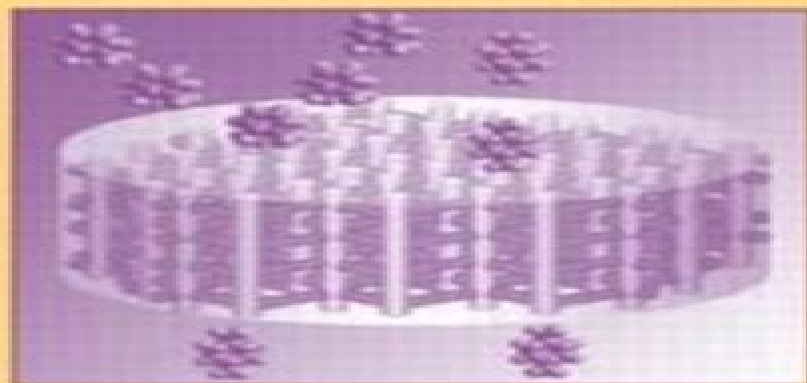


HANDBOOK OF ZEOLITE SCIENCE AND TECHNOLOGY



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SCOTT M. AUERBACH
KATHLEEN A. CARRADO
PRABIR K. DUTTA

Handbook Of Zeolite Science And Technology

Wm. Curtis Conner, Jacques Fraissard



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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 concepts with the most sophisticated data for each scientific subtopic and budding technology Supplying over 750 figures and 350 display equations this impressive achievement in zeolite science observes synthesis through the lens of MFI ZSM 5 and silicalite Chapters progress from conceptual building blocks to complex research presentations

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Recent Advances and New Horizons in Zeolite Science and Technology H. Chon, S.I. Woo, S.-E. Park, 1996-07-08 This volume was conceived as a handbook for the Pre Conference Summer School on Zeolites held in Taejon Korea The 11th IZC Summer School was organized to acquaint those already actively working in zeolite science and technology with the latest developments and to develop new prospects of zeolite science and technology for the 21st century The aim of this volume is to give an extensive review and analysis of the important new findings of the last 10 years on the synthesis characterization and applications of zeolite materials as well as the prediction of new R D directions for the next decade

Fluid Transport in Nanoporous Materials Wm. Curtis Conner, Jacques Fraissard, 2006-03-10 This NATO ASI involved teachings and perspectives of the state of the art in experimental and theoretical understandings of transport in nanoporous solids This workshop brought together the top scientists and engineers in each area to discuss the similarities and differences in each technique and theory The lectures truly bridge the gaps between these related areas and approaches The applications in future separations catalysis the environment and energy needs are obvious The solids comprised the newly developing molecular sieves biological systems and polymeric solids Transport in single particles in membranes and in commercial

applications were reviewed and analyzed placing each in context Techniques such as uptake Chromatographic Frequency Response NMR Neutron Scattering and Infrared spectroscopies are discussed for mixtures as well as for single components Theoretical approaches such as Density Functional Theory Statistical Mechanics Molecular Dynamics and Maxwell Stefan Theory are employed to analyze the diffusional transport in confined environments spanning from sub nanometers to centimetre scales In all cases the theories are related to the experiments These lectures present a unique opportunity to learn the various theoretical and experimental approaches to analyze and understand transport in nanoporous materials

Adsorption and Diffusion in Nanoporous Materials Rolando M.A. Roque-Malherbe, 2007-03-05 As nanomaterials get smaller their properties increasingly diverge from their bulk material counterparts Written from a materials science perspective Adsorption and Diffusion in Nanoporous Materials describes the methodology for using single component gas adsorption and diffusion measurements to characterize nanoporous solids Concise yet comprehensive the book covers both equilibrium adsorption and adsorption kinetics in dynamic systems in a single source It presents the theoretical and mathematical tools for analyzing microporosity kinetics thermodynamics and transport processes of the adsorbent surface Then it examines how these measurements elucidate structural and morphological characteristics of the materials Detailed descriptions of the phenomena include diagrams essential equations and fully derived concrete examples based on the author's own research experiences and insight The book contains chapters on statistical physics dynamic adsorption in plug flow bed reactors and the synthesis and modification of important nanoporous materials The final chapter covers the principles and applications of adsorption for multicomponent systems in the liquid phase Connecting recent advances in adsorption characterization with developments in the transport and diffusion of nanoporous materials this book is ideal for scientists involved in the research development and applications of new nanoporous materials

Nanoporous Materials for Gas Storage Katsumi Kaneko, Francisco Rodríguez-Reinoso, 2019-04-27 This book shows the promising future and essential issues on the storage of the supercritical gases including hydrogen methane and carbon dioxide by adsorption with controlling the gas solid interaction by use of designed nanoporous materials It explains the reason why the storage of these gases with adsorption is difficult from the fundamentals in terms of gas solid interaction It consists of 14 chapters which describe fundamentals application key nanoporous materials nanoporous carbon metal organic frame works zeolites and their storage performance for hydrogen methane and carbon dioxide Thus this book appeals to a wide readership of the academic and industrial researchers and it can also be used in the classroom for graduate students focusing on clean energy technology green chemistry energy conversion and storage chemical engineering nanomaterials science and technology surface and interface science adsorption science and technology carbon science and technology metal organic framework science zeolite science nanoporous materials science nanotechnology environmental protection and gas sensors

Microporous Materials for Separation Membranes Xiaoqin Zou, Guangshan Zhu, 2019-05-29 A guide to membrane separation based on

a variety of porous materials with promising separation applications Microporous Materials for Separation Membranes offers an in depth guide that explores microporous materials potential for membrane applications The authors two experts on the topic examine a wide range of porous materials that have application potential including microporous silica porous carbons zeolites metal organic frameworks MOFs and porous organic frameworks POFs Comprehensive in scope the book covers a broad range of topics on membrane separations such as hydrogen recovery carbon dioxide capture air purification hydrocarbon separation pervaporation and water treatment In addition this up to date resource explores the most recent materials for preparing microporous membranes and explores the most promising applications for industrial use This important book Examines the use of microporous materials as membranes to perform with different gases and liquids Offers an overview of the basic knowledge of membrane separation and an intense examination of separations Describes the state of the art of membrane separation with porous materials Highlights the most promising applications of industrial interest Written for scientists working in the fields of membranes gas and liquid Microporous Materials for Separation Membranes offers a valuable guide to the potential of microporous materials for membrane applications

CO2 Free Ammonia as an Energy Carrier Ken-ichi Aika,Hideaki Kobayashi,2022-11-01 This book describes important findings in intensive studies conducted in Japan on ammonia as an energy carrier It illustrates an advanced solar heat capture system and storage materials at 600 C and hydrogen production with SOECs and a new IS method through the use of heat New industrial ammonia catalysts and a demonstration process that started running in Fukushima are also introduced Advanced ammonia decomposition catalysts and the process that were developed for use by the hydrogen station are presented An advanced direct ammonia fuel cell was developed and the base data are shown The book explains that ammonia is used as a fuel for industrial applications because its burning can be controlled without emitting extra NOx in the gas turbine and the real coal co fired power plant These breakthroughs have made a strong impact in the world as a practical technology for CO2 reduction Also provided here are the scientific and industrial backgrounds as well as the environmental assessment and economic evaluation for the future This book will be helpful for all who are interested in energy technology researchers students and strategy planners at companies and in the government

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

NMR Imaging in Chemical Engineering Siegfried Stapf,Song-I Han,2006-05-12 How to use nuclear magnetic resonance imaging in chemical engineering Written by the internationally recognized top experts from academia and industry this first book dedicated to the topic provides an overview

of existing methods and strategies to solve individual problems in chemical engineering Written in a simple and lively manner and backed by various industrial examples the book begins with a look at hardware and methods continuing on to cover porous materials fluids and flow of increasing complexity from different fields of Chemical Engineering before finishing off with a review of reactors and reactions The result allows engineers industrial and academic researchers and decision makers to gain a detailed insight into the NMR toolbox such that they can estimate the benefit of NMR imaging with regard to cost efficiency and scientific results Porous Polymers Michael S. Silverstein, Neil R. Cameron, Marc A. Hillmyer, 2011-04-19

This book gathers the various aspects of the porous polymer field into one volume It not only presents a fundamental description of the field but also describes the state of the art for such materials and provides a glimpse into the future Emphasizing a different aspect of the ongoing research and development in porous polymers the book is divided into three sections Synthesis Characterization and Applications The first part of each chapter presents the basic scientific and engineering principles underlying the topic while the second part presents the state of the art results based on those principles In this fashion the book connects and integrates topics from seemingly disparate fields each of which embodies different aspects inherent in the diverse field of porous polymeric materials **Heterogeneous Catalysis in Organic**

Transformations Varun Rawat, Anirban Das, Chandra Mohan Srivastava, 2022-04-06 As the broad challenges around energy and the environment have become the focus of much research scientists and experts have dedicated their efforts to developing more active and selective catalytic systems for key chemical transformations For many decades environmentally viable protocols for the synthesis of fine chemicals have been the crux of academic and industrial research Heterogeneous Catalysis in Organic Transformations serves as an overview of this work providing a complete description of role of heterogeneous catalysis in organic transformations and offering a review of the current and near future technologies and applications Discusses the fundamentals of catalysis and compares the advantages and disadvantages of different types of catalyst systems Examines oxide nanoparticles and noble metal nanoparticles Consider organometallic compounds solid supported catalysts and mesoporous materials Describes recent advances in metal based heterogeneous catalysts and new reactions with possible mechanistic pathways Providing a comprehensive review of heterogeneous catalysis from the basics through recent advances this book will be of keen interest to undergraduates graduates and researchers in chemistry chemical engineering and associated fields *Carbon Capture and Storage* Mai Bui, Niall Mac Dowell, 2019-11-29

Carbon capture and storage CCS and negative emissions technologies will play an essential role in mitigating the impact of global warming and meeting the temperature targets set by the IPCC and by COP21 Identifying the role and value of CCS relative to other mitigation technologies is of vital importance This book provides a comprehensive up to date overview of the major sources of carbon dioxide emission capture and storage as well as negative emissions technologies and provides insight into the role and value of CCS in the industrial and power sectors The issues associated with commercial deployment of CCS are

discussed providing potential approaches to overcome these hurdles through a combination of political economic and R D strategies Carbon Capture and Storage provides the latest global perspective on the role and value of CCS in delivering temperature targets and reducing the impact of global warming With contributions from internationally recognised leaders this book will appeal to graduate students and researchers in academia and industry working in chemical engineering mechanical engineering and energy policy Introduction to Green Chemistry John Andraos, Albert S. Matlack, 2022-03-09 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

The Physics and Chemistry of Inorganic Clathrates George S. Nolas, 2014-08-12 The chemistry and physics of group 14 elements such as silicon and germanium have been extensively studied largely due to their fundamental importance in the development of semiconductor electronics In addition crystalline open framework and nano porous materials are attracting increasing attention for their potential technological applications Inorganic open framework materials comprised of group 14 elements crystallizing in crystal structures known as clathrates are of particular interest These materials correspond to expanded forms and in some cases metastable allotropes of silicon germanium and tin The novel crystal structures these materials possess are intimately related to the unique physical properties they exhibit Just as interesting as the structure and properties group 14 clathrates display is the diverse range of synthetic techniques developed to synthesize and grow single

crystals of these materials This volume will encompass many of these aspects and describe their potential for important technological applications

Bionanocomposites for Packaging Applications

Mohammad Jawaid, Sarat Kumar Swain, 2017-11-21 This book presents a unified overview of eco friendly bionanocomposites on the basis of characterization design manufacture and application It also explores replacing conventional materials with bionanocomposites with a focus on their use in packaging applications In addition the book broadens readers insights by providing illustrations and tables summarizing the latest research on the packaging applications of different bionanocomposites By offering a detailed account of this field of research and describing real world applications it enables researchers scientists and professionals in industry to develop a more informed understanding of the need for bionanocomposites in the development of green biodegradable and sustainable packaging applications

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

Microporous Framework

Solids Paul A. Wright, 2008 The field of microporous solids in solid state chemistry has seen a huge expansion over the last decades with new developments in a diverse range of directions and applications Drawing upon nature as an inspiration scientists are continually extending known families and preparing porous solids with novel structures In turn the novel properties that these possess stimulate further research and applications Microporous Framework Solids describes fundamental principles and experimental practices of the synthetic chemistry and physical characterisation of crystalline microporous solids It also provides a clear and up to date discussion of different types of microporous materials their applications and emerging areas of current interest written from a personal research perspective Topics include the different types of solids and their properties with key emphasis placed on the relationship between properties and structure Structural methods are also discussed including the role of diffraction NMR and computational studies Finally applications for catalysis are reviewed This book is ideal for new researchers in the field of microporous solids both in academia and industry who require a detailed and informative overview of the subject It provides a comprehensive review of microporous materials in an easily accessible style offering a valuable source of references over a wide range of topics

Nanotechnology

Applications for Clean Water Anita Street, Richard Sustich, Jeremiah Duncan, Nora Savage, 2014-05-15 Nanotechnology is already having a dramatic impact on improving water quality and the second edition of Nanotechnology Applications for Clean Water highlights both the challenges and the opportunities for nanotechnology to positively influence this area of environmental protection This book presents detailed information on cutting edge technologies current research and trends that may impact the success and uptake of the applications Recent advances show that many of the current problems with

water quality can be addressed using nanosorbents nanocatalysts bioactive nanoparticles nanostructured catalytic membranes and nanoparticle enhanced filtration The book describes these technologies in detail and demonstrates how they can provide clean drinking water in both large scale water treatment plants and in point of use systems In addition the book addresses the societal factors that may affect widespread acceptance of the applications Sections are also featured on carbon nanotube arrays and graphene based sensors for contaminant sensing nanostructured membranes for water purification and multifunctional materials in carbon microspheres for the remediation of chlorinated hydrocarbons Addresses both the technological aspects of delivering clean water supplies and the societal implications that affect take up Details how the technologies are applied in large scale water treatment plants and in point of use systems Highlights challenges and the opportunities for nanotechnology to positively influence this area of environmental protection

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