

# Selective Oxidation by Heterogeneous Catalysis

Gabriele Centi,  
Fabrizio Cavani, and  
Ferruccio Trifirò

# Selective Oxidation By Heterogeneous Catalysis

**George A. Olah,Árpád Molnár**



## **Selective Oxidation By Heterogeneous Catalysis:**

**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 New Developments in Selective Oxidation by Heterogeneous Catalysis P. Ruiz, B. Delmon, 1992-02-06 This volume contains invited papers and communications presented at the Third European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis The purpose of the meeting was to present recent results and to discuss new aspects of partial oxidation by heterogeneous catalysis The following topics were discussed Novel processes for obtaining new fine chemicals by catalytic partial oxidation selective oxidation and oxidative dehydrogenation of alkanes new catalysts and advances in preparation methods of oxidation catalysts new phenomena in partial oxidation and new aspects of surface chemistry in oxide catalysts new applications of physicochemical methods for characterization of oxide catalysts oxidation with other agents than oxygen and catalytic oxidation of carbohydrates This book will provide a valuable set of data on reactions of selective oxidation which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field The wide range approach to reactions of selective oxidation will disseminate knowledge in specialized areas of selective oxidation and encourage innovation and creativity

**Heterogeneous Catalytic Oxidation** B. K. Hodnett, 2000-07-13 Table of contents 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 *New Developments in Selective Oxidation by Heterogeneous Catalysis (Volume 72)*. Ruiz P.,1991 **New Developments in Selective Oxidation by Heterogeneous Catalysis** Patricio Ruiz,Bernard Delmon,1992-01-01 This volume contains invited papers and communications presented at the Third European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis The purpose of the meeting was to present recent results and to discuss new aspects of partial oxidation by heterogeneous catalysis The following topics were discussed Novel processes for obtaining new fine chemicals by catalytic partial oxidation selective oxidation and oxidative dehydrogenation of alkanes new catalysts and advances in preparation methods of oxidation catalysts new phenomena in partial oxidation and new aspects of surface chemistry in oxide catalysts new applications of physicochemical methods for characterization of oxide catalysts oxidation with other agents than oxygen and catalytic oxidation of carbohydrates This book will provide a valuable set of data on reactions of selective oxidation which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field The wide range approach to reactions of selective oxidation will disseminate knowledge in specialized areas of selective oxidation and encourage innovation and creativity

*Heterogeneous Catalysis for Selective Oxidation* Graham J. Hutchings,2004 **Modern Heterogeneous Oxidation Catalysis** Noritaka Mizuno,2009-11-18 Filling a gap in the current literature this comprehensive reference presents all important catalyst classes including metal oxides polyoxometalates and zeolites Readers will find here everything they need to know from structure design to characterization and from immobilization to industrial processes A true must have for anyone working in this key technology *Proceedings of the 5th European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis* Manfred Baerns,1996 *New Developments in Selective Oxidation II* V. Cortés Corberán,S. Vic

Bellón,1994-06-21 This volume contains invited papers and communications presented at the Second World Congress and Fourth European Workshop Meeting on New Developments in Selective Oxidation The purpose of the meeting was to present new topics and recent advances as well as the discussion of new aspects of fundamental and applied aspects of partial selective oxidation in heterogeneous and homogeneous catalysis The following topics were discussed New processes for fine chemicals by catalytic oxidation Recent developments in surface chemistry of oxide catalysts Novel catalytic systems and preparation methods Heterogenized homogeneous oxidation catalysts Selective oxidation and oxidative dehydrogenation of alkanes New industrial developments based on catalytic oxidation reactions Bio photo and electro catalytic oxidation Oxidation by other agents than dioxygen Bifunctional metal on metal oxide catalysts for selective oxidation This book provides a valuable set of data on selective oxidation reactions which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field Proceeding of the Fifth European Workshop Meeting on Selective Oxidation by Heterogeneous Catalysis Manfred Baerns,Robert Schlogl,1996 New Developments in Selective Oxidation G. Centi,F. Trifiró,1990-04-26 Approx 890 pages Microwave-assisted Heterogeneous Catalysis of Propene Selective Oxidation Jia Sun,2022 **Hydrocarbon Chemistry** George A. Olah,Árpád Molnár,2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy Diminishing petroleum supplies regulatory problems and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár the completely revised and expanded Second Edition of Hydrocarbon Chemistry provides an unparalleled contemporary assessment of the field presenting basic concepts current research and future applications Hydrocarbon Chemistry begins by discussing the general aspects of hydrocarbons the separation of hydrocarbons from natural sources and the synthesis from C1 precursors with recent developments for possible future applications Each successive chapter deals with a specific type of hydrocarbon transformation The Second Edition includes a new section on the chemical reduction of carbon dioxide focusing on catalytic ionic electrocatalytic photocatalytic and enzymatic reductions as well as a new chapter on new catalysts and activation methods combinatorial chemistry and environmental chemistry Other topics covered include Major processes of the petrochemical industry such as cracking reforming isomerization and alkylation Derivation reactions to form carbon heteroatom bonds Hydrocarbon oxidations Metathesis Oligomerization and polymerization of hydrocarbons All chapters have been updated by adding sections on recent developments to review new advances and results Essential reading for practicing scientists in industry polymer and catalytic chemists as well as researchers and graduate students Hydrocarbon Chemistry Second Edition remains the benchmark text in its field **Computational Modeling of Inorganic Nanomaterials** Stefan T. Bromley,Martijn A. Zwijnenburg,2016-04-06 Computational Modeling of Inorganic Nanomaterials provides an accessible unified introduction to a

variety of methods for modeling inorganic materials as their dimensions approach the nanoscale With contributions from a team of international experts the book guides readers on choosing the most appropriate models and methods for studying the structure

*Active Oxygen in Chemistry* Christopher S. Foote, Joan Selverstone Valentine, A. Greenberg, Joel F. Liebman, 2012-12-06

Taking an interdisciplinary approach this book and its counterpart *Active Oxygen in Biochemistry* explore the active research area of the chemistry and biochemistry of oxygen Complementary but independent the two volumes integrate subject areas including medicine biology chemistry engineering and environmental studies

**Adsorption on New and Modified Inorganic Sorbents** A. Dabrowski, V.A. Tertykh, 1996-01-15 There has been a lack of authoritative current information on the structure investigation and preparation of inorganic sorbents their numerous applications as well as the adsorption from gaseous and liquid phases on new and chemically modified inorganic solids This volume deals with the above mentioned themes and presents 34 up to date comprehensive and critical reviews written by well recognized authorities The sorbents discussed are primarily mineral ones Each contribution treats a problem critically by showing its development presenting documentation on the state of the art and identifying subjects for further research The book will be of interest to researchers in academic institutes and industrial laboratories engaged in the fields of surface chemistry inorganic chemistry adsorption ion exchange catalysis chromatography and spectroscopy of the surface phenomena as well as to students attending graduate and postgraduate courses

**Applications in Industry**, 1998-12-17

Volume I contains a brief review of adsorption history and its development for practical purposes up until now It also presents some important information on adsorbents and catalysts as well as on the methods of their characterization The part of this volume dealing with practical industrial applications includes chapters presenting advanced technical tools for high capacity adsorption separation of liquid and gas mixtures development of new adsorbents for removal of hazardous contaminants from combustion flue gases and wastewaters degasification of coal seams and fabrication of inorganic membranes and their applications A comprehensive review is also included on contemporary utility of self assembled monolayers adsorption proteins and their role in modern industry adsorption methods in technology of optical fibre glasses sol gel technology solid desiccant dehumidification systems etc The articles give both the scientific backgrounds of the phenomena discussed and emphasize their practical aspects The chapters give not only brief current knowledge about the studied problems but are also a source of topical literature on the subject A comprehensive bibliography on adsorption principles design data and adsorbent materials for industrial applications for the period 1967 1997 concludes the book

**Characterization of Porous Solids VII** Philip Llewellyn, Francisco Rodríguez Reinoso, Jean Rouquerol, Nigel Seaton, 2006-08-07 The 7th International Symposium on the Characterization of Porous Solids COPS VII was held in the Congress Centre in Aix en Provence between the 25th 28th May 2005 The symposium covered recent results of fundamental and applied research on the characterization of porous solids Papers relating to characterization methods such as gas

adsorption and liquid porosimetry X ray techniques and microscopic measurements as well as the corresponding molecular modelling methods were given These characterization methods were shown to be applied to all types of porous solids such as clays carbons ordered mesoporous materials porous glasses oxides zeolites and metal organic frameworks 36 oral presentations and 166 posters and around 230 guests from 27 countries A large part of this symposium was devoted to the use computational methods to characterise porous solids     Experiments in Catalytic Reaction Engineering J.M.

Berty,1999-08-11 The science of catalytic reaction engineering studies the catalyst and the catalytic process in the laboratory in order to predict how they will perform in production scale reactors Surprises are to be avoided in the scaleup of industrial processes The laboratory results must account for flow heat and mass transfer influences on reaction rate to be useful for scaleup Calculated performance based on these results must also be useful to maximization of profit and safety and minimization of pollution To this end information on products as well as byproducts and heat produced must be generated If a sufficiently large database of knowledge is produced optimization studies will be possible later if economic conditions change The field of reaction engineering required new tools For kinetic and catalyst testing the most successful of these tools was the internal recycle reactor Studies in recycle reactors can be made under well defined conditions of flow and associated transfer processes and close to commercial operation The recycle reactor eliminates or minimizes the effect of transfer process and allows the remaining ones to be known Features of this book Provides insight into a field that is neither well understood nor properly appreciated Gives a deeper understanding of reaction engineering practice Helps avoid frustration and disappointment in industrial research This book is short and clear enough to assist all members of the R D and Engineering team whether reaction engineers or specialists in other fields This is critical in this new age of computation and communication when team members must each know at least something of their colleagues fields Additionally many scientists in more exploratory or fundamental fields can use recycle reactors to study basic phenomena free of transfer interactions

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