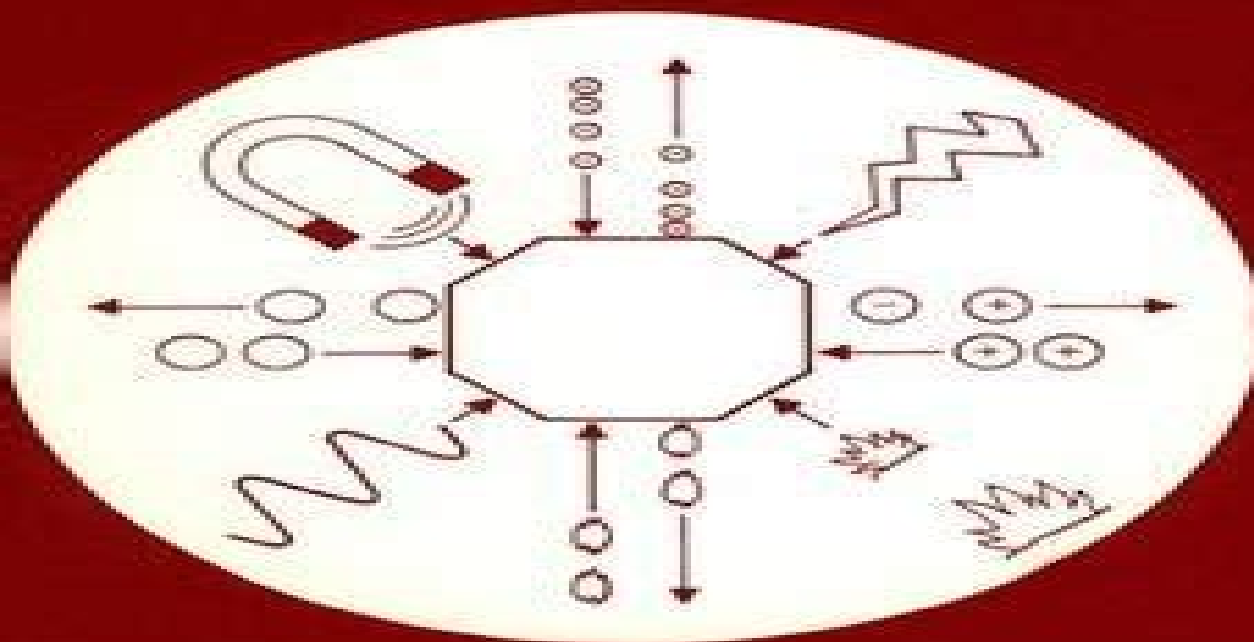


studies in surface science and catalysis



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HETEROGENEOUS CATALYSIS AND FINE CHEMICALS II

M. Guisnet, J. Barrault, C. Bouchoule,
D. Duprez, G. Pérot, R. Maurel
and C. Montassier
(editors)

elsevier

Heterogeneous Catalysis And Fine Chemicals Ii Studies In Surface Science And Catalysis

Michael Seilmaier



Heterogeneous Catalysis And Fine Chemicals Ii Studies In Surface Science And Catalysis:

Heterogeneous Catalysis and Fine Chemicals II M. Guisnet, J. Barrault, C. Bouchoule, D. Duprez, G. Pérot, R. Maurel, C. Montassier, 1991-04-19 The recession in the traditional heavy industries along with the development of advanced technologies in all the industrial countries has meant that the impact of heterogeneous catalysis in the synthesis of fine chemicals is becoming increasingly noticeable The second International Symposium on Heterogeneous Catalysis and Fine Chemicals is to be seen in this perspective Organised by the Laboratory of Catalysis in Organic Chemistry of the University of Poitiers within the framework of the International Symposia of the Centre National de la Recherche Scientifique CNRS the symposium provided an opportunity for contact between academic researchers and manufacturers users or potential users of solid catalysts for fine chemical synthesis The book gives an overall view of the problems encountered by academic and industrial researchers A large variety of reactions are described the emphasis being on selectivity chemo regio stereoselectivity even enantioselectivity and on the change of these selectivities as a function of the characteristics of the surface sites nature distribution etc The three themes of the symposium hydrogenation oxidation and acid base catalysis were introduced in four plenary lectures and two invited communications maintaining a balance between the industrial and the academic points of view Some 60 research papers selected by the Scientific Committee were presented All are reproduced in full in this proceedings volume

Heterogeneous Catalysis and Fine Chemicals II M. Guisnet, 1991-01-01 The recession in the traditional heavy industries along with the development of advanced technologies in all the industrial countries has meant that the impact of heterogeneous catalysis in the synthesis of fine chemicals is becoming increasingly noticeable The second International Symposium on Heterogeneous Catalysis and Fine Chemicals is to be seen in this perspective Organised by the Laboratory of Catalysis in Organic Chemistry of the University of Poitiers within the framework of the International Symposia of the Centre National de la Recherche Scientifique CNRS the symposium provided an opportunity for contact between academic researchers and manufacturers users or potential users of solid catalysts for fine chemical synthesis The book gives an overall view of the problems encountered by academic and industrial researchers A large variety of reactions are described the emphasis being on selectivity chemo regio stereoselectivity even enantioselectivity and on the change of these selectivities as a function of the characteristics of the surface sites nature distribution etc The three themes of the symposium hydrogenation oxidation and acid base catalysis were introduced in four plenary lectures and two invited communications maintaining a balance between the industrial and the academic points of view Some 60 research papers selected by the Scientific Committee were presented All are reproduced in full in this proceedings volume

Heterogeneous Catalysis and Fine Chemicals III J. Barbier, J. Barrault, C. Bouchoule, D. Duprez, C. Montassier, M. Guisnet, G. Pérot, 1993-09-09 Heterogeneous catalysis plays a major role in the organic synthesis of specialty and fine chemicals However as the interaction between surface sites and functional groups is complex more investigations

are necessary into the effects of catalysts on the reaction mechanisms The Third International Symposium on Heterogeneous Catalysis and Fine Chemicals provided an opportunity for discussions on the basic and practical aspects of this subject between researchers manufacturers and users of solid catalysts for synthesis of fine chemicals The present volume comprises the invited plenary lectures and research papers classified under the three main headings hydrogenation oxidation and acid catalysis All papers were refereed A large variety of reactions are described the emphasis being on selectivity taking into account all aspects chemo regio and stereoselectivity including enantioselectivity and on the change of these selectivities as a function of the characteristics of the catalysts and operating conditions Heterogeneous Catalysis and Fine Chemicals IV

H.U. Blaser,A. Baiker,R. Prins,1997-06-19 After three meetings in Poitiers France the 4th International Symposium on Heterogeneous Catalysis and Fine Chemicals was held under the auspices of the New Swiss Chemical Society in Basel Switzerland Fundamental as well as applied contributions on the use of heterogeneous catalysis for the preparation of fine chemicals were presented and discussed The program consisted of 4 plenary lectures 28 oral contributions and around 90 posters covering a broad range of reactions and catalytic aspects 82 of these contributions are collected in the present proceedings grouped into the following 8 topical areas Industrial and engineering problems 7 contributions Alkylation and acylation reactions 11 contributions Enantio and diastereoselective hydrogenation reactions 9 contributions Chemoselective hydrogenation reactions 12 contributions Oxidation reactions 14 contributions Immobilized and encapsulated complex catalysts 12 contributions Zeolite and clay catalysts 12 contributions Miscellaneous topics 5 contributions **Catalysis by Microporous Materials** H.K. Beyer,J.B. Nagy,H.G. Karge,I. Kiricsi,1995-05-19 ZEOCAT 95 is the eleventh in the series of symposia devoted to special fields of zeolite chemistry Six plenary lectures forty oral and forty two poster presentations were included in the program The accepted papers cover every aspect of catalysis on microporous materials A significant number of the contributions describe the synthesis modification instrumental and chemical characterisation of zeolites and other micro and mesoporous materials Catalytic reactions involve hydrocarbon cracking nucleophilic aromatic substitution methanol to hydrocarbon conversion hydration of acetylene various alkylation reactions redox transformations Claisen rearrangement etc Heterogeneous Catalysis and Fine Chemicals III; Studies in Surface Science and Catalysis ,1993

Preparation of Solid Catalysts Gerhard Ertl,Helmut Knözinger,Jens Weitkamp,2008-08-29 Solid catalysts play a fundamental role in all areas between basic research and industrial applications This book offers a large amount of information about the preparation of solid catalysts All types of solid catalysts and all important aspects of their preparation are discussed The highly topical contributions are written by leading experts in disciplines ranging from solid state interface and solution chemistry to industrial engineering The straightforward presentation of the material and the comprehensive coverage make this book an essential and indispensable tool for every scientist and engineer working with solid catalysts

Proceedings from the Ninth International Zeolite Conference R. Von Ballmoos,2013-10-02 Proceedings from the

Ninth International Zeolite Conference Volume I contains the proceedings of the Ninth International Zeolite Conference held in Montreal Canada on July 5 10 1992 The conference provided a forum for reviewing the state of the art in zeolites and tackled topics ranging from advances and perspectives in the synthesis of molecular sieves to Raman spectroscopic studies in zeolite synthesis The insertion of vanadium in the silicalite framework and the crystallization of aluminophosphate microporous compounds in an alcoholic system are also discussed Comprised of 71 chapters this volume first deals with the discovery of a subclass of tectosilicate minerals now known as zeolites followed by a detailed account of host guest chemistry and catalysis in zeolites The reader is then introduced to sodalite supralattices and a high silica large pore aluminosilicate zeolite dubbed NCL 1 Subsequent chapters explore zeolite synthesis in ammonia and aqueous ammonia solvents preparation of zeolite film using cellulose molding molecular design of layered zirconium phosphonate catalysts and the effect of hydrogen bonds on the aluminosilicate framework of ammonium natrolite This book will appeal not only to experts but also to students and researchers entering the field of zeolites

12th International Congress on Catalysis A. Corma, F.V. Melo, S. Mendioroz, J.L.G. Fierro, 2000-07-05 The twelfth Congress on Catalysis was held in Granada Spain under the auspices of the International Association of Catalysis Societies and the Spanish Society of Catalysis These four volume Proceedings are the expression of the Scientific Sessions which constituted the main body of the Congress They include 5 plenary lectures 1 award lecture 8 keynote lectures 124 oral presentations and 495 posters The oral and poster contributions have been selected on the basis of the reports of at least two international reviewers according to standards comparable to those used for specialised journals

Handbook of Heterogeneous Catalysis, 5 Volume Set Gerhard Ertl, Helmut Knözinger, Jens Weitkamp, 1997-05-15 The first comprehensive survey of the principles and applications of heterogeneous catalysis Starting with the invention of Haber's tinder box and reaching importance with Haber's development of ammonia synthesis heterogeneous catalysis has become a multi billion dollar business Simultaneously literature on heterogeneous catalysis has become increasingly widespread and difficult to follow This handbook collects the available knowledge on heterogeneous catalysis and provides the reader with easy to find yet comprehensive information With contributions from more than 200 leading experts from all over the world it covers all aspects of the subject from physico chemical foundations to large scale industrial applications With its highly topical contributions the straightforward presentation of the material and its comprehensive coverage this handbook sets new standards Saving you the time for laborious searches for information it is an indispensable tool for every scientist working in heterogeneous catalysis

Fine Chemicals through Heterogeneous Catalysis R. A. Sheldon, Herman van Bekkum, 2008-07-11 Nowadays the chemical industry is under increased pressure to develop cleaner production processes and technologies Much effort is devoted to the development of heterogeneous catalysts and their application in industrial scale organic synthesis This handbook concentrates on current attempts focusing on fine chemical production With contributions from an impressive array of international experts this is essential reading for

everyone interested in the advances in this field Introduction to Zeolite Science and Practice P.A. Jacobs,E.M. Flanigen,J.C. Jansen,Herman van 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 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 and Jim Vartuli The latter two authors belong to the discoverers of the M41S family of mesoporous materials **Bimodal Oxidation** Robert Bakhtchadjian,2019-11-15 This book is devoted to the problems of oxidation chemical reactions and addresses bimodal reaction sequences Chemical reactions of oxidation occurring under certain conditions and in multicomponent systems are complex processes The process of the oxidation essentially changes in the presence and contact of the solid substances with reactants The role of solid substances and the appearance of this phenomenon in oxidation reaction are discussed The reader will understand the driving forces of this phenomenon and apply it in practice Written for chemists physicists biologists and engineers working in the domain of oxidation reactions Key Selling Features Covers the historical background modern state of the art and perspectives in investigations of the coupling between heterogeneous and homogeneous reactions Discusses the feasible pathways of the coupling of heterogeneous and homogeneous reactions in oxidation in man made and natural chemical systems Addresses the abundance peculiarities and mechanisms of the bimodal reaction sequences in oxidation with dioxygen in recent decades Discusses the existence of the bimodal reaction sequences in chemical systems investigations in atmospheric chemistry and heterogeneous photocatalysis Presented in a simple concise style accessible for both specialists and non specialists Solid Base Catalysts K. K. Pant,Ramesh Chandra,Ravi Tomar,2025-02-03 Foundational knowledge and practical approaches of an interesting catalyst class for greener and cleaner chemical synthesis Solid Base Catalysts provides insights and information on cutting edge heterogeneous catalysis technologies and approaches of non corrosive and easy to use solid catalysts that can replace conventional liquid catalysts that are known to pose operational problems Edited by three highly qualified authors with contributions from experts in industry and academia Solid Base Catalysts includes Latest and most advanced studies in the characterization of solid catalysts with applications in various organic transformations Versatile reaction types where solid catalysts can be used as well as the multidisciplinary

nature of solid base catalyst research and its connections to other fields Multicomponent reactions for eco compatible heterocyclic synthesis over solid catalysts and synthesis routes experimental protocols and other considerations for optimizing catalyst properties Advanced methodologies and applications for analyzing solid catalysts and challenges and future prospects in the field Solid Base Catalysts is a complete reference on the subject for researchers and professionals in materials science green chemistry surface chemistry and chemical engineering *Hydrocarbon Chemistry* George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-09-08 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists Angewandte Chemie and useful for chemical engineers as well as engineers in the chemical and petrochemical industries Petroleum Science and Technology Fluid Catalytic Cracking VII: , 2011-09-22 Since 1987 the Petroleum Division of the American Chemical Society ACS has sponsored at 3 year intervals an international symposium on fluid cracking catalysts FCC technology This volume collects the recent progress of this technology as reported in the papers presented during the 232th National Meeting of the ACS in San Francisco September 10 14 2006 Sixty six years after the introduction of the fluid cracking catalyst process it remains the main process of gasoline generation for the estimated 237 millions cars on US roads Catalysts testing and evaluation still remains a subject of interest debate and controversy Lambda sweep testing testing of SO_x NO_x and combustion promoters have been discussed in details together with catalyst evaluation for atmospheric residues and metal contaminated oils cracking Of particular interest has been the introduction of novel concept in process design aimed at improving cracked product selectivity such as two stage risers for better gasoline and olefins production and downer technology for high severity processes The importance of solid state nuclear magnetic resonance NMR in the study of crude oils catalysts and reaction products are illustrated by several examples Two contributions describe the use of predictive methods to understand FCC aging and deactivation and personal overviews of the development of SO_x and combustion promoters technology are presented Presents findings from the tri annual international symposium on fluid cracking catalysts FCC technology sponsored by the Petroleum Division of the American Chemical Society ACS Two contributions describe the use of predictive methods to understand FCC aging and deactivation Personal overviews by the authors of the development of SO_x and combustion promoters technology Natural Gas Conversion VIII Fabio Bellot Noronha, Martin Schmal, Eduardo Falabella Sousa-Aguiar, 2011-09-22 This volume contains peer reviewed manuscripts describing the scientific and technological

advances presented at the 8th Natural gas Conversion Symposium held in Natal Brazil May 27 31 2007 This symposium continues the tradition of excellence and the status as the premier technical meeting in this area established by previous meetings The manuscripts have been divided into eight different topics Industrial Processes Economics Technology Demonstration and Commercial Activities Production of Hydrogen from Methane Methanol and Other Sources Production of Synthesis Fischer Tropsch Synthesis of Hydrocarbons From Synthesis Gas to Catalytic Combustion From Natural Gas to Chemicals Light Hydrocarbons and Production and Conversion These are the most interesting subjects in the utilization of natural gas with recent scientific innovation and technological advances The book is of interest to all students and researchers active in utilization of natural gas Research comes from the most important industries and research centres in the field Features new studies from all around the world Important for consulting and updating research and development data

Catalytic Asymmetric Friedel-Crafts Alkylations Marco Bandini, Achille Umani-Ronchi, 2009-06-10 This first comprehensive overview of this important synthetic reaction covers the whole spectrum of this modern and rapidly developing field Clearly structured the book presents all the known synthetic approaches for the construction of aromatic compounds bearing benzylic stereocenters with a defined configuration With its representative synthetic procedures organocatalysis and industrial applications it combines a theoretical basis with practical examples resulting in valuable advice for beginners and experts alike The ultimate source for every synthetic chemist in academia and industry

Chemistry for Sustainable Technologies Neil Winterton, 2021-02-04 Following the success of the first edition this fully updated and revised book continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology Its prime objective is to equip young chemists and others to more fully to appreciate defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control manage and ameliorate its impact on the ecosphere To do this it is necessary to set the ideas concepts achievements and challenges of chemistry and its application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists

Poisoning and Promotion in Catalysis based on Surface Science Concepts and Experiments M.P. Kiskinova, 1991-11-29 The topics covered in this book include a variety of adsorption and model reaction studies on

clean and modified single crystal metal surfaces obtained by means of properly selected surface sensitive techniques The accent is on the revelation of the physics and chemistry involved in the effects of various modifiers on the adsorptive and reactivity properties of the surface with respect to different reactants In this book current information that contributes to the fundamental understanding of the effect of additives is summarized Some of the additives act as promoters others as poisons in a number of important catalytic reactions A description of single and double component systems has been obtained by using surface sensitive techniques particularly suited for this purpose For the benefit of the reader a short summary of the main surface science techniques has been given in Chapter 2 Three general and interrelated topics are reviewed The first concerns the interaction of electronegative Cl S Se C N O P and electropositive alkali metals atoms with metal surfaces Chapter 4 The second topic covers the chemisorptive properties of metal surfaces modified by varying amounts of additives with respect to different reactants CO NO N₂ O₂ H₂ CO₂ NH₃ H₂O and hydrocarbons Chapters 5 and 6 In particular the adsorption kinetics and energetics and the electronic structural and reactive properties of the coadsorbate systems are considered whereby particular attention is given to recent surface science studies with well characterized single crystal metal surfaces In these chapters special attention is paid to showing the contribution of different factors the nature and adsorption state of the modifier and the coadsorbed molecule the structure of the adsorbed layer the type of interactions in the mixed overlayers etc to the modifier effects In the discussion of the third topic model studies of several important catalytic reactions Fischer Tropsch synthesis ammonia synthesis CO oxidation water gas shift synthesis on modified metal surfaces Chapter 8 are considered The book will be particularly useful to scientists who are interested in adsorption phenomena surface properties and catalysis It should also prove invaluable to those addressing the questions of condensed matter surfaces and interfaces materials science e g corrosion of metals and electrochemistry

Reviewing **Heterogeneous Catalysis And Fine Chemicals Ii Studies In Surface Science And Catalysis**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Heterogeneous Catalysis And Fine Chemicals Ii Studies In Surface Science And Catalysis**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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