Zeolites in Industrial Separation and Catalysis



Zeolites In Industrial Separation And Catalysis

Lutz Hilterhaus, Andreas Liese, Ulrich Kettling, Garabed Antranikian

Zeolites In Industrial Separation And Catalysis:

Zeolites in Industrial Separation and Catalysis Santi Kulprathipanja, 2010-01-26 This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes. The first part of the book discusses the history and chemistry of zeolites while the second section focuses on separation processes The third and final section treats zeolites in the field of catalysis The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent a membrane and as a catalyst while also discussing their impact within the industry Zeolites in Catalysis Jiří Čejka, Russell E Morris, Petr Nachtigall, 2017-06-01 Covering the breadth of zeolite chemistry and catalysis this book provides the reader with a complete introduction to field covering synthesis structure characterisation and applications Beginning with the history of natural and synthetic zeolites the reader will learn how zeolite structures are formed synthetic routes and experimental and theoretical structure determination techniques Their industrial applications are covered in depth from their use in the petrochemical industry through to fine chemicals and more specialised clinical applications Novel zeolite materials are covered including hierarchical zeolites and two dimensional zeolites showcasing modern developments in the field This book is ideal for newcomers who need to get up to speed with zeolite chemistry and also experienced researchers who will find this a modern Advances in Chromatography, Volume 57 Nelu Grinberg, Peter W. Carr, 2020-08-09 For more than up to date guide five decades scientists and researchers have relied on the Advances in Chromatography series for the most up to date information on a wide range of developments in chromatographic methods and applications. The clear presentation of topics and vivid illustrations for which this series has become known makes the material accessible and engaging to analytical biochemical organic polymer and pharmaceutical chemists at all levels of technical skill This volume considers the achievements and legacy of Lloyd R Snider in separation science and analytical chemistry Key Features Provides a historical perspective of the evolution of SMB technology together with a theoretical analysis of the most relevant underlying phenomena Presents a brief survey of the polar columns suitable for HILIC separations and pays special attention to the role of the mobile phase in RP and HILIC modes Describes recent strategies of method development in Kosmotropic chromatography Surveys the many approaches to avert the effects of temperature in reversed phase liquid chromatographic separations Reviews separation of isotopic compounds by HPLC in relation to the advances of columns and stationary phases

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 Nanotechnology in Catalysis Bert Sels, Marcel Van de Voorde, 2017-06-21 Reflecting the R D efforts in the field that have resulted in a plethora of novel applications over the past decade this handbook gives a comprehensive overview of the tangible benefits of nanotechnology in catalysis By bridging fundamental research and industrial development it provides a unique perspective on this scientifically and economically important field While the first three parts are devoted to preparation and characterization of nanocatalysts the final three provide in depth insights into their applications in the fine chemicals industry the energy industry and for environmental protection with expert authors reporting on real life applications that are on the brink of commercialization Timely reading for catalytic chemists materials scientists chemists in industry and process Applied Biocatalysis Lutz Hilterhaus, Andreas Liese, Ulrich Kettling, Garabed Antranikian, 2016-07-27 This engineers reference book originates from the interdisciplinary research cooperation between academia and industry In three distinct parts latest results from basic research on stable enzymes are explained and brought into context with possible industrial applications Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts Application of extreme reaction conditions i e unconventional such as high temperature pressure and pH value biocatalysts are normally used within a well defined process window leads to novel synthetic effects Both novel enzyme systems and the synthetic routes in which they can be applied are made accessible to the reader In addition the complementary innovative process technology under unconventional conditions is AI-Guided Design and Property Prediction for Zeolites and highlighted by latest examples from biotech industry Nanoporous Materials German Sastre, Frits Daeyaert, 2023-01-30 AI Guided Design and Property Prediction for Zeolites and Nanoporous Materials A cohesive and insightful compilation of resources explaining the latest discoveries and methods in the field of nanoporous materials In Artificial Intelligence for Zeolites and Nanoporous Materials Design Synthesis and Properties Prediction a team of distinguished researchers delivers a robust compilation of the latest knowledge and most recent developments in computational chemistry synthetic chemistry and artificial intelligence as it applies to zeolites porous molecular materials covalent organic frameworks and metal organic frameworks. The book presents a common language that unifies these fields of research and advances the discovery of new nanoporous materials The editors have included resources that describe strategies to synthesize new nanoporous materials construct databases of materials structure directing agents and synthesis conditions and explain computational methods to generate new materials They also offer material that discusses AI and machine learning algorithms as well as other similar approaches to the field Readers will also find a comprehensive approach to artificial intelligence applied to and written in the language of materials chemistry guiding the reader through the fundamental questions on how far computer algorithms and numerical representations can drive our search of new nanoporous materials for specific applications Designed for academic researchers and industry professionals

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component of the emerging hydrogen economy an energy infrastructure based on hydrogen Since hydrogen can be produced without using fossil fuels a move to such an economy has the potential to reduce greenhouse gas emissions and improve energy security However such a move also requires the advanced production storage and usage techniques discussed in this book Part one introduces the fundamentals of hydrogen production storage and distribution including an overview of the development of the necessary infrastructure an analysis of the potential environmental benefits and a review of some important hydrogen production technologies in conventional bio based and nuclear power plants Part two focuses on hydrogen production from renewable resources and includes chapters outlining the production of hydrogen through water electrolysis photocatalysis and bioengineered algae Finally part three covers hydrogen production using inorganic membrane reactors the storage of hydrogen fuel cell technology and the potential of hydrogen as a fuel for transportation Advances in Hydrogen Production Storage and Distribution provides a detailed overview of the components and challenges of a hydrogen economy This book is an invaluable resource for research and development professionals in the energy industry as well as academics with an interest in this important subject Reviews developments and research in this dynamic area Discusses the challenges of creating an infrastructure to store and distribute hydrogen Reviews the production of hydrogen using electrolysis and photo catalytic methods Handbook of Textile Effluent Remediation Mohd Yusuf, 2018-07-11 Nowadays textile units utilize a number of dyes chemicals reagents and solvents to impart the desired quality to fabrics and generate a substantial quantity of effluents contaminants which cause severe environmental problems if disposed of without proper treatment In view of several surveys carried out through research papers books technical articles and general reports published in high repute academic societies Handbook of Textile Effluent Remediation provides a detailed narration of the acceptable methods of treating textile wastewater such as active ozonation membrane filtration and adsorption The book discusses emerging and suitable treatment systems that are viable efficient and economical In this context it provides an array of several traditional as well as advanced treatment practices for textile effluents It covers research oriented descriptions of textile wastewater treatment that can be adopted by scientific communities academicians and undergraduate and postgraduate students of industrial engineering materials science and engineering physics and chemistry It offers several interesting methodologies and aspects of current dimensional research through user friendly content tables and figures and provides up to date literature on important and useful information for textile effluents their impact on the environment and advanced remediation processes Needless to say this book is of immense use to global researchers academicians and consultants engaged in various streams of wastewater treatment science **Chemical Engineering** Design Ray Sinnott, Gavin Towler, 2019-05-26 Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance

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also discussed Several engineering aspects of materials synthesis are also included The contents of this book are useful for researchers and professionals working in the areas of materials and chemistry Hydrocarbon Chemistry, 2 Volume Set George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-10-02 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 Cooling Technologies Sotirios Karellas, Tryfon C Roumpedakis, Nikolaos Tzouganatos, Konstantinos Braimakis, 2018-10-03 Solar Cooling Technologies presents a detailed study of the potential technologies for coupling solar energy and cooling systems Unifies all the various power based solar techniques into one book investigates tri generation schemes for maximization of cooling efficiency especially for small scale applications and offers direct comparison of all possible technologies of solar cooling Includes detailed numerical investigations for potential cooling applications

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