

# Rafael Luque Universidad De Cordoba

Vishal Shah

## **The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio-chemicals** Kostas

Triantafyllidis, Angelos Lappas, Michael Stöcker, 2013-03-19 The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio-chemicals describes the importance of catalysis for the sustainable production of biofuels and biochemicals, focused primarily on the state-of-the-art catalysts and catalytic processes expected to play a decisive role in the green production of fuels and chemicals from biomass. In addition, the book includes general elements regarding the entire chain of biomass production, conversion, environment, economy, and life-cycle assessment. Very few books are available on catalysis in production schemes using biomass or its primary conversion products, such as bio-oil and lignin. This book fills that gap with detailed discussions of: - Catalytic pyrolysis of lignocellulosic biomass - Hybrid biogasoline by co-processing in FCC units - Fischer-Tropsch synthesis to biofuels (biomass-to-liquid process) - Steam reforming of bio-oils to hydrogen With energy prices rapidly rising, environmental concerns growing, and regulatory apparatus evolving, this book is a resource with tutorial, research, and technological value for chemists, chemical engineers, policymakers, and students. - Includes catalytic reaction mechanism schemes and gives a clear understanding of catalytic processes - Includes flow diagrams of bench-, pilot- and industrial-scale catalytic processing units and demonstrates the various process technologies involved, enabling easy selection of the best process - Incorporates many tables, enabling easy comparison of data based on a critical review of the available literature

*Emerging Environmental Technologies, Volume II* Vishal Shah, 2009-12-02 Within the span of last couple of years, the increasing human interference with various natural ecosystems and higher discharge of pollutants has presented numerous challenges to the society related to preserving the nature for a better tomorrow. The challenges also mount pressure on the scientific community to invent technologies that would provide solutions to the problems that are man made and also decrease the negative consequences that we are facing because of our own actions. This edited book attempts to present eight technological innovations that have shown potential to provide answers to a few challenges. Like the previous collection, the described innovations in the current volume also cover a range of areas including water and soil pollution, bio-sensors and energy. However, it is to be realized that no combination of technology can be enough to make a sizeable difference. As I said in my last collection, technological advances have to be integrated with a change in social behavior. The

philosophy of sustainable development has to be the principle of future planning and growth. In this collection, I am pleased to include an article on noise pollution. Noise is a pollutant of our own behavior and can only be solved by a behavioral change. The change that is either voluntary or enforced by laws. As an environmental scientist noise is not normally a pollutant that would come in mind as a leading pollutant.

Catalysis in Biomass Conversion ,2021-04-16 Catalysis in Biomass Conversion, Volume 77 in the Advances in Inorganic Chemistry series, presents timely and informative summaries on current progress in a variety of subject areas. This acclaimed serial features reviews written by experts in the field, serving as an indispensable reference to advanced researchers that empowers readers to pursue new developments in each field. Users will find this to be a comprehensive overview of recent findings and trends from the last decade that covers various kinds of inorganic topics, from theoretical oriented supramolecular chemistry, to the quest for accurate calculations of spin states in transition metals. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Advances in Inorganic Chemistry series

**Green Chemistry** Mark Anthony Benvenuto,Lindsey Welch,2023-10-24 The greening of industry processes—making them more sustainable—is a popular and often lucrative trend. The volume covers green chemical processing in the context of climate change. The impact of catalysis, remediation of pollutants, and sustainable practices in process development on climate change are themes addressed in this volume. We also explore the adoption of sustainability and environmental justice in educational curricula. The American Chemical Society’s 12 Principles of Green Chemistry are woven throughout this text as well as throughout the series to which this book belongs.

Production of Biofuels and Chemicals with Microwave Zhen Fang,Richard L. Smith, Jr.,Xinhua Qi,2014-11-26 Conversion of biomass into chemicals and biofuels is an active research and development area as trends move to replace traditional fossil fuels with renewable resources. By integrating processing methods with microwave and ultrasound irradiation into biorefineries, the time-scale of many operations can be greatly reduced while the efficiency of the reactions can be remarkably increased so that process intensification can be achieved. “Production of Biofuels and Chemicals with Microwave” and “Production of Biofuels and Chemicals with Ultrasound” are two independent volumes in the Biofuels and Biorefineries series that take different, but complementary approaches for the pretreatment and chemical transformation of biomass into chemicals and biofuels. The volume “Microwave” provides current research advances and prospects in theoretical and practical aspects of microwave irradiation including properties, effects and temperature monitoring, design of chemical reactors, synergistic effects on combining microwave, ultrasound, hydrodynamic cavitation and high-shear mixing into processes, chemical and catalytic conversion of lignin into chemicals, pyrolysis and gasification, syngas production from wastes, platform chemicals, algal biodiesel, cellulose-based nanocomposites, lignocellulosic biomass

pretreatment, green chemistry metrics and energy consumption and techno-economic analysis for a catalytic pyrolysis facility that processes pellets into aromatics. Each of the 12 chapters has been peer-reviewed and edited to improve both the quality of the text and the scope and coverage of the topics. Both volumes “Microwave” and “Ultrasound” are references designed for students, researchers, academicians and industrialists in the fields of chemistry and chemical engineering and include introductory chapters to highlight present concepts of the fundamental technologies and their application. Dr. Zhen Fang is Professor in Bioenergy, Leader and founder of biomass group, Chinese Academy of Sciences, Xishuangbanna Tropical Botanical Garden and is also adjunct Professor of Life Sciences, University of Science and Technology of China. Dr. Richard L Smith, Jr. is Professor of Chemical Engineering, Graduate School of Environmental Studies, Research Center of Supercritical Fluid Technology, Tohoku University, Japan. Dr. Xinhua Qi is Professor of Environmental Science, Nankai University, China.

**Sustainable Inorganic Chemistry** David A. Atwood, 2016-09-20 The Earth's natural resources are finite and easily compromised by contamination from industrial chemicals and byproducts from the degradation of consumer products. The growing field of green and sustainable chemistry seeks to address this through the development of products and processes that are environmentally benign while remaining economically viable. Inorganic chemistry plays a critical role in this endeavor in areas such as resource extraction and isolation, renewable energy, catalytic processes, waste minimization and avoidance, and renewable industrial feedstocks. Sustainable Inorganic Chemistry presents a comprehensive overview of the many new developments taking place in this rapidly expanding field, in articles that discuss fundamental concepts alongside cutting-edge developments and applications. The volume includes educational reviews from leading scientists on a broad range of topics including: inorganic resources, sustainable synthetic methods, alternative reaction conditions, heterogeneous catalysis, photocatalysis, sustainable nanomaterials, renewable and clean fuels, water treatment and remediation, waste valorization and life cycle sustainability assessment. The content from this book will be added online to the Encyclopedia of Inorganic and Bioinorganic Chemistry.

***Microwaves in Organic Synthesis*** Antonio de la Hoz, André Loupy, 2013-02-26 The third edition of the bestselling two-volume reference covers everything you need to know about microwave technology for synthesis - from the best equipment to nonthermal effects, from solid-support reactions to catalysis. Completely revised and updated with half of the authors completely new to the project, this comprehensive work is clearly divided into two parts on the fundamentals of microwave irradiation, and application of microwaves and synergies with other enabling techniques. Also new to this edition are chapters on on-line monitoring, flow chemistry, combination with ultrasounds and natural products, including multicomponent reactions. An indispensable source for organic, catalytic, physical, and medicinal chemists.

**Biorefinery** Juan-Rodrigo Bastidas-Oyanedel, Jens Ejbye Schmidt, 2019-04-15 This book discusses the biorefinery of biomass feedstocks. In-depth chapters highlight the scientific and technical aspects and present a techno-economic analysis

of such systems. By using a TEA approach, the authors present feasible pathways for the conversion of biomass (both residual biomass, energy crops, and algae biomass), showing the different possibilities for the production of biochemical materials, biofuels, and fertilizers. The concepts presented in this book will link companies, investors, and governments by providing a framework that will help reduce pollutants and create a biomass-related economy that incorporates the newest developments and technologies in the area.

**Production of Biofuels and Chemicals with Ionic Liquids** Zhen Fang, Richard L. Smith, Jr., Xinhua Qi, 2013-10-31 The application of ionic liquids to biomass for producing biofuels and chemicals will be one of the hot research areas during the next decade due to the fascinating properties of these versatile group of solvents that allow them to dissolve lignocellulosic materials. The present text provides up-to-date fundamentals, state-of-the-art reviews, current assessments and prospects in this area, including aspects of pretreatment, fermentation, biomass dissolution, cellulose transformation, reaction kinetics and physical properties, as well as the subsequent production of biofuels and platform chemicals such as sugars, aldehydes and acids. Auxiliary methods such as catalysis, microwave and enzymatic techniques used in the transformations are covered. Both researchers and practitioners are certain to find a wealth of information in the individual chapters, which were written by experts in the field to provide an essential basis for assessing possible pretreatment and transformation routes of biomass using ionic liquids, and for developing new methods and chemical processes. Dr. Zhen Fang is Professor of Bioenergy, head of the Chinese Academy of Sciences' Biomass Group, Xishuangbanna Tropical Botanical Garden and is also an Adjunct Professor of Life Sciences, University of Science and Technology of China. Dr. Richard L Smith, Jr. is Professor of Chemical Engineering at the Graduate School of Environmental Studies, Research Center of Supercritical Fluid Technology, Tohoku University, Japan. Dr. Xinhua Qi is Professor of Environmental Science at Nankai University, China.

**Microwave Chemistry** Giancarlo Cravotto, Diego Carnaroglio, 2017-09-25 Microwave Chemistry has changed the way to work in chemical laboratories and is an established state-of-the-art technology to accelerate and enhance chemical processes. This book not only gives an overview of the technology, its historical development and theoretical background, but also presents its exceptionally broad spectrum of applications. Microwave Chemistry enables graduate students and scientist to learn and apply its methods successfully.

**Heterogeneous Photocatalysis** Mario J. Muñoz-Batista, Alexander Navarrete Muñoz, Rafael Luque, 2020-07-01 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context

of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. The chapter Mechanochemical Forces as a Synthetic Tool for Zero and One-Dimensional Titanium Oxide-Based Nano-photocatalysts is available open access under a CC BY 4.0 License via [link.springer.com](http://link.springer.com).

**Waste Management and Valorization** Elena Cristina Rada, 2017-03-16 This title includes a number of Open Access chapters. Edited by a leading researcher in the field, this book provides an overview of waste valorization and includes the editor's research in addition to other experts and recent and relevant studies on this critical topic. It covers treatment and pretreatment technologies and methodologies, energy recovery from solid wastes, recycling and reuse, additional cutting-edge valorization methodologies. Primarily aimed at researchers and advanced students in biochemical, engineering, and environmental fields, this book should also provide a valuable reference for municipal legislators and industry practitioners.

**Solid Waste Management** Elena Cristina Rada, 2016-02-24 This title includes a number of Open Access chapters. This compendium volume contains the most current technical and economic analyses of emerging waste disposal strategies. The editor, a well-respected researcher in this field, has selected articles that will be valuable to readers who range from engineers and academics to decision-makers in both

**Nanotechnology in Catalysis** Bert Sels, Marcel Van de Voorde, 2017-06-21 Reflecting the R&D efforts in the field that have resulted in a plethora of novel applications over the past decade, this handbook gives a comprehensive overview of the tangible benefits of nanotechnology in catalysis. By bridging fundamental research and industrial development, it provides a unique perspective on this scientifically and economically important field. While the first three parts are devoted to preparation and characterization of nanocatalysts, the final three provide in-depth insights into their applications in the fine chemicals industry, the energy industry, and for environmental protection, with expert authors reporting on real-life applications that are on the brink of commercialization. Timely reading for catalytic chemists, materials scientists, chemists in industry, and process engineers.

**Advances in Artificial Intelligence** Oscar Luaces, José A. Gámez, Edurne Barrenechea, Alicia Troncoso, Mikel Galar, Héctor Quintián, Emilio Corchado, 2016-09-07 This book constitutes the refereed proceedings of the 16th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2016, held in Salamanca, Spain, in September 2016. The 47 revised full papers presented were carefully selected from 166 submissions. Apart from the presentation of technical full papers, the scientific program of CAEPIA 2016 included an App contest, a Doctoral Consortium and, as a follow-up to the success achieved in previously CAEPIA editions, a special session on outstanding recent papers (Key Works) already

published in renowned journals or forums.

**Nanoparticle Design and Characterization for Catalytic Applications in Sustainable Chemistry** Rafael Luque, Pepijn Prinsen, 2019-05-10 Nanoparticles exhibit a range of different properties when compared to bulk materials. Their high surface-area to volume ratio makes them particularly attractive for use as catalysts and recent years have seen an explosion of research in this area. The ability to fine-tune the size and structure of nanoparticles means that it is possible to design catalytic materials for improved activity or specificity. As catalysis is one of the key technologies for more sustainable production of both chemicals and energy, the past few years have seen increasing numbers of nanomaterials reported for these applications. Depending on the application, a number of different catalyst synthesis and optimization protocols can be used. This book provides comprehensive links between the design and fabrication method for nanoparticles and their catalytic performance (activity, selectivity and stability) in various applications. Presenting an introduction to the concept of catalyst design and recent developments in the preparation and characterisation of nanomaterials, followed by several chapters on the design of catalysts for specific applications, this book is a valuable resource for researchers working on catalytic reactions, industrial processes and nanomaterial applications.

**Advances in Biofuel Production** Barnabas Gikonyo, 2016-04-19 Due to their high growth rate, algae, microalgae, and aquatic plants are becoming the most promising photosynthetic organisms for biofuel production. *Advances in Biofuel Production: Algae and Aquatic Plants* explores current investigations and application of the fields of biofuel production and bioengineering and considers from a global context the

**Nanomaterials for Sustainable Energy** Quan Li, 2016-05-12 This book presents the unique mechanical, electrical, and optical properties of nanomaterials, which play an important role in the recent advances of energy-related applications. Different nanomaterials have been employed in energy saving, generation, harvest, conversion, storage, and transport processes very effectively and efficiently. Recent progress in the preparation, characterization and usage of 1D, 2D nanomaterials and hybrid architectures for energy-related applications and relevant technologies and devices, such as solar cells, thermoelectronics, piezoelectronics, solar water splitting, hydrogen production/storage, fuel cells, batteries, and supercapacitors is covered. Moreover, the book also highlights novel approaches in nanomaterials design and synthesis and evaluating materials sustainability issues. Contributions from active and leading experts regarding important aspects like the synthesis, assembly, and properties of nanomaterials for energy-related applications are compiled into a reference book. As evident from the diverse topics, the book will be very valuable to researchers working in the intersection of physics, chemistry, biology, materials science and engineering. It may set the standard and stimulates future developments in this rapidly emerging fertile frontier of nanomaterials for energy.

**Benzodiazepine-Based Drug Discovery** Farzad Zamani, Esmail Doustkhah, 2022-08-16 Benzodiazepine-Based Drug

Discovery covers benzodiazepines and benzothiazepines, which constitute two pivotal classes of heterocyclic compounds widely used as core structures of medicinal drugs for the treatment of depression, epilepsy, seizures and muscle spasms. 1,4-Benzodiazepine, 1,5-benzodiazepine, and 1,5-benzothiazepine are the most studied groups of benzodiazepines and benzothiazepines because of their outstanding potential biological activities. This book offers a broad range of recent developments and detailed coverage of the synthesis and biological activities of the drugs based on benzodiazepine and benzothiazepine matrixes, and is an ideal reference guide to researchers working in organic and medicinal chemistry. The importance of these privileged pharmacophores is not limited to the treatment of psychotic disorders because minor changes in the structures can generate various biological activities. They represent a wide range of therapeutic functions such as anticonvulsant, antianxiety, anti-depressant, antiviral, anti-HIV, anti-inflammatory, anticoagulant, anti-obesity, endothelin antagonist, cholecystokinin antagonist, and vasopressin receptor antagonist activities. - Presents detailed coverage of chemical structures and practical synthetic methods of benzodiazepines and benzothiazepines in drug discovery - Compiles detailed in vivo and in vitro biological activity data of 1,4-benzodiazepine- and 1,5-benzodiazepine-based drugs that will help researchers design and develop innovative drugs - Discusses promising avenues and potential challenges in the development of new benzodiazepines and benzothiazepines in medicinal drug synthesis

Bio-Based Solvents François Jérôme, Rafael Luque, 2017-06-29 A multidisciplinary overview of bio-derived solvent applications, life cycle analysis, and strategies required for industrial commercialization This book provides the first and only comprehensive review of the state-of-the-science in bio-derived solvents. Drawing on their own pioneering work in the field, as well as an exhaustive survey of the world literature on the subject, the authors cover all the bases—from bio-derived solvent applications to life cycle analysis to strategies for industrial commercialization—for researchers and professional chemists working across a range of industries. In the increasingly critical area of sustainable chemistry, the search for new and better green solvents has become a top priority. Thanks to their renewability, biodegradability and low toxicity, as well as their potential to promote advantageous organic reactions, green solvents offer the promise of significantly reducing the pernicious effects of chemical processes on human health and the environment. Following an overview of the current solvents markets and the challenges and opportunities presented by bio-derived solvents, a series of dedicated chapters cover all significant classes of solvent arranged by origin and/or chemical structure. Throughout, real-world examples are used to help demonstrate the various advantages, drawbacks, and limitations of each class of solvent. Topics covered include: The commercial potential of various renewably sourced solvents, such as glycerol The various advantages and disadvantages of bio-derived versus petroleum-based solvents Renewably-sourced and waste-derived solvents in the design of eco-efficient processes Life cycle assessment and predictive methods for bio-based solvents Industrial and commercial viability of bio-based solvents now and in the years ahead Potential and limitations of methodologies involving bio-derived solvents New

developments and emerging trends in the field and the shape of things to come Considering the vast potential for new and better products suggested by recent developments in this exciting field, Bio-Based Solvents will be a welcome resource among students and researchers in catalysis, organic synthesis, electrochemistry, and pharmaceuticals, as well as industrial chemists involved in manufacturing processes and formulation, and policy makers.

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