft lignin and lignosulfonates respectively are also generated Although lignosulfonates have found many applications outside the pulp and paper industry the majority of kraft lignin is being used internally as a low grade fuel for the kraft pulping operation A surplus of kraft lignin will become available as kraft mills increase their pulp production without expanding the capacity of their recovery boilers that utilize lignin as a fuel There is a tremendous opportunity and an enormous economic incentive to find better uses of kraft lignin lignosulfonates and other industriallignins The pulp and paper industry not only produces an enormous amount of lignins as by products of chemical wood pulps but it also utilizes about 10 million metric tons of lignin per year as a component of mechanical wood pulps and papers Mechanical wood pulps produced in a yield of 90 98% with the retention of lignin are mainly used to make low quality non permanent papers such as newsprint and telephone directories because of the light induced photooxidation of lignin and the yellowing of the papers [Chemical Modification, Properties, and Usage of Lignin](#) Thomas Q. Hu, 2002-03-31 One of the most significant challenges facing mankind in the twenty first century is the development of a sustainable global economy Within the scientific community this calls for the development of processes and technologies that will allow the sustainable production of materials from renewable natural resources Plant material in particular lignin is one such resource During the annual production of about 100 million metric tons of chemical wood pulps worldwide approximately 45 and 2 million metric tons year of kraft lignin and lignosulfonates respectively are also generated Although lignosulfonates have found many applications outside the pulp and paper industry the majority of kraft lignin is being used internally as a low grade fuel for the kraft pulping operation A surplus of kraft lignin will become available as kraft mills increase their pulp production without expanding the capacity of their recovery boilers that utilize lignin as a fuel There is a tremendous opportunity and an enormous economic incentive to find better uses of kraft lignin lignosulfonates and other industriallignins The pulp and paper industry not only produces an enormous amount of lignins as by products of chemical wood pulps but it also utilizes about 10 million metric tons of lignin per year as a component of mechanical wood pulps and papers Mechanical wood pulps produced in a yield of 90 98% with the retention of lignin are mainly used to make low quality non permanent papers such as newsprint and telephone directories because of the light induced photooxidation of lignin and the yellowing of the papers **Production of Biofuels and Chemicals from Lignin** Zhen Fang, Richard L. Smith, Jr., 2016-09-28 This book provides state of the art reviews current

research on and the prospects of lignin production biological thermal and chemical conversion methods and lignin technoeconomics Fundamental topics related to lignin chemistry properties analysis characterization and depolymerization mechanisms as well as enzymatic fungal and bacterial degradation methods are covered The book also examines practical topics related to technologies for lignin and ultra pure lignin recovery activated carbon carbon fiber production and materials and addresses the biological conversion of lignin with fungi bacteria or enzymes to produce chemicals along with chemical catalytic thermochemical and solvolysis conversion methods Lastly it presents a case study on practical polyurethane foam production using lignin Lignin has a bright future and will be an essential feedstock for producing renewable chemicals biofuels and value added products Offering comprehensive information on this promising material the book represents a valuable resource for students researchers academicians and industrialists in the field of biochemistry and energy

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 biomass

The Nanoscience and Technology of Renewable Biomaterials Lucian A. Lucia, Orlando Rojas, 2009-07-23 The unique nanoscale properties of renewable biomaterials present valuable opportunities in the field of nanoscience and technology Lignocellulosic biomass is an important industrial resource which can be used for the production of highly efficient and environmentally sustainable nanomaterials The Nanoscience and Technology of Renewable Biomaterials presents the latest advances in biomass nanotechnology including leading research from academia and industry as well as a future vision for the nanotechnology of forest products Topics covered include A fundamental review of the relationship between nanotechnology and lignocellulosic biomass Characterization methods for biomass on the nanometer scale Cellulose hemicelluloses and lignin as nanoscopic biomaterials physical features chemical properties and potential nanoproducts Nanoscale surface engineering Renewable materials as scaffolds for tissue engineering Nanoscopically controlled drug delivery This book will be a valuable resource for chemists chemical engineers bioscience researchers and materials scientists who are interested in harnessing the nanotechnological features of renewable biomaterials

Lignin Matheus Poletto, 2018-03-21 Lignin Trends and Applications

consists of 11 chapters related to the lignin structure modification depolymerization degradation process computational modeling and applications This is a useful book for readers from diverse areas such as physics chemistry biology materials science and engineering It is expected that this book may expand the reader s knowledge about this complex natural polymer

Production of Biofuels and Chemicals with Pyrolysis Zhen Fang, Richard L. Smith Jr, Lujiang Xu, 2020-10-27 This book presents a collection of studies on state of art techniques for converting biomass to chemical products by means of pyrolysis which are widely applicable to the valorization of biomass In addition to discussing the fundamentals and mechanisms for producing bio oils chemicals gases and biochar using pyrolysis it outlines key reaction parameters and reactor configurations for various types of biomass Written by leading experts and providing a broad range of perspectives on cutting edge applications the book is a comprehensive reference guide for academic researchers and industrial engineers in the fields of natural renewable materials biorefinery of lignocellulose biofuels and environmental engineering and a valuable resource for university students in the fields of chemical engineering material science and environmental engineering Biopolymers and Composites Samy A. Madbouly, Chaoqun Zhang, 2021-10-04 The growing interest in replacing petroleum based products by inexpensive renewable natural materials will have a significant impact on sustainability environment and the polymer industry This book provides scientists a useful framework to help take advantage of the latest research conducted in this rapidly advancing field enabling them to develop and commercialize their own products quickly and more successfully

Biopolymer-Based Metal Nanoparticle Chemistry for Sustainable Applications Mahmoud Nasrollahzadeh, 2021-03-05 Biopolymers are becoming an increasingly important area of research as traditional chemical feedstocks run low and concerns about environmental impacts increase One area of particular interest is their use for more sustainable development of metal nanoparticles Biopolymer based Metal Nanoparticle Chemistry for Sustainability Applications Volume 1 reviews key polymers found in nature their characterization and modification and processes for using them in the development of metal nanoparticles Beginning with an introduction to both green chemistry and biopolymers in Part 1 the book goes on to outline the classification of biopolymers in Part 2 with specific details on polysaccharides proteins and polypeptides lignin and polylactic acid Properties of biopolymers including biodegradability and toxicity are the focus of Part 3 before Part 4 goes on to discuss synthesis and characterization Reviews novel sources of polymers with high potential as green media for synthesizing nanostructures Provides technological details on the synthesis of natural polymer based metal nanoparticles Highlights the use of natural polymer supports and the impact of their properties on stability morphology and scale of nanostructures **Plastic Waste and Recycling** Trevor Letcher, 2020-03-10 Plastic Waste and Recycling Environmental Impact Societal Issues Prevention and Solutions begins with an introduction to the different types of plastic materials their uses and the concepts of reduce reuse and recycle before examining plastic types chemistry and degradation patterns that are organized by non degradable plastic degradable and biodegradable plastics biopolymers and bioplastics Other sections

cover current challenges relating to plastic waste explain the sources of waste and their routes into the environment and provide systematic coverage of plastic waste treatment methods including mechanical processing monomerization blast furnace feedstocks gasification thermal recycling and conversion to fuel This is an essential guide for anyone involved in plastic waste or recycling including researchers and advanced students across plastics engineering polymer science polymer chemistry environmental science and sustainable materials Presents actionable solutions for reducing plastic waste with a focus on the concepts of collection re use recycling and replacement Considers major societal and environmental issues providing the reader with a broader understanding and supporting effective implementation Includes detailed case studies from across the globe offering unique insights into different solutions and approaches

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