Rafael Luque Alina Mariana Balu

Producing Fuels and Fine Chemicals from Biomass Using Nanomaterials

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Dale A. Stirling

Producing Fuels And Fine Chemicals From Biomass Using Nanomaterials:

Producing Fuels and Fine Chemicals from Biomass Using Nanomaterials Rafael Lugue, Alina Mariana Balu, 2013-10-28 Scarcity of resources and increasing population and energy demands are important issues of the twenty first century A multidisciplinary approach is needed to produce suitable alternatives such as renewable resources for a more sustainable future One of the most promising and widely available renewable feedstocks is biomass which has significant Fuels and Fine Chemicals from Biomass Using Nanomaterials Rafael Luque, Alina Mariana Balu, 2013-10-28 Scarcity of resources and increasing population and energy demands are important issues of the twenty first century A multidisciplinary approach is needed to produce suitable alternatives such as renewable resources for a more sustainable future One of the most promising and widely available renewable feedstocks is biomass which has significant potential for conversion to materials fuels and chemicals In addition nanomaterials can be designed for a range of applications including energy storage fuel production and nanocatalysis Designing nanomaterials for the valorization of biomass and waste feedstocks is a major step in advancing the application of nanomaterials and helping to move us toward the goal of a sustainable economy Producing Fuels and Fine Chemicals from Biomass Using Nanomaterials offers a wide ranging approach to the development of innovative nanomaterials for biomass conversion and the production of energy and high added value chemicals including biochemicals biomaterials and biofuels The book is organized into three parts according to nanomaterial applications Nanomaterials for Energy Storage and Conversion Biofuels from Biomass Valorization Using Nanomaterials and Production of High Added Value Chemicals from Biomass Using Nanomaterials Providing a multidisciplinary perspective this book covers the most important aspects of topics such as solar energy storage design of carbonaceous nanomaterials as heterogeneous catalysts for producing biofuels catalytic reforming of biogas into syngas using a range of nanoparticles and biofuels production from waste oils and fats It also describes the design and development of biocatalytic solid acid photocatalytic and nanostructured materials for the conversion of various biomass feedstocks to valuable chemicals as intermediates to end products such as biopolymers bioplastics biofuels agrochemicals and pharmaceutical products

Converting Power into Chemicals and Fuels Martin Bajus, 2023-07-10 CONVERTING POWER INTO CHEMICALS AND FUELS Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low carbon alternatives Power into Chemicals and Fuels stresses the versatility of hydrogen as an enabler of the renewable energy system an energy vector that can be transported and stored and a fuel for the transportation sector heating of buildings and providing heat and feedstock to industry It can reduce both carbon and local emissions increase energy security and strengthen the economy as well as support the deployment of renewable power generation such as wind solar nuclear and hydro With a focus on power to X technologies this book discusses the production of basic petrochemicals in such a way as to minimize the carbon footprint and develop procedures that save energy or use energy from renewable

sources Various different power to X system configurations are introduced with discussions on their performance environmental impact and cost Technologies for sustainable hydrogen production are covered focusing on water electrolysis using renewable energy as well as consideration of the remaining challenges for large scale production and integration with other technologies Power into Chemicals and Fuels readers will also find Discussion of recent advances in power into x technologies for the production of ethylene propylene formic acid and more Coverage of every stage in the power into x process from power generation to upgrading the final product Thermodynamic technoeconomic and life cycle assessment analyses of each major process Power into Chemicals and Fuels is a valuable resource for scientists and engineers working in the petrochemicals and hydrocarbons industries as well as for all industry professionals in these and related fields Nanotechnology Revolution Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national language i e China Online Journals e periodica J STAGE and SciELO Brazil among others

Chemicals and Fuels from Bio-Based Building Blocks Fabrizio Cavani, Stefania Albonetti, Francesco Basile, Alessandro Gandini, 2016-02-16 An up to date and two volume overview of recent developments in the field of chemocatalytic and enzymatic processes for the transformation of renewable material into essential chemicals and fuels Experts from both academia and industry discuss catalytic processes currently under development as well as those already in commercial use for the production of bio fuels and bio based commodity chemicals As such they cover drop in commodity chemicals and fuels as well as bio based monomers and polymers such as acrylic acid glycols polyesters and polyolefins In addition they also describe reactions applied to waste and biomass valorization and integrated biorefining strategies With its comprehensive coverage of the topic this is an indispensable reference for chemists working in the field of catalysis industrial

chemistry sustainable chemistry and polymer synthesis Thermochemical and Catalytic Conversion Technologies for Future Biorefineries Pradeep Verma, 2022-10-10 This book is an attempt to provide an account of biomass recalcitrance and available physical and chemical methods for biomass pretreatment and hydrolysis Its focuses on understanding the critical role of enzymes in the development of integrated biorefinery. The book also presents an overview of the utilization of waste biomass as a support system for enzyme immobilization for easy recovery and reuse for multiple cycles strategies where enzymes can be used The book also attempts to understand how enzymes can play a vital role in waste valorization for energy and biomaterial production Further the book will present an overview of how advanced technologies such as omics and in silico approaches can help in understanding the chemistry affecting recalcitrance and the mechanism of enzyme catalysts in their bioconversion An understanding of the life cycle assessment of waste biomass biorefinery will be needed before its implementation The book will serve as additional reading material for undergraduate and graduate students of energy studies chemical engineering applied biotechnology and environmental sciences. This book is of interest to academicians scientists environmentalists and policymakers Nanotechnology Safety Ramazan Asmatulu, Waseem S. Khan, Eylem Asmatulu, 2024-11-21 The second edition of Nanotechnology Safety outlines the safety regulatory and environmental issues related to nanotechnology per industry offering guidelines for risk assessment and discussion of the legal and social economic issues related to nanotechnology This book serves as a guide to implementing nanotechnology in compliance with the current safety regulations This revised edition is updated and provides full details of the latest advances in nanomaterials and nanotechnology including their industrial applications toxicity levels and protection systems Nanotechnology Safety remains an indispensable resource for academia and industries offering updates on recent processes and nanosystems the latest information about nanomanufacturing and their products for various industries and information about legislative policies of nanomaterials waste stream classifications safety goals processing facilities and market developments for new products The book provides researchers academics students and policymakers with information for research into and the manufacturing of nanomaterials Offers updates on most recent advances featuring new toxicity studies of nanomaterials their impact in many industries and providing future trends in nanomaterials and nanosafety and their emerging role in society Discusses the fundamentals ethics and regulatory and environmental issues of nanosafety and how they shape the emerging industry and markets Includes extensive lists of glossary terms terminologies and concepts needed for Material Data Safety Sheets Discusses the relevance of nanosafety including the Homeland Security and Infrastructure Industries Includes nanotechnology risk assessment and delineates and quantifies the risk assessment of nanotechnology safety Outlines the legal and intellectual property ramifications of nanotechnology and its impact on productivity and society

Solid Catalysts for the Upgrading of Renewable Sources Nicoletta Ravasio, Federica Zaccheria, 2019-03-26 The use of solid catalysts for the upgrade of renewable sources gives the opportunity to combine the two main cores of green

chemistry that is on the one hand the set up of sustainable processes and on the other the use of biomass derived materials Solid catalysts have taken on a leading role in traditional petrochemical processes and could represent a key tool in new biorefinery driven technologies This book will cover topics related to the preparation and use of heterogeneous catalytic systems for the transformation of renewable sources as well as of materials deriving from agro industrial wastes and by products At the same time the ever increasing importance of bioproducts due to the acceptance and request of consumers makes the upgrade of biomass into chemicals and materials not only an environmental issue but also an economical Photochemistry Angelo Albini, 2015-10-19 This anthological description of the history and applications of photochemistry provides photochemistry practitioners with complementary information about the field currently not covered in existing textbooks and handbooks The first part focuses on the historical development of the field including light matter interaction the discovery of photochemical reactions and the development of modern photochemical mechanisms This section provides useful background to the second part which outlines applications of photochemistry in the present day such as in synthesis green chemistry diagnostics medicine and nanotechnology Furthermore the author provides an outlook on promising areas for future developments The broad scope of Photochemistry Past Present and Future is also of interest to the wider chemical audience and it makes a pleasant read while not compromising on scientific rigor Nanomaterials in Biomass Conversion Komal Rizwan, Muhammad Bilal, 2024-02-23 Nanomaterials in Biomass Conversion Advances and Applications for Bioenergy Biofuels and Bio based Products critically reviews the basic principles through to the latest advances in the emerging field of nanotechnology for the production of biofuels and bioenergy Divided into 3 parts the first five chapters explain the fundamentals of nanomaterials their properties characterization and basic processes for synthesis Part 2 which constitutes the majority of the book reviews the various methods and technologies for the conversion of biomass to bioenergy biofuels and value added products using nanomaterials This includes homogeneous and heterogeneous nano catalytic systems nano photocatalytic conversion nanomaterial assisted anaerobic digestion nanoparticles immobilized enzymes conversion the production of biogas volatile fatty acids and value added products and in carbon capture and conversion to sustainable energy products as well as the potential of nano biochar nano cellulose and other nanomaterials in microbial fuel cells bioelectrochemical systems and batteries Finally Part 3 addresses the techno economics and financial viability in the context of the circular economy risk related to toxicology stability and environmental impacts and considers the various challenges and future opportunities of biomass conversion through nanomaterials Nanomaterials in Biomass Conversion is an invaluable resource for researchers and engineers involved in the production of bioenergy biofuel and bioproducts and will also be of benefit to those interested in environmental remediation pollution management and cleaner energy production Critically examines the role of nanomaterials in the management of waste biomass as applied to bioenergy and biofuels Explains various nanotechnological methods for the conversion of waste biomass into value added products

Discusses the basic principles operational aspects ongoing developments and future perspectives related to the applications of nanotechnologies and nanomaterials in biomass conversion Provides solutions to the key challenges of nanotechnologies and nanomaterials in the conversion of biomass along with future challenges and risks

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