

GREEN CHEMISTRY AND CHEMICAL ENGINEERING

Biofuels and Bioenergy

Processes and Technologies

Sunggyu Lee and Y.T. Shah



CRC Press

Taylor & Francis Group

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Kathryn Roberts



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Biofuels and Bioenergy Sunggyu Lee,Y.T. Shah,2012-08-30 The newest addition to the Green Chemistry and Chemical Engineering series from CRC Press Biofuels and Bioenergy Processes and Technologies provides a succinct but in depth introduction to methods of development and use of biofuels and bioenergy The book illustrates their great appeal as tools for solving the economic and environmental challenges associated with achieving energy sustainability and independence through the use of clean renewable alternative energy Taking a process engineering approach rooted in the fuel and petrochemical fields this book masterfully integrates coverage of current conventional processes and emerging techniques Topics covered include Characterization and analysis of biofuels Process economics Chemistry of process conversion Process engineering and design and associated environmental technologies Energy balances and efficiencies Reactor designs and process configurations Energy materials and process equipment Integration with other conventional fossil fuel processes Byproduct utilization Governmental regulations and policies and global trends After an overview of the subject the book discusses crop oils biodiesel and algae fuels It examines ethanol from corn and from lignocelluloses and then explores fast pyrolysis and gasification of biomass Discussing the future of biofuel production it also describes the conversion of waste to biofuels bioproducts and bioenergy and concludes with a discussion of mixed feedstock Written for readers with college level backgrounds in chemistry biology physics and engineering this reference explores the science and technology involved in developing biofuels and bioenergy It addresses the application of these and other disciplines covering key issues of special interest to fuel process engineers fuel scientists and energy technologists among others *Biofuels and Bioenergy* Sunggyu Lee,Y.T. Shah,2012-08-30 The newest addition to the Green Chemistry and Chemical Engineering series from CRC Press Biofuels and Bioenergy Processes and Technologies provides a succinct but in depth introduction to methods of development and use of biofuels and bioenergy The book illustrates their great appeal as tools for solving the economic and environmental challenge *Clean Energy Transition-via-Biomass Resource Utilization* Sachin Kumar,Suresh Sundaramurthy,Deepak Kumar,Anuj K. Chandel,2024-09-02 This book highlights clean energy transition via sustainable utilization of biomass resources viz forestry agriculture agroforestry grassland and seaweeds to climate change mitigation Bioresources have tremendous potential to mitigate global warming Also biomass is expected to play a multifunctional role including food production source of energy and fodder biodiversity conservation and yield of goods and services to the society It brings together perspectives of various communities involved in the research and regulation of bioenergy deployment in the context of climate change mitigation The book presents the way forward to policy makers and stakeholders involved with bioenergy development This development may be directive challenges in the transport sector where options such as hydrogen and electric vehicles relying on hydro wind and solar PV will require decades to become established on a substantial scale Furthermore meeting ambitious climate change targets will also require environment friendly fuels in air and marine

transport where no alternative to biofuels is currently available The process design via onion model for sustainable utilization of biomass resources is also one of the most important subjects of the book This book includes state of the art approaches on bottlenecks and circular economy analysis for biomass energy use to reduce climate change and sustainability frameworks to guide bioenergy development *Green Chemistry for Sustainable Biofuel Production* Veera Gnaneswar Gude, 2018-05-24

Renewable fuel research and process development requires interdisciplinary approaches involving chemists and physicists from both scientific and engineering backgrounds Here is an important volume that emphasizes green chemistry and green engineering principles for sustainable process development from an interdisciplinary point of view It creates an enriching knowledge base on green chemistry of biofuel production sustainable process development and green engineering principles for renewable fuel production This book includes chapters contributed by both research scientists and research engineers with significant experience in biofuel chemistry and processes The book offers an abundance of scientific experimental methods and analytical procedures and interpretation of the results that capture the state of the art knowledge in this field The wide range of topics make this book a valuable resource for academicians researchers industrial practitioners and scientists and engineers in various renewable energy fields Key features Emphasizes green chemistry and green engineering principles for sustainable process development for biofuel production Discusses a wide array of biofuels from algal biomass to waste to energy technologies and wastewater treatment and activated sludge processes Presents advances and developments in biofuel green chemistry and green engineering including process intensification microwaves ultrasound ionic liquids and green catalysis Looks at environmental assessment and economic impact of biofuel production *The Economics of Clean Energy* Kathryn Roberts, 2018-12-15 As of 2017 69 percent of Americans were in favor of restricting carbon emissions from coal power plants out of concern for climate change and the state of the environment but can we afford to make the change to cleaner energy sources This volume looks at the various alternative energy sources and their economic viability exploring the debate about which path forward makes the most sense Readers will gain a better understanding of the crossroads facing policymakers and the energy sector and be empowered to form their own opinions about how this urgent issue should be addressed *Sustainable Water Technologies* Daniel H. Chen, 2016-10-14

Development of advanced technologies is a critical component in overcoming the looming water crisis Stressing emerging technologies and strategies that facilitate water sustainability for future generations the second volume in the two volume set *Sustainable Water Management and Technologies* provides current and forthcoming technologies research development and applications to help ensure availability of water for all The book emphasizes emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products to protect the environment and human health save water and energy and minimize material use It also discusses such topics as groundwater transport protection and remediation industrial and wastewater treatment reuse and disposal membrane technology for water purification and

desalination treatment and disposal in unconventional oil and gas development biodegradation and bioremediation for soil and water Stresses emerging technologies and strategies that facilitate water sustainability Covers a wide array of topics including drinking water wastewater and groundwater treatment protection and remediation Discusses oil and gas drilling impacts and pollution prevention membrane technology for water desalination and purification biodegradation and bioremediation for soil and water Details emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products The Water-Food-Energy Nexus I. M. Mujtaba,R. Srinivasan,N. O.

Elbashir,2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply chain and enterprise

Green Chemistry, Sustainable Processes, and Technologies Hirech, Kamal,El Massaoudi, Mohamed,2025-04-22 As global environmental concerns like climate change rise green chemistry seeks to transform traditional chemical practices by incorporating renewable resources safer alternatives and cleaner technologies By reimagining how chemicals are produced and used green chemistry offers innovative solutions that not only reduce environmental impact but also enhance economic potential across industries From pharmaceuticals to energy the integration of sustainable processes paves the way for industrial growth aligned with environmental stewardship Further research will play a critical role in advancing a more sustainable and eco conscious global economy Green Chemistry Sustainable Processes and Technologies explores the innovative intersection of chemistry and sustainability focusing on the development of processes and technologies that minimize environmental impact while optimizing efficiency and safety It examines strategies for a more sustainable and eco friendly future supporting both the advancement of science and the global goals for sustainable development This book covers topics such as drug delivery environmental depollution and plant materials and is a useful resource for chemists

environmental scientists biologists business owners academicians and researchers

Environmental Transport

Phenomena A. Eduardo Sáez, James C. Baygents, 2014-12-01 This book offers a detailed yet accessible introduction to transport phenomena It begins by explaining the underlying principles and mechanisms that govern mass transport and continues by tackling practical problems spanning all subdisciplines of environmental science and chemical engineering Assuming some knowledge of ordinary differential equations and a familiarity with basic fluid mechanics applications this classroom tested text addresses mass conservation and macroscopic mass balances placing a special emphasis on applications to environmental processes and presenting a mathematical framework for formulating and solving transport phenomena problems

Integrated Biorefineries Paul R. Stuart, Mahmoud M. El-Halwagi, 2012-12-10 Integrated Biorefineries Design Analysis and Optimization examines how to create a competitive edge in biorefinery innovation through integration into existing processes and infrastructure Leading experts from around the world working in design synthesis and optimization of integrated biorefineries present the various aspects of this complex process capturing the state of the art in the advancing bioeconomy The book defines an integrated biorefinery as a processing facility that transforms biomass into value added products from biofuels and biochemicals to food and pharmaceuticals The chapters cover biorefinery product and process design supply chains process analysis feedstocks technologies and policy and environmental analysis They focus on second generation feedstocks including forestry resources energy crops agricultural residues oils and various waste materials With the growing interest in sustainability in general and in renewable resources in industrial facilities biorefineries are likely to play increasingly significant roles and have greater economic environmental and societal impact This book fills an information gap by presenting cutting edge advances that can effectively guide engineers and decision makers in the synthesis selection design analysis and optimization of biorefineries

The Top Books of the Year Biofuels And Bioenergy Processes And Technologies Green Chemistry And Chemical Engineering

The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year.

The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Biofuels And Bioenergy Processes And Technologies Green Chemistry And Chemical Engineering : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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