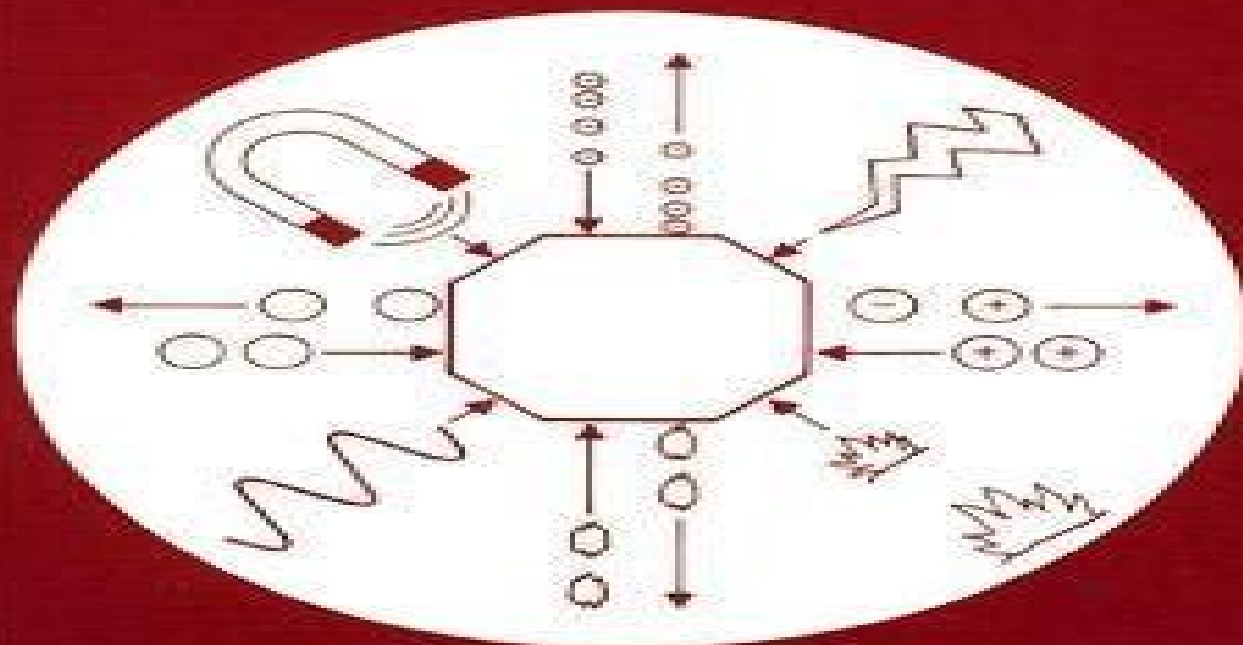


studies in surface science and catalysis



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ADVANCED ZEOLITE SCIENCE AND APPLICATIONS

**J.C. Jansen, M. Stöcker,
H.G. Karge and J. Weitkamp
(editors)**

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Advanced Zeolite Science And Applications Volume 85 Studies In Surface Science And Catalysis

**Ferdi Schüth, K. S. W. Sing, Jens
Weitkamp**



Advanced Zeolite Science And Applications Volume 85 Studies In Surface Science And Catalysis:

Advanced Zeolite Science and Applications Michael Stöcker, H.G. Karge, J.C. Jansen, J. Weitkamp, 1994-07-19 Zeolites and related microporous materials are used in oil processing and in the fine and petrochemical industries on a large scale New applications of zeolites contribute to environmentally friendly processes and refined zeolites such as catalytic zeolite membranes and zeolites containing exhaust pipe reactors are being introduced Recent diversity in zeolite research has been fueled by the increase in number of microporous materials and the combination with interfacing science areas The possibility to accommodate ions large molecules or nanostructures in the crystalline matrix has been explored and the performance of electronic acoustic and photonic modified response of the materials has been tested This volume provides up to date information on new zeolite and related materials and composites their applications testing of new processes and techniques and promising laboratory results as well A vast amount of work from a fundamental aspect is incorporated In particular the combination of science and application offers useful information for readers interested in molecular sieves Handbook of Zeolite Science and Technology Scott M. Auerbach, Kathleen A. Carrado, Prabir K. Dutta, 2003-07-31 The Handbook of Zeolite Science and Technology offers effective analyses of salient cases selected expressly for their relevance to current and prospective research Presenting the principal theoretical and experimental underpinnings of zeolites this international effort is at once complete and forward looking combining fundamental Zeolites and Ordered Mesoporous Materials: Progress and Prospects Jiri Cejka, 2005-08-09 Zeolites are the most frequently used industrial catalysts Their applications range from oil refining petrochemistry and the synthesis of special chemicals to environmental catalysis Rapid progress in basic research and the development of new processes has resulted in the first Federation of European Zeolite Associations FEZA School on Zeolites Zeolites and Ordered Mesoporous Materials Progress and Prospects reflects the programme of the first School on Zeolites held in Prague on August 20 21 2005 Readers gain insight into the synthesis of the ever expanding spectrum of zeolites zeotypes and ordered mesoporous materials including the use of zeolites and mesoporous materials as catalysts in organic conversions These range from the fascinating ship in bottle systems via cascade reactions to bulk applications in oil refining and petrochemistry Contributions from world experts enhance the book with select chapters on trends in the molecular sieves field zeolite structures ion exchange properties of zeolites advanced applications with unique technologies and opportunities and a chapter on natural zeolites Contains contributions from world experts in the field Includes an account of the frontier topic of high throughput techniques Reviews the application of quantum chemical methods to zeolite science to show the necessity of combining experimental and theoretical approaches 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

Molecular Sieves
 Rosemarie Szostak, 1998 The porous structure of molecular sieves combined with their chemical composition makes them uniquely suitable for use as catalysts or catalytic supports As such the materials are used in a wide range of chemical reactions and as components of formulated products The shape selectivity of the materials further enhances their chemical usefulness and exploitation of their unique absorption properties holds the key to improving their catalytic properties To that end great efforts are being made to find new of different molecular sieves with altered or tailored structures or chemical composition The synthesis and characterisation of molecular sieve materials is a considerable challenge testing both the chemist's understanding and practical skills In a thorough overhaul of the very successful first edition of this book the author guides the reader in the basics of sieve structure synthesis and characterisation and points the way to the development of new or improved sieve materials By covering both the principles and practical aspects of sieve synthesis and characterisation professional chemists particularly those involved in industrial research and development will find this book an essential guide to the current state of the art and a useful starting point in their own research Academic chemists including postgraduate students will find this book an invaluable guide to this exciting and important area of chemistry

Catalysis and Zeolites
 Jens Weitkamp, Lothar Puppe, 1999-06 Zeolites and zeolite like microporous materials have been playing an ever increasing role in heterogeneous catalysis for more than three decades An impressive number of large scale industrial processes in petroleum refining petrochemistry and the manufacture of organic chemicals are nowadays carried out using zeolite catalysts and the future of zeolites in industrial catalysis continues to be bright Authored by an international team of renowned scientists the seven chapters of this book present a comprehensive overview of the application of zeolites in industrial catalysis while also providing a true scientific understanding of how zeolites are synthesized modified and characterized and putting special emphasis on shape selective catalysis which is a unique feature of zeolites

Handbook of Porous Solids
 Ferdi Schüth, K. S. W. Sing, Jens Weitkamp, 2002

Host-Guest-Systems Based on Nanoporous Crystals Franco Laeri, Ferdi Schüth, Ulrich Simon, Michael Wark, 2006-03-06 Interest in nanoporous crystals as host guest systems has risen dramatically over the past few years such that this fascinating class of substances now plays an important role not only in material sciences but also in numerous other disciplines such as organic or supramolecular chemistry With their unique characteristics nanoporous crystals offer a wide range of possible applications They are used as molecular sieves or membranes as well as catalytic converters This work presents the very first overview of this exciting field Readers will find everything they need to know about these unusual materials with all their many attributes Synthesis of host guest systems Description of the structural and dynamic aspects Electronic and optical characteristics of the materials Possible applications

An indispensable reference for materials scientists as well as for catalytic and inorganic chemists and all those working in the field

Zeolite Characterization and Catalysis Arthur W. Chester, E.G. Derouane, 2009-10-03 The idea for putting together a tutorial on zeolites came originally from my co editor Eric Derouane about 5 years ago I first met Eric in the mid 1980s when he spent 2 years working for Mobil R D at our then Corporate lab at Princeton NJ He was on the senior technical staff with projects in the synthesis and characterization of new materials At that time I managed a group at our Paulsboro lab that was responsible for catalyst characterization in support of our catalyst and process development efforts and also had a substantial group working on new material synthesis Hence our interests overlapped considerably and we met regularly After Eric moved back to Namur initially we maintained contact and in the 1990s we met a number of times in Europe on projects of joint interest It was after I retired from ExxonMobil in 2002 that we began to discuss the tutorial concept seriously Eric had semi retired and lived on the Algarve the southern coast of Portugal In January 2003 my wife and I spent 3 weeks outside of Lagos and I worked parts of most days with Eric on the proposed content of the book We decided on a comprehensive approach that ultimately amounted to some 20 chapters covering all of zeolite chemistry and catalysis and gave it the title *Zeolite Chemistry and Catalysis An integrated Approach and Tutorial*

Structured Catalysts and Reactors Andrzej Cybulski, Jacob A. Moulijn, 2005-11-02 Interest in structured catalysts is steadily increasing due to the already proven as well as potential advantages of these catalysts Updating the comprehensive coverage of the first edition published in 1998 with the latest science and applications *Structured Catalysts and Reactors Second Edition* gives detailed information on all aspects of structured catalysts and reactors including materials mass transfer selectivity activity and stability catalyst preparation design and characterization process development modeling and optimization reactor design and operation costs and considerations The book first examines how monolithic catalysts are used to clean exhaust gas from gasoline engines treat industrial off gases burn fuels in commercial settings and synthesize chemicals in two and three phase processes It discusses configurations microstructure physical properties and manufacture of ceramic and metallic monoliths before directing its focus to arranged catalysts and structured packings in terms of mass transfer The book then explores catalytically active membranes and filters featuring metallic membranes permeation mechanisms preparation and modeling commercial membranes and the latest applications such as zeolitic membranes Finally several chapters present techniques for incorporating catalytic species into the structured catalyst support and controlling catalyst nanoporosity This book conveys the scientific as well as economic advantages of using these unconventional catalytic techniques With over 1500 references tables drawings and photographs as well as in depth discussions and a new approach to catalytic processes *Structured Catalysts and Reactors Second Edition* is an essential reference for anyone working with or studying catalysis

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

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

From Zeolites to Porous MOF Materials - the 40th Anniversary of International Zeolite Conference, 2 Vol Set Ruren Xu, Jiesheng Chen, Zi Gao, Wenfu Yan, 2007-07-12 The Proceedings of the 15th International Zeolite Conference contain 291 full papers including the full papers of 5 plenary lecture 12 keynote lectures and 4 invited lectures at the R M Barrer Symposium The topics of these full papers include synthesis modifications structures characterization adsorption separation and diffusion catalysis host guest chemistry and advanced materials industrial applications theory and modeling mesostructured materials MOF materials and natural zeolites The other 271 full papers were selected from the about 1000 contributions submitted to the 15th IZC Most recent research results in zeolite science Full indexes Wide coverage of zeolite science and technology

Silicon Biomineralization Werner E. G. Müller, 2012-12-06 During evolution silica deposition has been used in Protozoa Metazoa and in plants as skeletal elements It

appears that the mechanisms for the formation of biogenic silica have evolved independently in these three taxa In Protozoa and plants biosilicification appears to be primarily driven by non enzymatic processes and proceeds on organic matrices In contrast in sponges phylum Porifera this process is mediated by enzymes the initiation of this process is likewise dependent on organic matrices In this monograph the role of biosilica as stabilizing structures in different organisms is reviewed and their role for morphogenetic processes is outlined It provides an up to date summary of the mechanisms by which polymeric biosilica is formed The volume is intended for biologists biochemists and molecular biologists involved in the understanding of structure formation in living organisms and will also be very useful for scientists working in the field of applied

Nanotechnology and Nanobiotechnology Advances in Photochemistry Douglas C. Neckers, Günther von Büнау, William S. Jenks, 2003-03-31 More than a simple survey of the current literature *Advances in Photochemistry* offers critical evaluations written by internationally recognized experts These pioneering scientists offer unique and varied points of view of the existing data Their articles are challenging as well as provocative and are intended to stimulate discussion promote further research and encourage new developments in the field *Ion Exchange in Environmental Processes* Arup K.

SenGupta, 2017-08-10 Provides a comprehensive introduction to ion exchange for beginners and in depth coverage of the latest advances for those already in the field As environmental and energy related regulations have grown ion exchange has assumed a dominant role in offering solutions to many concurrent problems both in the developed and the developing world Written by an internationally acknowledged leader in ion exchange research and innovation *Ion Exchange in Environmental Processes* is both a comprehensive introduction to the science behind ion exchange and an expert assessment of the latest ion exchange technologies Its purpose is to provide a valuable reference and learning tool for virtually anyone working in ion exchange or interested in becoming involved in that incredibly fertile field Written for beginners as well as those already working in the field Dr SenGupta provides stepwise coverage advancing from ion exchange fundamentals to trace ion exchange through the emerging area of hybrid ion exchange nanotechnology or polymeric inorganic ion exchangers Other topics covered include ion exchange kinetics sorption and desorption of metals and ligands solid phase and gas phase ion exchange and more Connects state of the art innovations in such a way as to help researchers and process scientists get a clear picture of how ion exchange fundamentals can lead to new applications Covers the design of selective or smart ion exchangers for targeted applications an area of increasing importance including solid and gas phase ion exchange processes Provides in depth discussion on intraparticle diffusion controlled kinetics for selective ion exchange Features a chapter devoted to exciting developments in the areas of hybrid ion exchange nanotechnology or polymeric inorganic ion exchangers Written for those just entering the field of ion exchange as well as those involved in developing the next big thing in ion exchange systems *Ion Exchange in Environmental Processes* is a valuable resource for students process engineers and chemists working in an array of industries including mining microelectronics pharmaceuticals energy and wastewater

treatment to name just a few *Proceedings of the Third International Symposium on Quantum Confinement* ,1996

Recent Advances in the Science and Technology of Zeolites and Related Materials ,2004-12-18 Recent Advances in the Science and Technology of Zeolites and Related Materials 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 **Plasma Chemistry and Catalysis in Gases and Liquids** Vasile I. Parvulescu,Monica

Magureanu,Petr Lukes,2013-03-19 Filling the gap for a book that covers not only plasma in gases but also in liquids this is all set to become the standard reference for this topic It provides a broad based overview of plasma chemical and plasmacatalytic processes generated by electrical discharges in gases liquids and gas liquid environments in both fundamental and applied aspects by focusing on their environmental and green applications and also taking into account their practical and economic viability With the topics addressed by an international group of major experts this is a must have for scientists engineers students and postdoctoral researchers specializing in this field

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