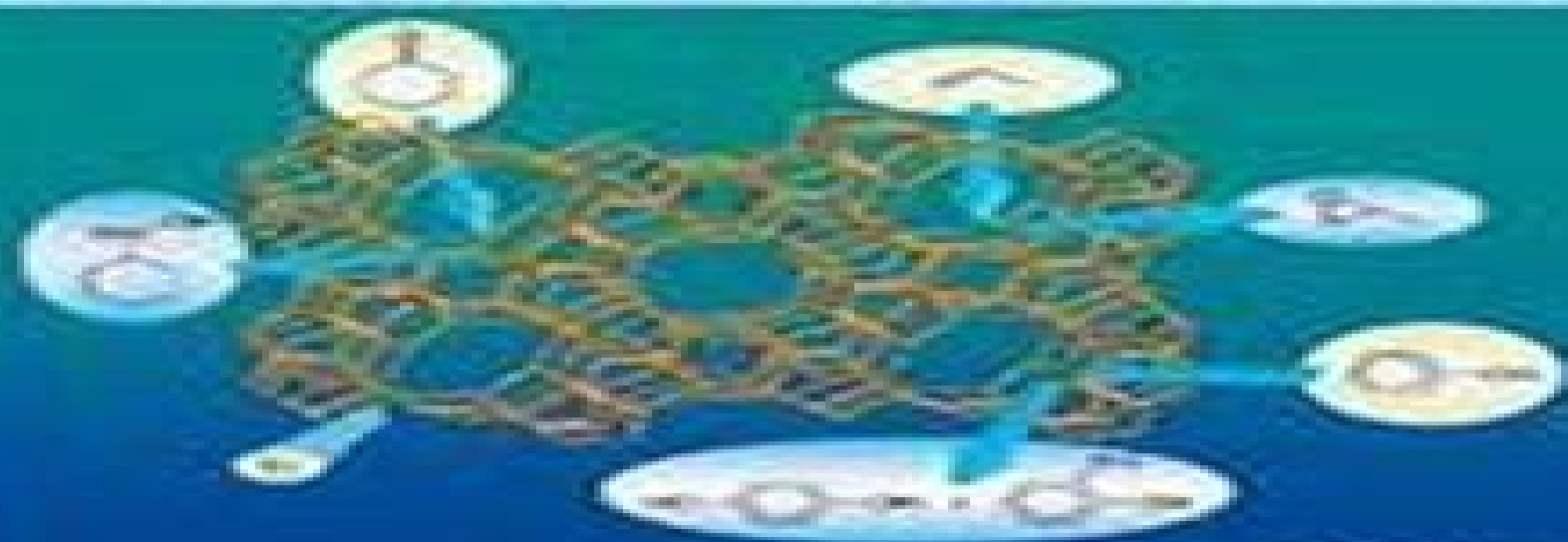


# Liquid Phase Oxidation via Heterogeneous Catalysis

*Organic Synthesis and Industrial Applications*

*Edited by*  
Mario G. Clerici and Oana A. Kholdeeva



WILEY

# Liquid Phase Oxidation Via Heterogeneous Catalysis Organic Synthesis And Industrial Applications

**Arup K. Sengupta**



## **Liquid Phase Oxidation Via Heterogeneous Catalysis Organic Synthesis And Industrial Applications:**

**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 **Liquid Phase**

**Aerobic Oxidation Catalysis** Shannon S. Stahl, Paul L. Alsters, 2016-07-13 The first book to place recent academic developments within the context of real life industrial applications this is a timely overview of the field of aerobic oxidation reactions in the liquid phase that also illuminates the key challenges that lie ahead As such it covers both homogeneous as well as heterogeneous chemocatalysis and biocatalysis along with examples taken from various industries bulk chemicals and monomers specialty chemicals flavors and fragrances vitamins and pharmaceuticals One chapter is devoted to reactor concepts and engineering aspects of these methods while another deals with the relevance of aerobic oxidation catalysis for the conversion of renewable feedstock With chapters written by a team of academic and industrial researchers this is a valuable reference for synthetic and catalytic chemists at universities as well as those working in the pharmaceutical and fine chemical industries seeking a better understanding of these reactions and how to design large scale processes based on this technology **Perovskites and Related Mixed Oxides** Pascal Granger, Vasile I. Parvulescu, Serge Kaliaguine, Wilfrid Prellier, 2016-02-23 This comprehensive handbook and ready reference details all the main achievements in the field of perovskite based and related mixed oxide materials The authors discuss in an unbiased manner the potentials as well as the

challenges related to their use thus offering new perspectives for research and development on both an academic and industrial level The first volume begins by summarizing the different synthesis routes from molten salts at high temperatures to colloidal crystal template methods before going on to focus on the physical properties of the resulting materials and their related applications in the fields of electronics energy harvesting and storage as well as electromechanics and superconductivity The second volume is dedicated to the catalytic applications of perovskites and related mixed oxides including but not limited to total oxidation of hydrocarbons dry reforming of methane and denitrogenation The concluding section deals with the development of chemical reactors and novel perovskite based applications such as fuel cells and high performance ceramic membranes Throughout the contributions clearly point out the intimate links between structure properties and applications of these materials making this an invaluable tool for materials scientists and for catalytic and physical chemists

**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

Catalysis in Confined Frameworks Hermenegildo Garcia, Amarajothi Dhakshinamoorthy, 2023-10-16 Catalysis in Confined Frameworks Understanding the synthesis and applications of porous solid catalysts Heterogeneous catalysis is a catalytic process in which catalysts and reactants exist in different phases Heterogeneous catalysis with solid catalysts proceeds through the absorption of substrates and reagents which are liquid or gas and this is largely dependent on the accessible surface area of the solid which can generate active reaction sites The synthesis of porous solids is an increasingly productive approach to generating solid catalysts with larger accessible surface area allowing more efficient catalysis Catalysis in Confined Frameworks Synthesis Characterization and Applications provides a comprehensive overview of synthesis and use of porous solids as heterogeneous catalysts It provides detailed analysis of pore engineering a thorough characterization of the advantages and disadvantages

of porous solids as heterogeneous catalysts and an extensive discussion of applications The result is a foundational introduction to a cutting edge field Catalysis in Confined Frameworks Synthesis Characterization and Applications readers will also find An editorial team comprised of international experts with extensive experience Detailed discussion of catalyst classes including zeolites mesoporous aluminosilicates and more A special focus on size selective catalysis Catalysis in Confined Frameworks Synthesis Characterization and Applications is an essential reference for catalytic chemists organic chemists materials scientists physical chemists and any researchers or industry professionals working with heterogeneous catalysis

**New Frontiers in Nanochemistry: Concepts, Theories, and Trends** Mihai Putz, 2020-05-06 New Frontiers in Nanochemistry Concepts Theories and Trends Volume 2 Topological Nanochemistry is the second of the new three volume set that explains and explores the important basic and advanced modern concepts in multidisciplinary chemistry Under the broad expertise of the editor this second volume explores the rich research areas of nanochemistry with a specific focus on the design and control of nanotechnology by structural and reactive topology The objective of this particular volume is to emphasize the application of nanochemistry With 46 entries from eminent international scientists and scholars the content in this volume spans concepts from A to Z from entries on the atom bond connectivity index to the Zagreb indices from connectivity to vapor phase epitaxy and from fullerenes to topological reactivity and much more The definitions within the text are accompanied by brief but comprehensive explicative essays as well as figures tables etc providing a holistic understanding of the concepts presented

**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

*New Frontiers in Nanochemistry: Concepts, Theories, and Trends, 3-Volume Set* Mihai V. Putz, 2022-05-29 New Frontiers in Nanochemistry Concepts Theories and Trends 3 Volume Set explains and explores the important fundamental and advanced modern concepts from various areas of nanochemistry and more broadly the

nanosciences This innovative and one of a kind set consists of three volumes that focus on structural nanochemistry topological nanochemistry and sustainable nanochemistry respectively collectively forming an explicative handbook in nanochemistry The compilation provides a rich resource that is both thorough and accessible encompassing the core concepts of multiple areas of nanochemistry It also explores the content through a trans disciplinary lens integrating the basic and advanced modern concepts in nanochemistry with various examples applications issues tools algorithms and even historical notes on the important people from physical quantum theoretical mathematical and even biological chemistry

*Arene Chemistry* Jacques Mortier, 2015-12-14 Organized to enable students and synthetic chemists to understand and expand on aromatic reactions covered in foundation courses the book offers a thorough and accessible mechanistic explanation of aromatic reactions involving arene compounds Surveys methods used for preparing arene compounds and their transformations Connects reactivity and methodology with mechanism Helps readers apply aromatic reactions in a practical context by designing syntheses Provides essential information about techniques used to determine reaction mechanisms

**Sustainable Nanosystems Development, Properties, and Applications** Putz, Mihai V., Mirica, Marius Constantin, 2016-08-01 Global economic demands and population surges have led to dwindling resources and problematic environmental issues As the climate and its natural resources continue to struggle it has become necessary to research and employ new forms of sustainable technology to help meet the growing demand Sustainable Nanosystems Development Properties and Applications features emergent research and theoretical concepts in the areas of nanotechnology photovoltaics electrochemistry and materials science as well as within the physical and environmental sciences Highlighting progressive approaches and utilization techniques this publication is a critical reference source for researchers engineers students scientists and academicians interested in the application of sustainable nanotechnology

**Advanced Catalysts Based on Metal-organic Frameworks (Part 1)** Junkuo Gao, Reza Abazari, 2023-01-31 Advanced Catalysts Based on Metal organic Frameworks is a comprehensive introduction to advanced catalysts based on MOFs It covers basic information about MOF catalysts with industrial and environmental applications It updates readers on current applications and strategies to apply MOF based catalysts in industrial processes geared for sustainability initiatives such as renewable energy pollution control and combating carbon emission Key Features 13 structured easy to read chapters that comprehensively cover MOF catalysts An introduction to basic information about MOF catalysts In depth coverage of advanced applications of MOF catalysts Explanation of MOF modifications and applications of derivative compounds In depth coverage of MOF catalysts used for electrocatalysis and photocatalysis Detailed explanation of environmental friendly and sustainable technologies biomass upgrading water purification CO<sub>2</sub> capture Updated references for advanced readers The is an essential reference for chemical engineers scientists in the manufacturing and sustainability industry and post graduate scholars working on MOFs and chemical catalysis

Photocatalysis: Fundamental Processes and Applications Mehrorang Ghaedi, 2021-03-19

Photocatalysis Fundamental Processes and Applications Volume 32 in the Interface Science and Technology Series discusses the fundamental aspects of photocatalysis and its process and applications to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon The book discusses the fundamental aspects of all applications together with their proper mechanisms thus providing essential information for deep research in the area of clean environment and green energy production Provides background on the fundamental and experimental processes of photocatalysis Covers photocatalysis and its impact on creating a clean environment and energy sources Applies photocatalysis to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon Edited by a world leading researcher in interface science Polyoxomolybdates as Green Catalysts for Aerobic Oxidation Anjali Patel, Soyeb Pathan, 2014-11-22 Heterogeneously catalyzed selective oxidations of alcohols is a highly topical field The first chapter of this brief describes the importance of the selective oxidation of alcohols and advantages of heterogeneous catalysts over conventional catalysts use of environmentally benign oxidants and the design of selective catalysts by tailoring of polyoxometalates at the molecular level Chapter 2 describes synthesis characterization 11 molybdophosphate based supported materials and their use as heterogeneous catalysts for oxidation of alcohols with molecular oxygen under solvent free mild reaction condition ZrO<sub>2</sub> Al<sub>2</sub>O<sub>3</sub> MCM 41 and zeolite H were used as supports Chapter 3 describes synthesis characterization of transition metals Mn Co Ni Cu substituted phosphomolybdates and their use as heterogeneous catalysts for oxidation of alcohols with molecular oxygen under solvent free mild reaction condition Chapter 4 describes conclusive remarks for present catalytic systems **March's Advanced Organic Chemistry** Michael B. Smith, 2025-07-23 Leading reference on the theories of organic chemistry now updated to reflect the most recent literature from 2018 to 2023 Building on the success of the 8th Edition as winner of the Textbook Academic Authors Association 2021 McGuffey Longevity Award the revised and updated 9th Edition of March's Advanced Organic Chemistry explains the theories of organic chemistry covers new advances in areas of organic chemistry published between 2018 and 2023 and guides readers to plan and execute multi step synthetic reactions Detailed examples and descriptions of all reactions are included throughout the text As in previous editions the goal of this edition is to give equal weight to three fundamental aspects of the study of organic chemistry reactions mechanisms and structure Specific but specialized areas of organic chemistry such as terpenes polymerization and steroids have been incorporated into primary sections rather than segregated into their own sections The first nine chapters cover general organic chemistry with theoretical principles The next 10 chapters address reactions and mechanistic discussion Appendix A focuses on literature references and resources More than 4 400 references are included throughout the text March's Advanced Organic Chemistry provides information on Localized and delocalized chemical bonding and bonding weaker than covalent Microwave chemistry use of ultrasound mechanochemistry and reactions done under flow conditions Acids and bases irradiation processes stereochemistry structure of intermediates and

ordinary and photochemical reactions Mechanisms and methods of determining carbocations carbanions free radicals carbenes and nitrenes Aliphatic alkenyl and alkynyl substitution additions to carbon carbon and carbon hetero bonds eliminations rearrangements and oxidations and reductions This 9th Edition of March s Advanced Organic Chemistry continues to serve as a must have reference for every student and professional working in organic chemistry or related fields

**Transition Metal Catalysis in Aerobic Alcohol Oxidation** Francesca Cardona, Camilla 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 *Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 36-40)* Karl M Kadish, Kevin M Smith, Roger Guilard, 2016-07-01 Porphyrins phthalocyanines and their numerous analogs and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come *Computational Insights into Catalytic Transformations* Maria Biosca, 2024-10-05 Computational Insights into Catalytic Transformations Volume 75 in the Advances in Catalysis series highlights new advances in the field with this new volume presenting interesting chapters on topics including Quantum Chemical Investigations on Electrophilic F CF<sub>3</sub> SCF<sub>3</sub> Transfer Hypervalent Iodine Reagents Combining DFT and experimental studies in enantioselective catalysis From rationalization to prediction Molecular Modelling of encapsulation and reactivity within metallocages On the role of computational chemistry in the design of artificial metalloenzymes and Computational Modelling of Catalytic Oxidation Reactions with H<sub>2</sub>O<sub>2</sub> promoted by transition metal substituted polyoxometalates Provides the authority and expertise of



leading contributors from an international board of authors Presents the latest release in Advances in Catalysis series  
Updated release includes the latest information in the field      **Ion Exchange and Solvent Extraction** Arup K.

Sengupta,2017-07-12 Since the Second World War the field of ion exchange has taken a dominant role in offering solutions to many problems in the developed and developing world It has evolved to a wide array of applications including mining microelectronics drug delivery and detection food fertilizers chemical cleaning catalysis bioseparation water management environmental research and practices and energy The six chapters in this book represent diverse contributions from researchers around the globe who are making noticeable strides in the field in currently important areas Brackish water desalination Removing boron from water Sustainable approaches for synthesizing commercially important epoxide building blocks Solid phase heavy metal separation Separating concentrated ion mixtures in sorption columns Sensing toxic metals Ion Exchange and Solvent Extraction A Series of Advances Volume 22 provides a focused review of new materials and new processes that have developed and are rapidly growing It describes cutting edge research and practices in the use of ion exchange for building a cleaner sustainable world and provides thoughtful insights on what ion exchange may do for us in the future      *Polyoxometalates in Catalysis, Biology, Energy and Materials Science* Soumyajit Roy,Debbie C. Crans,Tatjana N.

Parac-Vogt,2019-12-05      **Micro-Mesoporous Metallosilicates** Peng Wu,Hao Xu,2024-02-27 Micro Mesoporous Metallosilicates Up to date and in depth text bridging the technology gap between fundamental research and industry scale applications of porous materials for catalysis Micro Mesoporous Metallosilicates Synthesis Characterization and Catalytic Applications comprehensively introduces the chemistry and catalytic technologies of metallosilicates an important family of microporous crystalline zeolite and heteroatom containing mesoporous materials with a primary focus on design synthesis characterization theoretical studies and catalytic applications of titanosilicates tin silicates germanosilicates and Ti mesosilica and more The text covers recent advances in the synthesis of titanosilicates including hydrothermal synthesis dry gel conversion fluoride assisted synthesis and post synthesis methods along with the synthesis of metallosilicates with two dimensional lamellar structures and their structural modifications as well as applications in selective oxidation reactions The text also discusses synthesis of germanosilicates with specially designed organic structure directing agents synthesis and catalytic applications of heteroatom containing mesoporous silica and dendritic mesoporous silica nanoparticles with unique wrinkled center radial structures Overall every important porous metallosilicate and its synthesis characterization pore engineering catalytic application and industrial technique and process are covered Specific sample topics discussed in Micro Mesoporous Metallosilicates include Chemical post modifications of titanosilicates in terms of the effects on transfer adsorption desorption and surface reactions X Ray based techniques ultraviolet visible near infrared spectroscopy Raman spectroscopy and solid state NMR spectroscopy Theoretical calculation as an effective tool and supplement to understand the catalytic active center structural character and Br nsted Lewis acidity Titanosilicates in the liquid phase epoxidation reaction

of propylene and propylene chloride to corresponding epoxides Effects of particle sizes oxidation state and location sites of Au nanoparticles and epoxidation performance of Ti containing materials Delivering cutting edge research and bridging the technology gap between fundamental research and industrial applications Micro Mesoporous Metallosilicates is a valuable resource for chemists materials scientists chemical engineers and experienced researchers in related fields

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