

Selective Oxidation by Heterogeneous Catalysis

Gabriele Centi,
Fabrizio Cavani, and
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Selective Oxidation By Heterogeneous Catalysis

P. Ruiz, B. Delmon



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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

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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

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Carbon Nanomaterials Sourcebook Klaus D. Sattler, 2016-04-06 The Carbon Nanomaterials Sourcebook contains extensive interdisciplinary coverage of carbon nanomaterials encompassing the full scope of the field from physics chemistry and materials science to molecular biology engineering and medicine in two comprehensive volumes Written in a tutorial style this second volume of the sourcebook Focuses on nanoparticles nanocapsules nanofibers nanoporous structures and nanocomposites Describes the fundamental properties growth mechanisms and processing of each nanomaterial discussed Explores functionalization for electronic energy biomedical and environmental applications Showcases materials with exceptional properties synthesis methods large scale production techniques and application prospects Provides the tools necessary for understanding current and future technology developments including important

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Bekkum, 2001-06-26 In view of the substantial progress made in the last decade in the fields of zeolites and related materials it was decided to go for an extended 2nd Edition of Introduction to Zeolite Science and Practice Unfortunately as often is the case this process took more time than expected by the Editors In the mean time some new texts on zeolites were issued Nevertheless the combination of data discussion and dedication provided by the present book is a unique coverage of the field in the opinion of the Editors In the present Edition the number of chapters rose from 16 to 22 The contributions can be divided into three categories updated chapters by the original authors updated chapters by an expanded or new team of authors and completely new chapters This 2nd Edition also contains new chapters on Zeolite based supramolecular assemblies by Dirk De Vos and Pierre Jacobs experts in this area and on The use of bulky probe molecules by Paul Kunkeler Roger Downing and one of the Editors Finally the super large pore zeolites and the fast growing area of ordered mesoporous materials are dealt with by Eelco Vogt Charlie Kresge and Jim Vartuli The latter two authors belong to the discoverers of the M41S family of mesoporous materials *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

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