

Catalysis
by
Metal
Complexes

*Oxygenates by
Homologation or
CO Hydrogenation
with Metal Complexes*

*Edited by
Giuseppe Braca*

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Oxygenates By Homologation Or Co Hydrogenation With Metal Complexes

**F. Albert Cotton, Geoffrey
Wilkinson, Carlos A. Murillo, Manfred
Bochmann**

Oxygenates By Homologation Or Co Hydrogenation With Metal Complexes:

Oxygenates by Homologation or CO Hydrogenation with Metal Complexes A. Braca, 1993-12-31 Born and initially developed in various industrial laboratories mainly in U S A and Germany homogeneous phase catalytic carbon monoxide hydrogenation and alcohols and their derivatives carbonylation and homologation have generally been considered and reviewed separately in the course of their 40 years history without concern for common aspects in the chemical transformations and in catalysis Thanks to researchers of Japanese companies participating in the National C 1 Chemistry Project 1980-1987 the scientific and technical approaches in this field have been unified and applied in parallel in the light of some common aspects of the chemical reactions and mechanisms Now at a moment when research seems to be reaching a general presentation and discussion of the most recent topics might be an useful basis for further development of this chemistry To delimit and simplify the discussion of the chemical aspects and the nature of the catalysts involved the present review is limited to reactions employing homogeneous metal complexes for the direct conversion of syngas to oxygenates and to the hydrocarbonylation of these last to homologous derivatives Since the previous practically contemporary reviews by Dombek in *Adv Organomet Chem* 1983 on CO hydrogenation and by the present authors in *Asp Homog Catal* Reidel Pu 1984 on alcohol homologation fully cover the literature up to 1982 here we mainly refer to work done after 1982 and consider the cited reviews as covering the historical development of research in the 1940-1980 period

Homogeneous Hydrogenation P.A. Chaloner, M.A. Esteruelas, Ferenc Joó, L.A. Oro, 2013-11-11 Homogeneous hydrogenation is one of the most thoroughly studied fields of homogeneous catalysis The results of these studies have proved to be most important for an understanding of the underlying principles of the activation of small molecules by transition metal complexes During the past three decades homogeneous hydrogenation has found widespread application in organic chemistry including the production of important pharmaceuticals especially where a sophisticated degree of selectivity is required This volume presents a general account of the main principles and applications of homogeneous hydrogenation by transition metal complexes Special attention is devoted to the mechanisms by which these processes occur and the role of the recently discovered complexes of molecular hydrogen is described Sources of hydrogen other than H₂ are also considered transfer hydrogenation The latest achievements in highly stereoselective hydrogenations have made possible many new applications in organic synthesis These applications are documented by giving details of the reduction of important unsaturated substrates alkenes alkynes aldehydes and ketones nitrocompounds etc Hydrogenation in biphasic and phase transfer catalyzed systems is also described Finally a discussion of the biochemical routes of H₂ activation highlights the similarities and differences in performing hydrogenation in both natural and synthetic systems For researchers working in the fields of homogeneous catalysis especially in areas such as pharmaceuticals plastics and fine chemicals

Metal-catalysis in Industrial Organic Processes Gian Paolo Chiusoli, Peter M Maitlis, 2019-04-05 Catalysis underpins most modern industrial organic processes It

has become an essential tool in creating a greener chemical industry by replacing more traditional stoichiometric reactions which have high energy consumption and high waste production with mild processes which increasingly resemble Nature's enzymes. Metal Catalysis in Industrial Organic Processes considers the major areas of the field and discusses the logic of using catalysis in industrial processes. The book provides information on oxidation, hydrogenation, carbonylation, C-C bond formation, metathesis, and polymerization processes, as well as on the mechanisms involved. In addition, two appendices offer a concise treatment of homogeneous and heterogeneous catalysis. Numerous exercises referring to problems of catalytic processes and research perspectives complete the book. This definitive reference source, written by practising experts in the field, provides detailed and up-to-date information on key aspects of metal catalysis.

Heterocycles from Transition Metal Catalysis András Kotschy, Géza Timári, 2005-12-28. Heterocycles from Transition Metal Catalysis: Formation and Functionalization provides a concise summary of the prominent role of late transition metal palladium, nickel, copper-catalysed processes in the synthesis and functionalization of heterocyclic systems. It gives an introduction to catalytic transformations, an overview of the most important reaction types, and presents synthetically useful catalytic processes classified by the target system and the type of transformation. The book provides a representative selection of transition metal-catalysed reactions and transformations that are relevant in heterocyclic chemistry. In this way, the authors present a useful resource for members of the academic community looking for a textbook, as well as industrial chemists in search of a reference book. This book will be an invaluable resource for synthetic chemists, medicinal chemists, and those more generally interested in applied catalysis.

Catalyst Separation, Recovery and Recycling David J. Cole-Hamilton, Robert P. Tooze, 2006-10-12. This book looks at new ways of tackling the problem of separating reaction products from homogeneous catalytic solutions. The new processes involve low-leaching supported catalysts, soluble supports such as polymers and dendrimers, and unusual solvents such as water, fluorinated organics, ionic liquids, and supercritical fluids. The advantages of the different possibilities are discussed alongside suggestions for further research that will be required for commercialisation. Unlike other books, in addition to the chemistry involved, the book looks at the process design that would be required to bring the new approaches to fruition. Comparisons are given with existing processes that have already been successfully applied, and examples are given where these approaches are not suitable. The book includes: New processes for the separation of products from solutions containing homogeneous catalysts; Catalysts on insoluble or soluble supports; Fixed-bed catalysts; Continuous flow or ultrafiltration; Biphasic systems: water-organic, fluorinated organic, ionic liquid-organic, supercritical fluids; Monophasic or biphasic with water-organic or ionic liquid; Comparisons with current processes involving atmospheric or low-temperature distillation; Consideration of Chemistry and Process Design; Advantages and disadvantages of each process; Exposed; Consideration of what else is needed for commercialisation.

Organometallic Modeling of the Hydrodesulfurization and Hydrodenitrogenation Reactions Robert A. Sánchez-Delgado, 2006-04-11. The fields of hydrodesulfurization (HDS) and

hydrodenitrogenation HDN continue to attract the attention of researchers in the various disciplines connected to these fascinating problems that represent two of the key outstanding chemical challenges for the petroleum refining industry in view of their very strong environmental and commercial implications One area that has flourished impressively over the last 15 years is the organometallic chemistry of thiophenes and other related sulfur containing molecules This has become a powerful method for modeling numerous surface species and reactions implicated in HDS schemes and nowadays it represents an attractive complement to the standard procedures of surface chemistry and heterogeneous catalysis for understanding the complex reaction mechanisms involved in this process Similar developments have begun to appear in connection with HDN mechanisms although in a much more modest scale and depth Some years ago when encouraged by Prof B R James this book was planned several excellent reviews and monographs treating different aspects of HDS were already available including some on the subject of organometallic models However it seemed appropriate to try to summarize the most striking features of this chemistry in an updated and systematic way and inasmuch as possible in connection with the common knowledge and beliefs of the mechanisms of heterogeneous HDS catalysis Hopefully this attempt to build some conceptual bridges between these two traditionally separated areas of chemistry has met with some success

Computational Modeling of Homogeneous Catalysis Feliu Maseras, Agustí Lledós, 2006-04-11 Recent results on a wide array of catalytic processes are collected in this volume The book illustrates the importance of computational modelling in homogeneous catalysis by providing up to date reviews of its application to a variety of reactions of industrial interest

Metalloporphyrins Catalyzed Oxidations F. Montanari, L. Casella, 2013-11-11 Oxidative catalysis by metalloporphyrin systems occupies a prominent role in the current research in the fields of chemical and biological catalysis Our particular interest and approach has been to collect in the same volume papers dealing with both the chemical and biological aspects of the reactivity of heme systems because of the realization that a better understanding of the complementary discipline can be extremely useful for the researchers from either field The current progress of the research on synthetic metalloporphyrin catalysts has led to the development of several systems that are able to reproduce the heme enzyme mediated oxygenation and oxidation reactions at least in terms of reaction types mechanisms and often rates These achievements have stimulated the of creating metalloporphyrin catalysts which are both ambitious project efficient and stable enough to become competitive for large scale industrial processes Although this project is still far from being realized the efforts in this direction parallel those aimed at the application of heme enzymes to chemical technologies e g for the mild selective oxidation of organics or the detoxification of pollutants Both the two approaches will be advantageous because while the enzyme systems can achieve selectivities which are probably unattainable by synthetic catalysts the latter can be active under experimental conditions that would readily inactivate the enzymes

Advanced Inorganic Chemistry F. Albert Cotton, Geoffrey Wilkinson, Carlos A. Murillo, Manfred Bochmann, 1999-04-13 For more than a quarter century Cotton and

Wilkinson's Advanced Inorganic Chemistry has been the source that students and professional chemists have turned to for the background needed to understand current research literature in inorganic chemistry and aspects of organometallic chemistry. Like its predecessors, this updated Sixth Edition is organized around the periodic table of elements and provides a systematic treatment of the chemistry of all chemical elements and their compounds. It incorporates important recent developments with an emphasis on advances in the interpretation of structure, bonding, and reactivity. From the reviews of the Fifth Edition: The first place to go when seeking general information about the chemistry of a particular element, especially when up-to-date authoritative information is desired. *Journal of the American Chemical Society*. Every student with a serious interest in inorganic chemistry should have this book. *Journal of Chemical Education*. A mine of information and an invaluable guide. *Nature*. The standard by which all other inorganic chemistry books are judged. *Nouveau Journal de Chimie*. A masterly overview of the chemistry of the elements. *The Times of London*. Higher Education Supplement. A bonanza of information on important results and developments which could otherwise easily be overlooked in the general deluge of publications. *Angewandte Chemie*. ***Activation of Small Molecules*** William B. Tolman, 2006-12-13. The first to combine both the bioinorganic and the organometallic view, this handbook provides all the necessary knowledge in one convenient volume. Alongside a look at CO₂ and N₂ reduction, the authors discuss O₂, NO, and N₂O binding and reduction, activation of H₂, and the oxidation catalysis of O₂. Edited by the highly renowned William Tolman, who has won several awards for his research in the field. ***Activation and Catalytic Reactions of Saturated Hydrocarbons in the Presence of Metal Complexes***

A.E. Shilov, Georgiy B. Shul'pin, 2006-04-11. Chemistry is the science about breaking and forming of bonds between atoms. One of the most important processes for organic chemistry is breaking bonds C-H as well as C-C in various compounds and primarily in hydrocarbons. Among hydrocarbons, saturated hydrocarbons (alkanes: methane, ethane, propane, hexane, etc.) are especially attractive as substrates for chemical transformations. This is because on the one hand, alkanes are the main constituents of oil and natural gas and consequently are the principal feedstocks for chemical industry. On the other hand, these substances are known to be the less reactive organic compounds. Saturated hydrocarbons may be called the noble gases of organic chemistry, and if so, the first representative of their family, methane, may be compared with extremely inert helium. As in all comparisons, this parallel between noble gases and alkanes is not fully accurate. Indeed, the transformations of alkanes, including methane, have been known for a long time. These reactions involve the interaction with molecular oxygen from air, burning, the main source of energy, as well as some mutual interconversions of saturated and unsaturated hydrocarbons. However, all these transformations occur at elevated temperatures higher than 300–500 °C and are usually characterized by a lack of selectivity. The conversion of alkanes into carbon dioxide and water during burning is an extremely valuable process, but not from a chemist's viewpoint. ***Catalytic Reductive Carbonylation of Organic Nitro Compounds***

S. Cenini, F. Ragaini, 2013-04-17. About eight years ago, the catalytic carbonylation of organic nitro compounds was a research

field developed enough to justify a rather long review on this subject Now we feel that the scientific results and new achievements in this field very important even from an industrial point of view require a book in order to be adequately presented The competition between the catalytic carbonylation of organic nitro compounds and other chemical routes for the synthesis of a variety of organic compounds has not yet come to an end but many progresses have been done in the former field We also like to emphasize that this type of research does not only involve relevant industrial problems to be solved but it opens a research field where the academic interests mechanism of the reactions isolation of the intermediates in the catalytic cycles synthesis of model compounds and so on can find a lot of opportunities

Theoretical Aspects of Homogeneous Catalysis Piet W.N.M. van Leeuwen, Keiji Morokuma, J.H. van Lenthe, 2012-12-06 This publication is the first to present the quantitative application of quantum chemistry to organometallic reactions Great progress has been made in recent years in the calculation of transition states of organometallic conversions in both homo and heterogeneous catalysis This volume which contains seven contributions by leading scientists deals with key reactions of homogeneous catalysis including oxidative addition migratory insertions 2 2 additions the Wacker reaction and epoxidation The book provides experimental chemists with an up to date overview of the state of the art in this field and will stimulate an adjustment of views previously based on semiempirical calculations For researchers and advanced graduate students whose work involves organometallics and catalysis

Aqueous Organometallic Catalysis Ferenc Joó, 2006-04-11 Over the past 20 years aqueous organometallic catalysis has found applications in small scale organic synthesis in the laboratory as well as in the industrial production of chemicals with a combined output close to one million tons per year Aqueous organic two phase reactions allow easy product catalyst separation and full catalyst recovery which mean clear benefits not only in economic but also in environmental and green chemistry contexts Instead of putting together a series of expert reviews of specialized fields this book attempts to give a comprehensive yet comprehensible description of the various catalytic transformations in aqueous systems as seen by an author who has been working on aqueous organometallic catalysis since its origin Emphasis is put on the discussion of differences between related non aqueous and aqueous processes due to the presence of water The book will be of interest to experts and students working in catalysis inorganic chemistry or organic synthesis and may serve as a basis for advanced courses

Rhodium Catalyzed Hydroformylation Piet W.N.M. van Leeuwen, Carmen Claver, 2006-04-11 In the last decade there have been numerous advances in the area of rhodium catalyzed hydroformylation such as highly selective catalysts of industrial importance new insights into mechanisms of the reaction very selective asymmetric catalysts in situ characterization and application to organic synthesis The views on hydroformylation which still prevail in the current textbooks have become obsolete in several respects Therefore it was felt timely to collect these advances in a book The book contains a series of chapters discussing several rhodium systems arranged according to ligand type including asymmetric ligands a chapter on applications in organic chemistry a chapter on modern processes and separations and a chapter on

catalyst preparation and laboratory techniques This book concentrates on highlights rather than a concise review mentioning all articles in just one line The book aims at an audience of advanced students experts in the field and scientists from related fields The didactic approach also makes it useful as a guide for an advanced course Introduction to Green Chemistry Albert Matlack, 2010-04-05 The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society Copiously illustrated with over 800 figures this second edition provides an update from the frontiers of the field *Introduction to Green Chemistry* John Andraos, Albert S. Matlack, 2022-03-10 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluororous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry

NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale

UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth

The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society *Natural Gas Conversion* V A. Parmaliana, D. Sanfilippo, F. Frusteri, A. Vaccari, F. Arena, 1998-09-17 On January 1988 the ascertained and economically accessible reserves of Natural Gas NG amounted to over 144 000 billion cubic meters worldwide corresponding to 124 billion tons of oil equivalents comparable with the liquid oil reserves which are estimated to be 138 billion TOE It is hypothesized that the volume of NG reserve will continue to grow at the same rate of the last decade Forecasts on production indicate a potential increase from about 2 000 billion cubic meters in 1990 to not more

than 3 300 billion cubic meters in 2010 even in a high economic development scenario NG consumption represents only one half of oil 1 9 billion TOE y as compared to 3 5 of oil Consequently in the future gas will exceed oil as a carbon atom source In the future the potential for getting energetic vectors or petrochemicals from NG will continue to grow The topics covered in Natural Gas Conversion V reflect the large global R D effort to look for new and economic ways of NG exploitation These range from the direct conversion of methane and light paraffins to the indirect conversion through synthesis gas to fuels and chemicals Particularly underlined and visible are the technologies already commercially viable These proceedings prove that mature and technologically feasible processes for natural gas conversion are already available and that new and improved catalytic approaches are currently developing the validity and feasibility of which will soon be documented This is an exciting area of modern catalysis which will certainly open novel and rewarding perspectives for the chemical energy and petrochemical industries

Applied Homogeneous Catalysis Arno Behr, Peter Neubert, 2012-04-16 Auf fortgeschrittenem Niveau und mit didaktischem Anspruch bietet Ihnen dieser Band zahlreiche Fragen mit Antworten und eine breite Palette von Fallstudien aus der Industrie erg nzt durch weiterf hrende Literaturhinweise und Referenzen der Originalliteratur Insbesondere geht es um die modernsten katalytischen Prozesse mit ihren Anwendungen in der Pharmazie und der Feinchemikalien Industrie wobei auch kommerzielle Aspekte besprochen werden Der Autor ein erfahrener Dozent mit Industriepraxis legt Chemikern und Chemieingenieuren damit ein praxistaugliches Hilfsmittel vor

Advances in Catalytic Activation of Dioxygen by Metal Complexes László I. Simándi, 2006-04-11 The subject of dioxygen activation and homogeneous catalytic oxidation by metal complexes has been in the focus of attention over the last 20 years The widespread interest is illustrated by its recurring presence among the sessions and subject areas of important international conferences on various aspects of bioinorganic and coordination chemistry as well as catalysis The most prominent examples are ICCG ICBIC EUROBIC ISHC and of course the ADHOC series of meetings focusing on the subject itself Similarly the number of original and review papers devoted to various aspects of dioxygen activation are on the rise This trend is due obviously to the relevance of catalytic oxidation to biological processes such as dioxygen transport and the action of oxygenase and oxidase enzymes related to metabolism The structural and functional modeling of metalloenzymes particularly of those containing iron and copper by means of low molecular complexes of iron copper ruthenium cobalt manganese etc have provided a wealth of indirect information helping to understand how the active centers of metalloenzymes may operate The knowledge gained from the study of metalloenzyme models is also applicable in the design of transition metal complexes as catalysts for specific reactions This approach has come to be known as biomimetic or bioinspired catalysis and continues to be a fruitful and expanding area of research

Oxygenates By Homologation Or Co Hydrogenation With Metal Complexes Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Oxygenates By Homologation Or Co Hydrogenation With Metal Complexes**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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