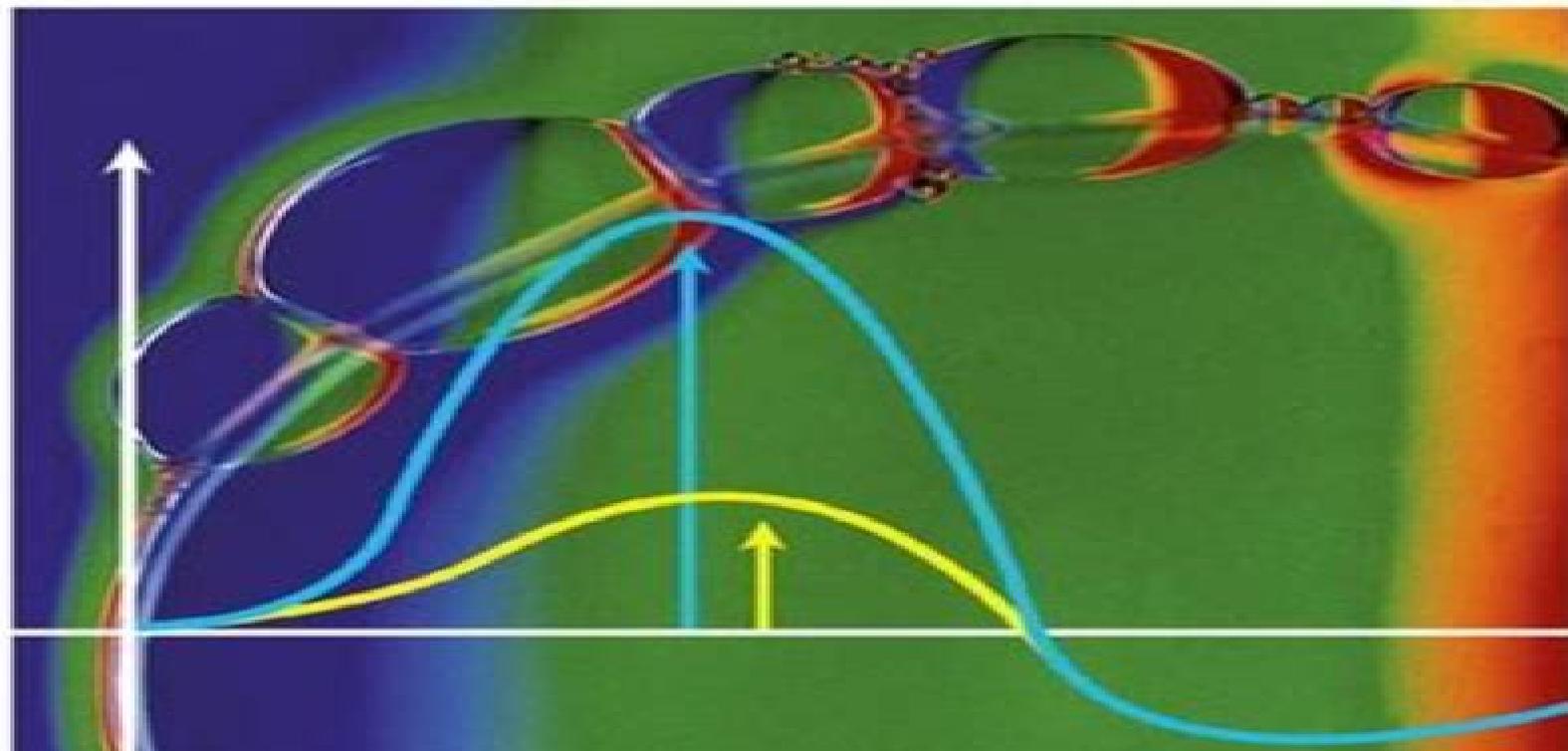


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Modern Heterogeneous Oxidation Catalysis

Design, Reactions and Characterization



Modern Heterogeneous Oxidation Catalysis Design Reactions And Characterization

Michael Brown



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Modern Oxidation Methods Jan-Erling Bäckvall, 2011-08-02 While rust is an unwanted oxidation reaction there are also many other useful oxidation reactions that are extremely important and number among the most commonly used reactions in the chemical industry This completely revised updated second edition now includes additional sections on industrial oxidation and biochemical oxidation Edited by one of the world leaders in the field high quality contributions cover every important aspect from classical to green chemistry methods Recent Developments in Metal catalyzed Dihydroxylation of Alkenes Transition Metal Catalyzed Epoxidation of Alkenes Organocatalytic Oxidation Ketone Catalyzed Asymmetric Epoxidation of Alkenes and Synthetic Applications Catalytic Oxidations with Hydrogen Peroxide in Fluorinated Alcohol Solvents Modern Oxidation of Alcohols using Environmentally Benign Oxidants Aerobic Oxidations and Related Reactions Catalyzed by N Hydroxyphthalimide Ruthenium Catalyzed Oxidation for Organic Synthesis Selective Oxidation of Amines and Sulfides Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates Oxidation of Carbonyl Compounds Manganese Catalyzed Oxidation with Hydrogen Peroxide Biooxidation with Cytochrome P450 Monooxygenases By providing an overview of this vast topic the book represents an unparalleled aid for organic catalytic and biochemists working in the field

Frontiers of Green Catalytic Selective Oxidations Konstantin P. Bryliakov, 2019-10-02 The demand for novel efficient and environmentally sustainable chemo regio and stereoselective catalyst systems for the oxidation of organic substrates is continuously growing in line with toughening economic and environmental constraints This book addresses these issues it consists of eleven chapters written by world recognized experts in green and sustainable oxidation catalysis The most urgent and challenging topics in the judgment of the editor such as green asymmetric epoxidations sulfoxidations C H oxidations oxidation catalysis by polyoxometalates and oxidations in non conventional solvents etc have been critically reviewed in this book Both fundamental aspects such as catalysts design catalytic properties nature of catalytically active sites and reaction mechanisms and practical outlook of the oxidations have been addressed by the authors The book appeals to a broad readership particularly graduate students employees of universities and research organizations and industrial researchers particularly those working in the areas of homogeneous oxidation catalysis asymmetric synthesis organocatalysis sustainable catalytic processes and green chemistry mechanisms of catalytic reactions synthesis of bioactive compounds biomimetic chemistry etc Konstantin Bryliakov is Leading Researcher at the Boreskov Institute of Catalysis In 2016 he was elected Honorary Professor of the Russian Academy of Sciences

Synthesis of Solid Catalysts Krijn P. de Jong, 2009-06-22 This practical book combines recent

progress with a discussion of the general aspects of catalyst preparation The first part deals with the basic principles of solid catalyst preparation explaining the main aspects of sol gel chemistry and interfacial chemistry followed by such techniques as co precipitation and immobilization New tools for catalyst preparation research including microspectroscopy and high throughput experimentation are also taken into account The second part heightens the practical relevance by providing six case studies on such topics as the preparation of zeolites hydrotreating catalysts methanol catalysts and gold catalysts

Catalytic Aerobic Oxidations Esteban Mejía,2020-07-14 Oxidation reactions are an important chemical transformation in both academia and industry Among the major advances in the field has been the development of catalytic processes which are not only selective and efficient but also allow the replacement of common stoichiometric oxidants with molecular oxygen ideally from air at atmospheric pressure This results in processes with higher atom efficiency where water is the only side product in line with the principles of green chemistry Focusing on the use of molecular oxygen as the terminal oxidant this book covers recent advances in both heterogeneous and homogeneous systems with and without metals and on the taming of the highly reactive oxygen gas by use of micro flow reactors and membranes A useful reference for industrial and academic chemists working on oxidation processes as well as green chemists

Catalysis James J. Spivey,Yi-Fan Han,2017-02-27 Catalysts are required for a variety of applications and industrialists and academics are increasingly challenged to find cost effective and environmentally benign catalysts to use This volume looks at modern approaches to catalysis and reviews the extensive literature on areas such as electrochemical promotion of catalysis biodiesel based metals on emission control devices deoxygenation of fatty acids and transitioning rationally designed catalytic materials to real world catalysts produced on a commercial scale

Encyclopedia of Interfacial Chemistry ,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions

The British National Bibliography Arthur James Wells,2009 [Concepts of Modern Catalysis and Kinetics](#) I. Chorkendorff,J. W. Niemantsverdriet,2003-12-30 This text spans the full range from fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies to their equivalent large scale industrial production processes

Metal Oxides in Heterogeneous Catalysis Jacques C. Vedrine,2018-01-11 Metal Oxides in Heterogeneous Catalysis is

an overview of the past present and future of heterogeneous catalysis using metal oxides catalysts The book presents the historical theoretical and practical aspects of metal oxide based heterogeneous catalysis Metal Oxides in Heterogeneous Catalysis deals with fundamental information on heterogeneous catalysis including reaction mechanisms and kinetics approaches There is also a focus on the classification of metal oxides used as catalysts preparation methods and touches on zeolites mesoporous materials and Metal organic frameworks MOFs in catalysis It will touch on acid or base type reactions selective partial and total oxidation reactions and enzymatic type reactions The book also touches heavily on the biomass applications of metal oxide catalysts and environmentally related depollution reactions such as COVs elimination DeNOx and DeSOx Finally the book also deals with future trends and prospects in metal oxide based heterogeneous catalysis Presents case studies in each chapter that provide a focus on the industrial applications Includes fundamentals key theories and practical applications of metal oxide based heterogeneous catalysis in one comprehensive resource Edited and contributed by leading experts who provide perspectives on synthesis characterization and applications

Chemical Reaction Analysis
Eugene E. Petersen,1965 Selective Oxidation by Heterogeneous Catalysis Gabriele Centi,Fabrizio Cavani,Ferruccio Trifirò,2012-12-06 Selective Oxidation by Heterogeneous Catalysis covers one of the major areas of industrial petrochemical production outlining open questions and new opportunities It gives keys for the interpretation and analysis of data and design of new catalysts and reactions and provides guidelines for future research A distinctive feature of this book is the use of concept by example Rather than reporting an overview of the literature results the authors have selected some representative examples the in depth analysis of which makes it possible to clarify the fundamental but new concepts necessary for a better understanding of the new opportunities in this field and the design of new catalysts or catalytic reactions Attention is given not only to the catalyst itself but also to the use of the catalyst inside the process thus evidencing the relationship between catalyst design and engineering aspects of the process This book provides suggestions for new innovative directions of research and indications on how to reconsider the field of selective oxidation from different perspectives outlining that is not a mature field of research but that new important breakthroughs can be derived from fundamental and applied research Suggestions are offered on how to use less conventional approaches in terms of both catalyst design and analysis of the data

Chemical Engineering Education ,1989 **Kinetics and Catalysis** ,1981
Chimie Pure Et Appliquée ,2006 **Directory of Published Proceedings** ,1996 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain),1938 Lists of members for 1882 1903 issued in v 1 22 after which they were published separately wanting in v 6 and v 21 **Liquid Phase Oxidation via Heterogeneous Catalysis**
Mario G. Clerici,Oxana A. Kholdeeva,2013-04-26 Sets the stage for environmentally friendly industrial organic syntheses From basic principles to new and emerging industrial applications this book offers comprehensive coverage of heterogeneous liquid phase selective oxidation catalysis It fully examines the synthesis characterization and application of catalytic

materials for environmentally friendly organic syntheses Readers will find coverage of all the important classes of catalysts with an emphasis on their stability and reusability Liquid Phase Oxidation via Heterogeneous Catalysis features contributions from an international team of leading chemists representing both industry and academia The book begins with a chapter on environmentally benign oxidants and then covers Selective oxidations catalyzed by TS 1 and other metal substituted zeolites Selective catalytic oxidation over ordered nanoporous metallo aluminophosphates Selective oxidations catalyzed by mesoporous metal silicates Liquid phase oxidation of organic compounds by supported metal based catalysts Selective liquid phase oxidations in the presence of supported polyoxometalates Selective oxidations catalyzed by supported metal complexes Liquid phase oxidation of organic compounds by metal organic frameworks Heterogeneous photocatalysis for selective oxidations with molecular oxygen All the chapters dedicated to specific types of catalysts follow a similar organization and structure making it easy to compare the advantages and disadvantages of different catalysts The final chapter examines the latest industrial applications such as the production of catechol and hydroquinone cyclohexanone oxime and propylene oxide With its unique focus on liquid phase heterogeneous oxidation catalysis this book enables researchers in organic synthesis and oxidation catalysis to explore and develop promising new catalytic materials and synthetic routes for a broad range of industrial applications

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