

Book review

Catalytic process development for renewable materials

Pieter Imhof and Jan Cornelis van der Waal (Eds.)

Wiley-VCH, 2013

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The book “Catalytic Process Development for Renewable Materials” has been compiled by the two editors Pieter Imhof and Jan Cornelis van der Waal both of whom have industrial catalytic experience (Avantium, Shell, Akzo-Nobel and Albermarle). One is a chemist experienced in parallel catalyst screening and the other is a chemical engineer, experienced with large-scale feedstock processing, including the respective biomass processes. Obviously, this is a good combination. The Preface is written by the CTO of Royal Dutch Shell, Jan van der Eijk, on the Next Feedstock Transition which shows the general focus of the book and shows the reader that this is a very relevant topic for global players and society in general. The editors have chosen authors or teams of authors for the single book chapters and the selection is a nice mixture between academia, public organizations and industry, involving on the public organization and industry side, authors from Statoil, LLC, Amyris, Baschem, Johnson Matthey, Lignol Innovations, and diverse US National Departments. Most of the writers come from North America (US, Canada), South America (Brazil) and Europe with a focus on the Netherlands. No authors from Asia or Australia are involved. Yet, the book can be considered to aim at a condensed “world view”.

A first look at the content list shows that the chapters are well structured and that the reader gets much information. Since the whole biomass topic comprises a myriad of information and subtopics, we expected such massive load of information; basically this is a new chemistry that shares all the facets of the existing one. It is certainly a hard job to condense that into one book and the authors have succeeded here. The next question then is this biomass book different from all the many, many others (especially those of the good Wiley-VCH series) mentioned as “Related Titles” in the beginning of the book. I have seen only a few of them, which limits my judgment here.

What can be said is that this book has its own original, authentic flavor which has been sketched already and which lies further in the fact that it is devoted to catalytic process development. The book opens with the first two chapters devoted to catalytic process development which is then expanded on in chapters 6 to 13. In between, two chapters are concerned with two very essential chemical synthetic pathways, terpenes and carbohydrates. There is a chapter on the use of the parallel screening reactor technology, which relates back to the catalyst mission of the book and the professional experience of the two editors. Thus, the book nicely and holistically moves through chemical pathways, novel reactors, testing protocols, full process implementation and ends with life cycle assessments. Coming back to the initial question, it is now clear “yes” – this book is different and it is worth buying, even if one has already a larger selection of biomass related books. The book’s main focus is on process development (with the exception of the chapter 5) and naturally nearly all the processes involved comprise and depend on catalysts. Yet, seeing that virtually all subtitles refer to the materials, reactors or processing, the catalytic aspect of the process development is more “served” inherently and consistently than as separate and distinctive idea. This may be worth considering for a second issue of the book.

Chapters 1 and 2 are a good beginning as they give a good overall picture. Chapter 1 “The Renewable Area” is written by the editors and shows great scientific competency in covering the main players and molecules in the catalytic processes. A lot of inside information is given; at least for those interested in applied chemistry. Chapter 2 “Selecting Targets” deals with the essential platform molecules and main pathways and focuses not only on a few industrially implemented roots but aims to give the comprehensive opinions of industrial and interest groups. We learn that these changes will take place over the next 10 years or so and the validity of some information of the book will depend somewhat on such change. But this is inherent on the dynamic biomass development and any book in the field suffers somewhat from this. Most books need to be updated after 10 years. Chapter 2 repeats some of the information of chapter 1, yet this is inherent to this multifaceted subject and is by no means a criticism. On

Catalytic Process Development For Renewable Materials

M.R. Riazi, David Chiaramonti



Catalytic Process Development For Renewable Materials:

Catalytic Process Development for Renewable Materials Pieter Imhof, Jan Cornelis van der Waal, 2013-02-28 Green clean and renewable are the hottest keywords for catalysis and industry This handbook and ready reference is the first to combine the fields of advanced experimentation and catalytic process development for biobased materials in industry It describes the entire workflow from idea approach research and process development right up to commercialization A large part of the book is devoted to the use of advanced technologies and methodologies like high throughput experimentation as well as reactor and process design models with a wide selection of real life examples included at each stage The contributions are from authors at leading companies and institutes providing firsthand information and knowledge that is hard to find elsewhere This work is aimed at decision makers engineers and chemists in industry chemists and engineers working with on renewables chemists in the field of catalysis and chemical engineers **Biocatalysis for Green**

Chemistry and Chemical Process Development Junhua (Alex) Tao, Romas Joseph Kazlauskas, 2011-08-30 This book describes recent progress in enzyme driven green syntheses of industrially important molecules The first three introductory chapters overview recent technological advances in enzymes and cell based transformations and green chemistry metrics for synthetic efficiency The remaining chapters are directed to case studies in biotechnological production of pharmaceuticals small molecules natural products and biologics flavors fragrance and cosmetics fine chemicals value added chemicals from glucose and biomass and polymeric materials The book is aimed to facilitate the industrial applications of this powerful and emerging green technology and catalyze the advancement of the technology itself *Bioenergy Research: Advances and Applications* Vijai G. Gupta, Maria Tuohy, Christian P Kubicek, Jack Saddler, Feng Xu, 2013-12-05 Bioenergy Research Advances and Applications brings biology and engineering together to address the challenges of future energy needs The book consolidates the most recent research on current technologies concepts and commercial developments in various types of widely used biofuels and integrated biorefineries across the disciplines of biochemistry biotechnology phytology and microbiology All the chapters in the book are derived from international scientific experts in their respective research areas They provide you with clear and concise information on both standard and more recent bioenergy production methods including hydrolysis and microbial fermentation Chapters are also designed to facilitate early stage researchers and enables you to easily grasp the concepts methodologies and application of bioenergy technologies Each chapter in the book describes the merits and drawbacks of each technology as well as its usefulness The book provides information on recent approaches to graduates post graduates researchers and practitioners studying and working in field of the bioenergy It is an invaluable information resource on biomass based biofuels for fundamental and applied research catering to researchers in the areas of bio hydrogen bioethanol bio methane and biorefineries and the use of microbial processes in the conversion of biomass into biofuels Reviews all existing and promising technologies for production of advanced biofuels in addition to bioenergy policies

and research funding Cutting edge research concepts for biofuels production using biological and biochemical routes including microbial fuel cells Includes production methods and conversion processes for all types of biofuels including bioethanol and biohydrogen and outlines the pros and cons of each *Commercializing Biobased Products* Seth W. Snyder,2016 Biobased products offer substantial economic and environmental benefits but understanding how to commercialize this requires a comprehensive look at the process including feedstocks technologies product slate supply chain policy financing and environmental impact Covering biobased products in a broad context this book examines the environmental and economic impacts compares US and EU policies explores the factors affecting financing and considers biological conversion catalytic conversion and separations By examining the process from several critical perspectives in the supply chain this book provides chemical engineers with a better understanding of challenges opportunities risks and benefits of commercialization **Renewable Resources and Renewable Energy** Paolo Fornasiero, Mauro

Graziani,2011-12-05 An accessible reference requiring minimal chemistry background this work offers insight into the chemical processes used in emerging technologies to achieve sustainable energy production It examines the catalytic processes involved in the transformation of bio based feedstock into clean and economically attractive products and highlights how this technology can be used for waste management solutions particularly in the synthetic polymers industry Next the authors discuss the promise of hydrogen based and fuel cell based technologies The text surveys currently available commercial technologies and includes real world case studies of renewable energy projects in Asia and South America

Catalysis for Renewables Gabriele Centi, Rutger A. van Santen,2008-01-08 With its focus on catalysis and addressing two very hot and timely topics with significant implications for our future lives this will be a white book in the field The authority behind this practical work is the IDECAT Network of Excellence and the authors here outline how the use of catalysis will promote the more extensive use of renewable feedstocks in chemical and energy production They present the latest applications their applicability and results making this a ready reference for researchers and engineers working in catalysis chemistry and industrial processes wishing to analyze options outlooks and opportunities in the field Process Development G. Herbert Vogel,2006-03-06 Guiding readers through all steps of the complex process this book covers the most diverse aspects of chemicals production including those not or insufficiently covered in natural science courses These comprise economic feasibility patenting and licensing demands on the location and the problem of waste disposal Throughout the author does not rely on simple references to other literature but instead reiterates many facts and places them in context as well as succinctly explaining formulas thus removing the need to look up items in secondary reference works As such the book is suitable for both newcomers as well as those already working in the field Those working in R D as well as plant managers will learn how to avoid pitfalls resulting in higher safety A common basis and indispensable ready reference for engineers and chemists **Biofuels Production and Processing Technology** M.R. Riazi, David Chiaramonti,2017-10-10

The importance of biofuels in greening the transport sector in the future is unquestionable given the limited available fossil energy resources the environmental issues associated to the utilization of fossil fuels and the increasing attention to security of supply This comprehensive reference presents the latest technology in all aspects of biofuels production processing properties raw materials and related economic and environmental aspects Presenting the application of methods and technology with minimum math and theory it compiles a wide range of topics not usually covered in one single book It discusses development of new catalysts reactors controllers simulators online analyzers and waste minimization as well as design and operational aspects of processing units and financial and economic aspects The book rounds out by describing properties specifications and quality of various biofuel products and new advances and trends towards future technology

Polygeneration with Polystorage Kaveh Rajab Khalilpour, 2018-11-27 Polygeneration with Polystorage For Energy and Chemicals addresses the problem of both traditional and dispersed generation with a broad multidisciplinary perspective As the first book to thoroughly focus on the topic of polygeneration users will find the problem presented from different scientific and technical domains down to both macro and micro levels Detailed analyses and state of the art developments in specific fields are included focusing on storage in conventional energy supply chains and demand side renewable polygeneration systems management advice and the necessary market mechanisms needed to support them This reference is useful for academics and professionals in conventional and unconventional energy systems Includes an outlined framework towards polygeneration and polystorage down to both micro and macro levels Contains fluid and continuous chapters that provide detailed analysis and a review of the state of the art developments in specific fields Addresses the wider global view of research advancement and potential in the role of polygeneration and polystorage in the move toward sustainability

Biomass Valorization Davide Ravelli, Chiara Samori, 2021-05-24 Explore the potential of biomass based chemicals with this comprehensive new reference from leading voices in the field With the depletion of fossil raw materials a readily ascertainable inevitability the exploitation of biomass based renewable derivatives becomes ever more practical and realistic In Biomass Valorization Sustainable Methods for the Production of Chemicals accomplished researchers and authors Davide Ravelli and Chiara Samori deliver a thorough compilation of state of the art techniques and most advanced strategies used to convert biomass into useful building blocks and commodity chemicals Each chapter in this collection of insightful papers begins by detailing the core components of the described technology along with a fulsome description of its advantages and limitations before moving on to a discussion of recent advancements in the field The discussions are grouped by the processed biomass such as terrestrial biomass aquatic biomass and biomass deriving waste Readers will also benefit from the inclusion of A thorough introduction to the role of biomass in the production of chemicals An exploration of biomass processing via acid base and metal catalysis as well as biocatalysis A practical discussion of biomass processing via pyrolysis and thermochemical biological hybrid processes A concise treatment of biomass processing assisted by ultrasound and via

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