

**J. Weitkamp  
L. Puppe (Eds.)**

# **Catalysis and Zeolites**

**Fundamentals  
and Applications**



**Springer**

# Catalysis And Zeolites Fundamentals And Applications

**Jiri Cejka, Avelino Corma, Stacey Zones**

## **Catalysis And Zeolites Fundamentals And Applications:**

**Catalysis and Zeolites** Jens Weitkamp, Lothar Puppe, 2013-04-17 Zeolites occur in nature and have been known for almost 250 years as aluminosilicate minerals. Examples are clinoptilolite, mordenite, offretite, ferrierite, erionite, and chabazite. Today, most of these and many other zeolites are of great interest in heterogeneous catalysis, yet their naturally occurring forms are of limited value as catalysts because nature has not optimized their properties for catalytic applications and the naturally occurring zeolites almost always contain undesired impurity phases. It was only with the advent of synthetic zeolites in the period from about 1948 to 1959, thanks to the pioneering work of R. M. Barrer and R. M. Milton, that this class of porous materials began to play a role in catalysis. A landmark event was the introduction of synthetic faujasite zeolite X at first, zeolite Y slightly later, as catalysts in fluid catalytic cracking (FCC) of heavy petroleum distillates in 1962, one of the most important chemical processes with a worldwide capacity of the order of 500 million t/a. Compared to the previously used amorphous silica-alumina catalysts, the zeolites were not only orders of magnitude more active, which enabled drastic process engineering improvements to be made, but they also brought about a significant increase in the yield of the target product, viz. motor gasoline. With the huge FCC capacity worldwide, the added value of this yield enhancement is of the order of 10 billion US per year.

Encyclopedia of Chemical Physics and Physical Chemistry: Applications Nicholas D. Spencer, John H. Moore, 2001

*Encyclopedia of Chemical Physics and Physical Chemistry* John H. Moore, Nicholas D. Spencer, 2023-07-03

The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas, explains important experimental and computational techniques, and describes modern endeavors. The encyclopedia quickly provides the basics, defines the scope of each subdiscipline, and indicates where to go for a more complete and detailed explanation. Particular attention has been paid to symbols and abbreviations to make this a user-friendly encyclopedia. Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist. The encyclopedia is divided into three major sections: FUNDAMENTALS, the mechanics of atoms and molecules and their interactions, the macroscopic and statistical description of systems at equilibrium, and the basic ways of treating reacting systems. The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections. At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text. METHODS, the instrumentation and fundamental theory employed in the major spectroscopic techniques, the experimental means for characterizing materials, the instrumentation and basic theory employed in the study of chemical kinetics, and the computational techniques used to predict the static and dynamic properties of materials. APPLICATIONS, specific topics of current interest and intensive research. For the practicing physicist or chemist, this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited. For a graduate student in chemistry or physics, the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied.

to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

**Zeolite Catalysts** Subhash Bhatia,2020-07-24 Presented in an easy to read form this book on zeolite catalysis cover all aspects of the subject It focuses on synthesis structure diffusion deactivation and industrial applications This book is an ideal text for courses on catalysis or as a supplementary text for those studying applied or industrial chemistry It is also a useful resource for anyone who works with zeolites as catalysts in the laboratory pilot plants or commercial installations

*Characterization I* Hellmut G. Karge,Jens Weitkamp,2004-02-09 Molecular Sieves Science and Technology covers in a comprehensive manner the science and technology of zeolites and all related microporous and mesoporous materials Authored by renowned experts the contributions are grouped together topically in such a way that each volume of the book series deals with a specific sub field Volume 4 covers the characterization of molecular sieves with the help of the most important spectroscopic techniques Characterization I i e IR Raman NMR EPR UV VIS Spectroscopy X ray absorption photoelectron and Mossbauer Spectroscopy Theory experiment and application in selected examples are discussed

*Ion Exchange Technology I* Inamuddin Dr.,Mohammad Luqman,2012-06-02 Ion exchange Technology I Theory and Materials describes the theoretical principles of ion exchange processes More specifically this volume focuses on the synthesis characterization and modelling of ion exchange materials and their associated kinetics and equilibria This title is a highly valuable source not only to postgraduate students and researchers but also to industrial R D specialists in chemistry chemical and biochemical technology as well as to engineers and industrialists

Scientific Bases for the Preparation of Heterogeneous Catalysts E. Gaigneaux,D.E. De Vos,P.A. Jacobs,J.A. Martens,P. Ruiz,G. Poncelet,P. Grange,2002-08-29 It has become a tradition that every four years the Universit Catholique de Louvain and the Katholieke Universiteit Leuven jointly organize a symposium devoted to the scientific bases for the preparation of heterogeneous catalysts These meetings bring together researchers from academia and industry and offer a forum for discussions on the chemistry involved in the preparation of industrial heterogeneous catalysts This volume containing the Proceedings of the 8th International Symposium on Scientific Bases for the Preparation of Heterogeneous Catalysts consists of papers summarizing most of the 139 oral communications and posters selected by the international scientific committee composed of 27 experts in the field of catalyst preparation holding an industrial or academia appointment The contributions focus on the aspects of catalyst preparation The main topics are new approaches in catalyst preparation advanced preparations of nanoporous and mesoporous catalysts catalysts preparation for special performances and purposes catalysts for environmental purposes and molecular catalysis Emphasis is put on the role that catalysis can play as an essential element of sustainable development

Acido-basic Catalysis Christian Marcilly,2005-11 This book presents a complete overview of acido basic catalysis applied to refining and petrochemistry as well as the fundamentals and the information required for a rational and coherent description of the major operations carried out in these two industries The

book places special emphasis on the reactional and mechanistic characteristics of hydrocarbon conversions and on the properties of the acids or bases underlying catalytic performance. It also focuses on the industrial aspects showing how these characteristics and properties determine the choice and features of the processes used. This reference manual is intended for professionals, scientists, engineers, and teachers wanting to acquire a solid background, develop their knowledge, or find further information. It will also be useful to students specialising in catalysis and the catalytic conversions of hydrocarbons.

Contents Volume 1: 1 Overview on Acido Basicity 2 Main Acids Superacids and Bases of Interest in Catalysis 3 Chemistry of Carbocations 4 Reactivity and Conversion Modes of the Main Hydrocarbon Families 5 Introduction to Refining and Petrochemistry 6 Base Catalysis Examples of Industrial Applications Glossary Index Volume 2: 7 Conversion of Aliphatic Feedstocks 8 Conversion of Simple Aromatic Feedstocks 9 Reactions between Various Hydrocarbons and the Alcohols Conversion of Methanol into Hydrocarbons 10 Catalytic Reforming 11 Processes Used in the Conversion of Heavy Feedstocks 12 Catalytic Dewaxing 13 Shape Selectivity in Acid Catalysis Conclusion Glossary Index

**Zeolites and Catalysis** Jiri Cejka, Avelino Corma, Stacey Zones, 2010-05-27 This indispensable two volume handbook covers everything on this hot research field. The first part deals with the synthesis, modification, characterization, and application of catalytic active zeolites, while the second focuses on such reaction types as cracking, hydrocracking, isomerization, reforming, and other industrially important topics. Edited by a highly experienced and internationally renowned team with chapters written by the Who's Who of zeolite research.

Handbook of Porous Solids Ferdi Schüth, K. S. W. Sing, Jens Weitkamp, 2002 *Nanoclusters and Nanocrystals* Hari Singh Nalwa, 2003 Nanoclusters potential applications include microelectronics, magnetic storage, optical data storage, spintronics, devices, telecommunications, sensors, transducers, biological markers, switches, electroluminescent displays, chemical reactors, and catalysts among others nanocrystalline materials w

**Frontiers in Catalysis Research** Lawrence P. Bevy, 2006 The chemical or biological process whereby the presence of an external compound, a catalyst, serves as an agent to cause a chemical reaction to occur or to improve reaction performance without altering the external compound. Catalysis is a very important process from an industrial point of view since the production of most industrially important chemicals involves catalysis. Research into catalysis is a major field in applied science and involves many fields of chemistry and physics. The new book brings together leading research in this vibrant field.

*Сборник Чехословацких Химических Работ*, 2008 *Catalysis and Zeolites* Jens Weitkamp, Lothar Puppe, 2014-01-15 *Chemistry and Industry*, 1999 **Synthesis of Redox Catalysts for Green Chemistry** Ulrich M. H. Hennings, 2001 *Industrial Organic Chemicals* Harold A. Wittcoff, Bryan G. Reuben, Jeffery S. Plotkin, 2004 Publisher Description **Open-framework Micro- and Meso- Structured Chalcogenides and Their Ion-exchange Properties** Nan Ding, 2007 *Zeolites as Catalysts, Sorbents and Detergent Builders* H.G. Karge, J. Weitkamp, 1989-05-01 This new book will be welcomed by companies involved in catalysis and catalyst manufacturing, sorbent and detergent production, chemical and petroleum refining, and by research

scientists in academia It contains 76 original contributions of recent work on fundamental and technological aspects of zeolite research and application Particular attention is paid to novel developments in zeolite catalysis sorption on zeolites and use of zeolites as detergent builders Problems of zeolite synthesis structure modification ion exchange diffusion and novel applications are also dealt with Topics which are the subject of much current interest are also treated e g new catalytic applications of zeolites in the synthesis of fine chemicals novel formulations of detergent builders and industrially developed zeolite based separation processes The application of zeolites is also discussed from both economic and ecological points of view The contributions cover a wide range of materials and results which are organised to a large extent in tables and figures and are identified by appropriate keywords The meeting at which these contributions were presented was the latest in a series of smaller more specialized zeolite meetings which are held in between the large International Zeolite Conferences Participating in the symposium were experts from both industry and academia who gave invited lectures oral and poster presentations The resulting book provides a large body of helpful information for present and future work and development in zeolite research and applications

Zeolites David P Serrano, Jiří Čejka, 2025-08-29 Widely used across many sectors including oil refining gas separation CO<sub>2</sub> capture and environmental remediation zeolites are among the most important industrial heterogeneous catalysts This introductory book expands readers understanding of zeolite chemistry while bringing them up to speed on new discoveries and current trends in this area of research Covering several topics ranging from structure and synthesis to specific applications Zeolites provides readers with a solid foundation to further explore these fascinating materials Following a historical retrospective of research on these materials Zeolites highlights their key mechanisms of synthesis and characterization current and emerging applications in industry and environmental issues For undergraduate and graduate students alike as well as for researchers new to the topic this book introduces the significant impact and untapped potential of zeolites in catalysis

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