

CHEMICAL PHYSICS

M. Baerns (Ed.)

Basic Principles in Applied Catalysis



Springer

Basic Principles In Applied Catalysis

Robert Schlögl



Basic Principles In Applied Catalysis:

Basic Principles in Applied Catalysis Manfred Baerns, 2013-03-09 Applied catalysis is based nowadays not only on empirical knowledge but also on the many insights that have been gained from the fundamental understanding of catalysis. It also comprises knowledge and expertise from catalytic reaction engineering in particular kinetics of the catalytic reaction and its interplay with heat and mass transfer as well as fluid dynamics and the specific conditions prevailing in the type of reactor used. Applied catalysis comprises many areas from a reaction point of view many types of catalytic materials from which catalysts are formed are needed to achieve high selectivities and space time yields. Last but not least catalysts should have a long life time to which its deactivation is detrimental. A catalytic material that fulfils all the demands then often requires special mechanical and thermal treatment to be used in practice. Various books have been written about specific areas as mentioned above. It is the intention of this contribution to present timely reports by well recognised experts in the field to outline the state of science and technology in selected but representative areas illustrating the basic principles of applied catalysis.

Basic Principles in Applied Catalysis Manfred Baerns, 2003-11-17 Written by a team of internationally recognized experts this book addresses the most important types of catalytic reactions and catalysts as used in industrial practice. Both applied aspects and the essential scientific principles are described. The main topics can be summarized as follows: heterogeneous, homogeneous and biocatalysis; catalyst preparation and characterization; catalytic reaction engineering and kinetics; catalyst deactivation and industrial perspective.

Principles of Catalyst Development James T. Richardson, 2013-12-21 Successful industrial heterogeneous catalysts fulfill several key requirements in addition to high catalytic activity for the desired reaction with high selectivity where appropriate they also have an acceptable commercial life and are rugged enough for transportation and charging into plant reactors. Additional requirements include the need to come online smoothly in a short time and reproducible manufacturing procedures that involve convenient processes at acceptable cost. The development of heterogeneous catalysts that meet these often mutually exclusive demands is far from straightforward and in addition much of the actual manufacturing technology is kept secret for commercial reasons thus there is no modern text that deals with the whole of this important subject. *Principles of Catalyst Development* which deals comprehensively with the design, development and manufacture of practical heterogeneous catalysts is therefore especially valuable in meeting the long standing needs of both industrialists and academics. As one who has worked extensively on a variety of catalyst development problems in both industry and academia James T. Richardson is well placed to write an authoritative book covering both the theory and the practice of catalyst development. Much of the material contained in this book had its origin in a series of widely acclaimed lectures attended mainly by industrial researchers given over many years in the United States and Europe. All those in industry who work with catalysts both beginners and those of considerable experience should find this volume an essential guide.

Petrochemical Catalyst Materials, Processes, and

Emerging Technologies Al-Megren, Hamid, Xiao, Tiancun, 2016-02-17 Technological advancements are leading the way for innovation within the petrochemical industry New materials discovery and application process modification and automation and market and demand changes are just a few of the many changes occurring as a result of technology innovation and integration Petrochemical Catalyst Materials Processes and Emerging Technologies addresses the latest research on emerging technological applications catalyst materials for fuel upgrading in addition to safety concerns and considerations within the petrochemical industry Emphasizing critical research and emerging developments in the field this publication is an essential resource for engineers researchers and graduate level engineering students in the fields of chemical and petroleum engineering

Chemical Energy Storage Robert Schlögl, 2012-12-21 The use of regenerative energy in many primary forms leads to the necessity to store grid dimensions for maintaining continuous supply and enabling the replacement of fossil fuel systems Chemical energy storage is one of the possibilities besides mechano thermal and biological systems This work starts with the more general aspects of chemical energy storage in the context of the geosphere and evolves to dealing with aspects of electrochemistry catalysis synthesis of catalysts functional analysis of catalytic processes and with the interface between electrochemistry and heterogeneous catalysis Top notch experts provide a sound practical hands on insight into the present status of energy conversion aimed primarily at the young emerging research front

Metal Oxide Nanoparticles Oliver Diwald, Thomas Berger, 2021-09-10 Ein umfassendes Referenzwerk für Chemiker und Industriefachleute zum Thema Nanopartikel Nanopartikel aus Metalloxid sind ein wesentlicher Bestandteil zahlreicher natürlicher und technologischer Prozesse von der Mineralumwandlung bis zur Elektronik Darüber hinaus kommen Metalloxid Nanopartikel in Pulverform im Maschinenbau in der Elektronik und der Energietechnik zum Einsatz Das Werk Metal Oxide Nanoparticles Formation Functional Properties and Interfaces stellt die wichtigsten Synthese und Formulierungsansätze bei der Nutzung von Metalloxid Nanopartikeln als Funktionsmaterialien vor Es werden die üblichen Verarbeitungswege erklärt und die physikalischen und chemischen Eigenschaften der Partikel mithilfe von umfassenden und ergänzenden Charakterisierungsmethoden bewertet Dieses Werk kann als Einführung in die Formulierung von Nanopartikeln ihre Grenzflächenchemie und ihre funktionellen Eigenschaften im Nanobereich genutzt werden Darüber hinaus dient es zum vertiefenden Verständnis denn das Buch enthält detaillierte Angaben zu fortschrittlichen Methoden bei der physikalischen chemischen Oberflächen und Grenzflächencharakterisierung von Metalloxid Nanopartikeln in Pulvern und Dispersionen Erläuterung der Anwendung von Metalloxid Nanopartikeln und der wirtschaftlichen Auswirkungen Betrachtung der Partikelsynthese einschließlich der Grundsätze ausgewählter Bottom up Strategien Untersuchung der Formulierung von Nanopartikeln mit einer Auswahl von Verarbeitung und Anwendungswegen Diskussion der Bedeutung von Partikeloberflächen und Grenzflächen für Strukturbildung Stabilität und funktionelle Materialeigenschaften Betrachtung der Charakterisierung von Metalloxid Nanopartikeln auf verschiedenen Längenskalen In diesem Buch finden Forscher im akademischen Bereich Chemiker in der

Industrie und Doktoranden wichtige Erkenntnisse über die Synthese Eigenschaften und Anwendungen von Metalloxid Nanopartikeln

Membrane Reactor Engineering Angelo Basile, Marcello De Falco, Gabriele Centi, Gaetano Iaquaniello, 2016-08-01 Uniquely focussed on the engineering aspects of membrane reactors Provides tools for analysis with specific regard to sustainability Applications include water treatment wastewater recycling desalination biorefineries agro food production Membrane reactors can bring energy saving reduced environmental impact and lower operating costs

Membranes for Membrane Reactors Angelo Basile, Fausto Gallucci, 2010-12-20 A membrane reactor is a device for simultaneously performing a reaction and a membrane based separation in the same physical device Therefore the membrane not only plays the role of a separator but also takes place in the reaction itself This text covers in detail the preparation and characterisation of all types of membranes used in membranes reactors Each membrane synthesis process used by membranologists is explained by well known scientists in their specific research field The book opens with an exhaustive review and introduction to membrane reactors introducing the recent advances in this field The following chapters concern the preparation of both organic and inorganic and in both cases a deep analysis of all the techniques used to prepare membrane are presented and discussed A brief historical introduction for each technique is also included followed by a complete description of the technique as well as the main results presented in the international specialized literature In order to give to the reader a summary look to the overall work a conclusive chapter is included for collecting all the information presented in the previous chapters Key features Fills a gap in the market for a scientific book describing the preparation and characterization of all the kind of membranes used in membrane reactors Discusses an important topic there is increasing emphasis on membranes in general due to their use as energy efficient separation tools and the green chemistry opportunities they offer Includes a review about membrane reactors several chapters concerning the preparation organic inorganic dense porous and composite membranes and a conclusion with a comparison among the different membrane preparation techniques

Catalysis from A to Z Boy Cornils, 2007 Comprehensive succinct and easy to use this updated third edition contains 50% more content in three volumes More than 200 top scientists worldwide have contributed over 8 000 entries with 3 300 cross references on all aspects of bio heterogeneous and homogeneous catalysis

Liquid-solid Interfaces of Catalysis Relevance Zhen Ma, 2006

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

Catalysis J.A. Moulijn, P.W.N.M. van Leeuwen, R.A. van Santen, 1993-09-09 Catalysis is a multidisciplinary activity which is reflected in this book. The editors have chosen a novel combination of basic disciplines: homogeneous catalysis by metal complexes is treated jointly with heterogeneous catalysis with metallic and non-metallic solids. The main theme of the book is the molecular approach to industrial catalysis. In the introductory section Chapter 1 presents a brief survey of the history of industrial heterogeneous and homogeneous catalysis. Subsequently a selection of current industrial catalytic processes is described. Chapter 2: A broad spectrum of important catalytic applications is presented including the basic chemistry, some engineering aspects, feedstock sources and product utilisation. In Chapter 3 kinetic principles are treated. The section on fundamental catalysis begins with a description of the bonding in complexes and to surfaces. Chapter 4: The elementary steps on complexes and surfaces are described. The chapter on heterogeneous catalysis 5 deals with the mechanistic aspects of three groups of important reactions: syn gas conversion, hydrogenation and oxidation. The main principles of metal and metal oxide catalysis are presented. Likewise the chapter on homogeneous catalysis 6 concentrates on three reactions representing examples from three areas: carbonylation, polymerization and asymmetric catalysis. Identification by in situ techniques has been included. Many constraints to the industrial use of a catalyst have a macroscopic origin. In applied catalysis it is shown how catalytic reaction engineering deals with such macroscopic considerations in heterogeneous as well as homogeneous catalysis. Chapter 7: The transport and kinetic phenomena in both model reactors and industrial reactors are outlined. The section on catalyst preparation. Chapters 8 and 9 are concerned with the preparation of catalyst supports, zeolites and supported catalysts with an emphasis on general principles and mechanistic aspects. For the supported catalysts the relation between the preparative method and the surface chemistry of the support is highlighted. The molecular approach is maintained throughout. The first chapter 10 in the section on catalyst characterization summarizes the most common spectroscopic techniques used for the characterisation of heterogeneous catalysts such as XPS, Auger, EXAFS etc. Temperature programmed techniques which have found widespread application in heterogeneous catalysis both in catalyst characterization and simulation of pretreatment procedures are discussed in Chapter 11. A discussion of texture measurement theory and application concludes this section. 12. The final chapter 13 gives an outline of current trends in catalysis. Two points of view are adopted: the first one focusses on developments in process engineering. Most often these have their origin in demands by society for better processes. The second point of view draws attention to the autonomous developments in catalysis which is becoming one of the frontier sciences of physics and chemistry. In this book emphasis is on those reactions catalyzed by heterogeneous and homogeneous catalysts of industrial relevance. The integrative treatment of the subject matter involves many disciplines; consequently the writing of the book has been a multi-author task. The editors have carefully planned and harmonized the contents of the chapters.

Photocatalysis Suresh C. Pillai, Vignesh

Kumaravel,2021-08-23 This book is a concise and up to date introduction to the topic of photocatalysis It covers the fundamentals of photocatalysis design of photoreactors and modelling and simulations for photoreaction Also industrial applications such as hydrogen production water disinfection degradation of air pollutants pesticides and pharmaceuticals are described

Catalytic Processes in Applied Chemistry Thomas Percy Hilditch,1929 *Journal of the American Chemical Society* American Chemical Society,1920 Proceedings of the Society are included in v 1 59 1879 1937 Journal American Chemical Society,2004 *Forthcoming Books* Rose Arny,1989-05 **Ultrafast Phenomena** ,2004 *Information Bulletin* International Union of Pure and Applied Chemistry,1961 **Feasibility of Poverty Reduction Through Local Capacity Development** Yasuko Kusakari,2004

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