

RSC Green Chemistry

# Transition Metal Catalysis in Aerobic Alcohol Oxidation

Edited by Francesca Cardona and Camilla Parmeggiani



# <u>Transition Metal Catalysis In Aerobic Alcohol Oxidation</u> <u>Rsc Green Chemistry</u>

**S Nieto** 

#### Transition Metal Catalysis In Aerobic Alcohol Oxidation Rsc Green Chemistry:

Transition Metal Catalysis in Aerobic Alcohol Oxidation Francesca Cardona, Camilla Parmeggiani, 2014-10-21 The oxidation of primary and secondary alcohols to the corresponding carbonyl compounds is of fundamental importance in organic synthesis due to the wide use of these products as precursors and intermediates for many drugs vitamins and fragrances However traditional oxidants are often toxic and release considerable amounts of by products As an alternative oxygen is among the cheaper and less polluting stoichiometric oxidants and the implementation of a transition metal based catalyst in combination with oxygen represents an emerging alternative to the traditional procedures This book aims to give an overview of the aerobic oxidation of alcohols catalyzed by transition metals and covers the most important advances in the last fifteen years Following an introductory chapter on homogeneous heterogeneous and nano catalysis use of copper ruthenium palladium gold vanadium and iron are discussed in turn The book concludes with a useful overview that includes representative experimental procedures This book will provide a valuable reference to organic chemists and green chemists Transition Metal Catalysis in Aerobic Alcohol Oxidation Francesca Cardona, Camilla in academia and industry Parmeggiani, 2015 This book deals with the search for environmentally benign procedures for the oxidation of alcohols and gives an overview of their transition metal catalyzed aerobic oxidation Chemical Biotechnology and Bioengineering Xuhong Qian, Zhenjiang Zhao, Yufang Xu, Jian-He Xu, Y.-H. Zhang, Jingyan Zhang, Yang-Chun Yong, Fengxian Hu, 2015-05-22 In biotechnology and bioengineering small molecules can be used to increase the efficiency reduce the cost and damage to the environment of certain bioprocesses This book introduces readers to the important field of chemically promoted biotechnology and bioengineering and presents the theory behind the biotechnology of enzymatic reactions and how they can be chemically enhanced. The book covers chemical modulators for enzymatic reactions chemically promoted biotechnology in plant cell cultures chemically promoted biotechnology for plant protection and future prospects for the field Knowledge gained allows both chemists to make use of biotechnology to solve chemical problems in an environmentally friendly way and biologists to make use of chemistry to increase biotechnological efficiency This book is useful for scientists in a broad range of disciplines including agricultural chemistry pesticide science medicinal chemistry biochemistry bio organic chemistry cell and molecular biology Students and researchers in both academia and industry will find it a useful handbook

Starch-based Blends, Composites and Nanocomposites Visakh P. M., Long Yu, 2016 A comprehensive overview of recent developments in starch based materials ideal for students and researchers working in bio based and biodegradable polymers and composites Biomass Sugars for Non-Fuel Applications Dmitry Murzin, Olga Simakova, 2015-11-20 Providing an overview of sugar based technologies this book is a valuable resource for chemists working to develop greener synthetic routes to chemicals and pharmaceuticals 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

Polyhydroxyalkanoate (PHA) based Blends, Composites and Nanocomposites Ipsita Roy, P. M Visakh, 2014-11-12 A comprehensive overview of the recent accomplishments in the area of polyhydroxyalkanoates 
Porous Carbon Materials from Sustainable Precursors Robin J White, 2015-02-11 Porous carbon materials are at the heart of many applications including renewable energy storage and generation due to their superior physical properties and availability The environmentally friendly production of these materials is crucial for a sustainable future This book focuses on the transformation of sustainable precursors into functional porous carbonaceous materials via the two most significant approaches Starbon and Hydrothermal Carbonisation Covering cutting edge research and emerging areas chapters cover applications of porous carbon materials in catalysis and separation science as well as in energy science Moreover the challenges of characterization of these materials and their commercialization are explained by worldwide experts The content will be accessible and valuable to post graduate students and senior researchers alike and it will serve as a significant reference for academics and industrialists working in the areas of materials science catalysis and separation science 
Ionic Liquids in the Biorefinery Concept Rafal Bogel-Lukasik, 2016 Summarising advance in the use of ionic liquids in biomass processing this book is an important reference for researchers and practising chemists

Microwave-Assisted Polymerization Anuradha Mishra, Tanvi Vats, James H. Clark, 2016 This book will be a valuable resource for polymer scientists and engineers who want to develop sustainable processes using microwave assisted techniques Rubber Recycling Jin Kuk Kim, Prosenjit Saha, Sabu Thomas, Józef T Haponiuk, M K Aswathi, 2018-10-03 Rubber is used in a vast number of products from tyres on vehicles to disposable surgical gloves Increasingly both manufacturers and legislators are realising that recycling is essential for environmental sustainability and can improve the cost of manufacture The volume of rubber waste produced globally makes it difficult to manage as accumulated waste rubber especially in the form of tyres can pose a significant fire risk Recycling rubber not only prevents this problem but can produce new materials with desirable properties that virgin rubbers lack This book presents an up to date overview of the fundamental and applied aspects of renewability and recyclability of rubber materials emphasising existing recycling technologies with significant potential for future applications along with a detailed outline of new technology based processing of rubber to reuse and recycle This book will be of interest to researchers in both academia and industry as well as postgraduate students working in polymer chemistry materials processing materials science and engineering

**Advances in Organometallic Chemistry**, 2015-06-05 This volume contains authoritative reviews regarding the field of organometallic chemistry. It covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more and will benefit a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Contributions from leading authorities Informs and updates on all the latest developments in the field Carefully edited to provide easy to read material Sustainable Catalysis Michael North, 2016 Focussing on catalysis without metals or other endangered elements this book is an important reference for researchers working in catalysis and green chemistry **Sustainable Chemistry** Michael North, 2016 Focussing on catalysis through non endangered metals this book is an important reference for researchers working in catalysis and green chemistry The Chemistry of Hypervalent Halogen Compounds, 2 Volume Set Berit Olofsson, Ilan Marek, Zvi Rappoport, 2019-04-29 F r das Verst ndnis der organischen Chemie muss man wissen worum es sich bei funktionalen Gruppen handelt Dieses Fachbuch steht ganz in der Tradition der Reihe Patai s Chemistry of Functional Groups Jeder Band deckt s mtliche Aspekte funktionaler Gruppen ab und behandelt dabei theoretische analytische synthetische biologische Aspekte sowie Belange der Industrie Hypervalente Halogenverbindungen insbesondere Jodverbindungen sind beraus effiziente und selektive Oxidantien fr eine Vielzahl funktionaler Gruppen Die elektrophilen Eigenschaften dieser Reagenzien k nnen auch fr die Einf hrung anderer Funktionalisierungen verwendet werden Dieser Band ist der erste in der Reihe die Eigenschaften und das chemische Verhalten von hypervalentem Jod und Brom deren Einsatz in der organischen Synthese sowie deren industrielle Anwendung untersucht Wie bei allen neuen B nden werden die Kapitel zun chst online in Patai s Chemistry of Functional Groups ver ffentlicht Wenn ein Band online vervollst ndigt ist erfolgt die Herausgabe als Printversion Die Printfassung entspricht der Oualit t die man von der Patai Reihe kennt und bietet auch einen umfassenden Index **Alternative Energy Sources for Green Chemistry** Georgios Stefanidis, Andrzej Stankiewicz, 2016-08-24 The use of alternative energy forms and transfer mechanisms is one of the key approaches of process intensification In recent years significant amounts of research have been carried out in developing chemical processing technologies enhanced by plasma electric and magnetic fields electromagnetic and ultra sound waves and high gravity fields Discussing the broad impact of alternative energy transfer technologies on reactions separations and materials synthesis this book reports on recent breakthrough results in various application areas It provides a comprehensive overview of the current developments in the field The book enables industrialists academics and postgraduates in alternative energy based processing to see the potential of alternative energies for green chemistry and sustainability of chemical manufacturing Green Chemistry for Surface Coatings, Inks and Adhesives Rainer Höfer, Avtar Singh Matharu, Zhanrong Zhang, 2019-06-06 Many modern surface coatings and adhesives are derived from fossil feedstocks With fossil fuels becoming more polluting and expensive to extract as supplies dwindle industry is turning increasingly to nature mimicking natural solutions using renewable raw materials and employing new technologies

Highlighting sustainable technologies and applications of renewable raw materials within the framework of green and sustainable chemistry circular economy and resource efficiency this book provides a cradle to cradle perspective From potential feedstocks to recycling reuse opportunities and the de manufacture of adhesives and solvents green chemistry principles are applied to all aspects of surface coating printing adhesive and sealant manufacture This book is ideal for students researchers and industrialists working in green sustainable chemistry industrial coatings adhesives inks and printing technologies Green and Sustainable Medicinal Chemistry Louise Summerton, Helen F Sneddon, Leonie C Jones, James H Clark, 2016-03-08 Pharmaceutical manufacturing was one of the first industries to recognize the importance of green chemistry with pioneering work including green chemistry metrics and alternative solvents and reagents Today other topical factors also have to be taken into consideration such as rapidly depleting resources high energy costs and new legislation This book addresses current challenges in modern green chemical technologies and sustainability thinking It encompasses a broad range of topics covered by the CHEM21 project Europe's largest public private partnership project which aims to develop a toolbox of sustainable technologies for green chemical intermediate manufacture Divided into two sections the book first gives an overview of the key green chemistry tools guidance and considerations aimed at developing greener processes before moving on to look at cutting edge synthetic methodologies Featuring innovative research this book is an invaluable reference for chemists across academia and industry wanting to further their knowledge and understanding of this important topic Green Materials from Plant Oils Zengshe Liu, George Kraus, 2015 This book covers the synthesis of useful products and intermediates from plant oils which is a critically important area given current challenge of depleting fossil fuel reserves White Biotechnology for Sustainable Chemistry Maria Alice Z. Coelho, Bernardo D. Ribeiro, 2016

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