

Ceramic Membranes For Separation And Reaction

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Chandan Das, Sujoy Bose



Ceramic Membranes For Separation And Reaction Ceramic Membranes For Separation And Reaction:

Ceramic Membranes for Separation and Reaction Kang Li, 2007 Starting by documenting established procedures of ceramic membrane preparation and characterization this title then focuses on gas separation It covers ceramic membrane reactors as distributors and separators and general engineering considerations

Inorganic Membranes for Separation and Reaction H.P. Hsieh, 1996-06-07 With the recent advent of commercial ceramic membranes inorganic membranes are receiving much attention as unique separators and reactors due to their excellent thermal and chemical stabilities This volume provides an extensive and integrated survey of the science and technology of inorganic membranes Various methods for making dense metal and solid electrolyte membranes and porous inorganic membranes with tortuous and nearly straight pores are provided These inorganic membranes ranging from ceramics to metals to inorganic polymers can be characterized by many techniques indicative of their separation performance under idealized as well as application conditions In addition to many commercial liquid phase applications inorganic membranes have been used industrially for gas diffusion and particle filtration and demonstrated for the important high temperature gas separation and membrane reactor applications Approximately half of the book is devoted to the subject of inorganic membrane reactors Useful data in many tables and figures and extensive literature and patent information are given throughout the book for further study The book is a valuable reference for researchers as well as process engineers who are involved in membrane and separation technology Chemical engineers chemists and material scientists should also find the text a comprehensible introduction to the subject

Simultaneous Reaction and Separation by Selective Microporous Ceramic Membranes Ying Liu Becker, 1991

Handbook of Membrane Separations Anil K. Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors

Membrane Engineering in the Circular Economy Adolfo Iulianelli, Alfredo Cassano, Carmela Conidi, Konstantinos Petrotos, 2022-04-12 Membrane Engineering in the Circular Economy Renewable Sources Valorization in Energy and Downstream Processing in Agro food Industry describes the modification of the general concept of waste including waste valorization as added value products that are useful for energy production and biotechnology industries Speaking to the relevance of this new vision the book highlights the fundamentals of membrane operations in the exploitation of renewable sources for energy production and the valorization of agro food waste at the industrial level This book is an excellent resource for researchers biologists

membranologists and engineers in chemistry biochemical engineering food sciences and the agro food refinery industry Discusses membrane engineering for agro food wastes transformation into added value products Presents circular and zero waste economy principles pursued by membrane technology and applied to the agro food industry Includes potentialities of agro food wastes for renewable and energy production via membrane operations

Recent Advances in Gas Separation by Microporous Ceramic Membranes N.K. Kanellopoulos, 2000-09-26 This book is dedicated to the rapidly growing field of microporous ceramic membranes with separating layers of pore diameter less than 2nm The chapters of this book bring forward a wide range of issues namely fundamentals of complex sorption and transport processes in micropore structures highly innovative methods of preparation of microporous membranes and examples of their possible commercial applications This book presents insights by distinguished investigators who have contributed significantly to the advance of research efforts in the diverse topics described herein Recently significant progress has been made with respect to the development of novel microporous asymmetric membranes mainly involving modification by means of deposition of additional material within the pores of the substrates Most state of the art technologies aiming in the development of microporous ceramic membrane are presented in the third section of the book These include several material deposition methods and techniques on macroporous or mesoporous supports and substrates from the liquid or vapour phase namely those involving sol gel zeolite and chemical vapour deposition techniques In addition to the above mentioned methods the classical technique of carbonizing polymeric deposits along with one of the novel techniques of plasma treating organically deposited Langmuir Blodgett films are also presented Nanophase mixed ionic electron membranes for enhanced oxygen transport are described which pose a strong candidacy for a number of significant commercial applications

Membrane Reactors for Energy Applications and Basic Chemical Production Angelo Basile, Luisa Di Paola, Faisal Hai, Vincenzo Piemonte, 2015-02-05 Membrane Reactors for Energy Applications and Basic Chemical Production presents a discussion of the increasing interest in membrane reactors that has emerged in recent years from both the scientific and industrial communities in particular their usage for energy applications and basic chemical production Part One of the text investigates membrane reactors for syngas and hydrogen production while Part Two examines membrane reactors for other energy applications including biodiesel and bioethanol production The final section of the book reviews the use of membrane reactors in basic chemical production including discussions of the use of MRs in ammonia production and the dehydrogenation of alkanes to alkenes Provides comprehensive coverage of membrane reactors as presented by a world renowned team of experts Includes discussions of the use of membrane reactors in ammonia production and the dehydrogenation of alkanes to alkenes Tackles the use of membrane reactors in syngas hydrogen and basic chemical production Keen focus placed on the industry particularly in the use of membrane reactor technologies in energy

Inorganic Membrane Reactors Xiaoyao Tan, Kang Li, 2015-03-02 Membrane reactors combine membrane functions such as separation reactant distribution and catalyst

support with chemical reactions in a single unit. The benefits of this approach include enhanced conversion, increased yield and selectivity, as well as a more compact and cost-effective design of reactor system. Hence, membrane reactors are an effective route toward chemical process intensification. This book covers all types of porous membrane reactors, including ceramic, silica, carbon, zeolite, and dense metallic reactors such as Pd or Pd alloy, oxygen ion conducting, and proton conducting ceramics. For each type of membrane reactor, the membrane transport principles, membrane fabrication, configuration, and operation of membrane reactors and their current and potential applications are described comprehensively. A summary of the critical issues and hurdles for each membrane reaction process is also provided with the aim of encouraging successful commercial applications. The audience for *Inorganic Membrane Reactors* includes advanced students, industrial and academic researchers, and engineers with an interest in membrane reactors.

Comprehensive Membrane Science and Engineering Enrico Drioli, Lidietta Giorno, Enrica Fontananova, 2017-07-20. *Comprehensive Membrane Science and Engineering* Second Edition Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology. Written by leading researchers and industry professionals from a range of backgrounds, chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010. Chapters are written by academics and practitioners across a variety of fields including chemistry, chemical engineering, material science, physics, biology, and food science. Each volume covers a wide spectrum of applications and advanced technologies such as new membrane materials, e.g., thermally rearranged polymers, polymers of intrinsic microporosity, and new hydrophobic fluoropolymer, and processes, e.g., reverse electrodialysis, membrane contractors, membrane crystallization, membrane condenser, membrane dryers, and membrane emulsifiers that have only recently proved their full potential for industrial application. This work covers the latest advances in membrane science, linking fundamental research with real-life practical applications using specially selected case studies of medium and large-scale membrane operations to demonstrate successes and failures with a look to future developments in the field. Contains comprehensive, cutting-edge coverage helping readers understand the latest theory. Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries. Provides the theory behind the limits, advantages, future developments, and failure expectations of local membrane operations in emerging countries.

60 Years of the Loeb-Sourirajan Membrane Hui-Hsin Tseng, Woei Jye Lau, Mohammad A. Al-Ghouti, Liang An, 2022-04-02. *60 Years of the Loeb-Sourirajan Membrane* Principles, New Materials, Modelling, Characterization, and Applications bring forth theoretical advances, novel characterization techniques, materials development, advanced treatment processes, and emerging applications of membrane-based technologies. The trigger for writing this book is the 2020 60th anniversary of the first asymmetric polymeric membrane invented by Dr. Sidney Loeb and Dr. Srinivasa Sourirajan, University of California, Los Angeles, USA, on the breakthrough discovery of the semipermeable membrane for seawater desalination. The

book places emphasis on the advances of organic and inorganic membranes in different fields covering not only the primary application of membranes for water and wastewater treatment but also other applications dealing with energy conversion and storage organic solvent purification gas separation and biomedical processes Provides a comprehensive overview on membrane technologies from the fundamental knowledge of fabrication principle and separation mechanisms to a wide range of applications including new emerging processes Covers the use of new advanced materials both organic and inorganic novel membrane fabrication techniques and cutting edge characterization methods for the development of advanced membranes Includes advances in computational modeling and simulation of membrane processes

Advanced Ceramic Membranes and Applications Chandan Das,Sujoy Bose,2017-08-03 This book provides a balanced blend of fundamental concepts of fabrication characterization of conventional ceramics extending to present the recent advances in ceramic membranes It covers the basic concepts of ceramic membranes as well as practical and theoretical knowledge in conventional and advanced ceramic membranes combined with unorthodox ideas for novel approaches in ceramic membranes Book includes lot of real time examples derived largely from research work by authors Aimed at researchers students and academics in the field of membrane engineering around the globe it has following key features Guides readers through manufacturing characterizing and using low cost ceramic technology Provides an overview of the different types of ceramic membranes catalytic reactors and their uses Covers industrial application separation and purification Includes recent developments and advances in membrane fabrication Discusses new raw materials for ceramic membranes

Advances in Membrane Technologies for Water Treatment Angelo Basile,Alfredo Cassano,Navin Kumar Rastogi,2015-02-28 Advances in Membrane Technologies for Water Treatment Materials Processes and Applications provides a detailed overview of advanced water treatment methods involving membranes which are increasingly seen as effective replacements for a range of conventional water treatment methods The text begins with reviews of novel membrane materials and advances in membrane operations then examines the processes involved with improving membrane performance Final chapters cover the application of membrane technologies for use in water treatment with detailed discussions on municipal wastewater and reuse in the textile and paper industries Provides a detailed overview of advanced water treatment methods involving membranes Coverage includes advancements in membrane materials improvement in membrane performance and their applications in water treatment Discusses the use of membrane technologies in the production of drinking water desalination wastewater treatment and recovery

Proceedings from the Ninth International Zeolite Conference R. Von Ballmoos,2013-10-02 Proceedings from the Ninth International Zeolite Conference Volume I contains the proceedings of the Ninth International Zeolite Conference held in Montreal Canada on July 5 10 1992 The conference provided a forum for reviewing the state of the art in zeolites and tackled topics ranging from advances and perspectives in the synthesis of molecular sieves to Raman spectroscopic studies in zeolite synthesis The

insertion of vanadium in the silicalite framework and the crystallization of aluminophosphate microporous compounds in an alcoholic system are also discussed. Comprised of 71 chapters, this volume first deals with the discovery of a subclass of tectosilicate minerals now known as zeolites, followed by a detailed account of host-guest chemistry and catalysis in zeolites. The reader is then introduced to sodalite supralattices and a high-silica large-pore aluminosilicate zeolite dubbed NCL-1. Subsequent chapters explore zeolite synthesis in ammonia and aqueous ammonia solvents, preparation of zeolite film using cellulose molding, molecular design of layered zirconium phosphonate catalysts, and the effect of hydrogen bonds on the aluminosilicate framework of ammonium natrolite. This book will appeal not only to experts but also to students and researchers entering the field of zeolites.

[Handbook of Membrane Reactors](#) Angelo Basile, 2013-02-08. Membrane reactors are increasingly replacing conventional separation processes and conversion technologies across a wide range of applications. Exploiting advanced membrane materials, they offer enhanced efficiency, are very adaptable, and have great economic potential. There has therefore been increasing interest in membrane reactors from both the scientific and industrial communities, stimulating research and development. The two volumes of the Handbook of Membrane Reactors draw on this research to provide an authoritative review of this important field. Volume 1 explores fundamental materials science, design, and optimisation, beginning with a review of polymeric, dense, metallic, and composite membranes for membrane reactors. In part one, polymeric and nanocomposite membranes for membrane reactors, inorganic membrane reactors for hydrogen production, palladium-based composite membranes, and alternatives to palladium-based membranes for hydrogen separation in membrane reactors are all discussed. Part two goes on to investigate zeolite, ceramic, and carbon membranes and catalysts for membrane reactors in more depth. Finally, part three explores membrane reactor modelling, simulation, and optimisation, including the use of mathematical modelling, computational fluid dynamics, artificial neural networks, and non-equilibrium thermodynamics to analyse varied aspects of membrane reactor design and production enhancement. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of Membrane Reactors provide an authoritative guide for membrane reactor researchers and materials scientists, chemical and biochemical manufacturers, industrial separations and process engineers, and academics in this field. Considers polymeric, dense, metallic, and composite membranes for membrane reactors. Discusses ceramic and carbon for membrane reactors in detail. Reactor modelling, simulation, and optimisation is also discussed.

Ionic and Mixed Conducting Ceramics T. A. Ramanarayanan, Wayne L. Worrell, M. Mogensen, Electrochemical Society, High Temperature Materials Division, 2002.

[Energy Research Abstracts](#), 1995.

Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14. The first guide to compile current research and frontline developments in the science of process intensification. *PI Re-Engineering the Chemical Processing Plant* illustrates the design, integration, and application of PI principles and structures for the development and optimization of chemical and industrial plants. This volume updates professionals on emerging PI equipment.

and methodologies to promote technological advances and operational efficacy in chemical biochemical and engineering environments and presents clear examples illustrating the implementation and application of specific process intensifying equipment and methods in various commercial arenas

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

Solid State Ionics: Materials & Devices, Procs Of The 7th Asian Conf B V R Chowdari, Wenji Wang, 2000-10-27 Solid state ionics being a multidisciplinary area is expected to grow at a faster rate in the new millennium prompting the discovery of new materials and devices as well as helping to optimize the known devices especially the portable power sources and display systems The Asian Society for Solid State Ionics ASSSI plays a significant role in bringing together researchers from the Asian countries every two years to exchange notes and ideas to foster friendship and collaboration and to discuss the prospects The topics covered in this volume are ion dynamics theoretical modeling ion conducting polymers gels and ceramics glasses crystalline materials including nano phases composites electrode electrolyte interfaces and novel experimental techniques Papers on crystalline materials deal with ion conduction in Li Na Ag Tl F and O containing compounds Materials and device aspects have received wide coverage especially the areas of lithium ion batteries LIBs and solid oxide fuel cells SOFCs Rechargeable high energy density LIBs especially those employing immobilized gel or polymer electrolyte are the favorite portable power sources in the new millennium As expected a large number of papers on both cathodes and polymer electrolytes for LIBs were presented at the conference The papers on fuel cells almost exclusively deal with SOFCs indicating the great importance being given to this area in Japan and China A breakthrough in materials and technology of SOFC is expected in the coming decade This volume will be useful not only to the active researchers in the field but also to youngsters entering the exciting area of solid state ionics

Advanced Ceramics for Energy Conversion and Storage Olivier Guillon, 2019-11-20 In order to enable an affordable sustainable fossil free future energy supply research activities on relevant materials and related technologies have been intensified in recent years Advanced Ceramics for Energy Conversion and Storage describes the current state of the art concerning materials properties processes and specific applications Academic and industrial researchers materials scientists and engineers will be able to get a broad overview of the use of ceramics in energy applications while at the same time become acquainted with the most recent developments in the field With chapters written by recognized experts working in their respective fields the book is a valuable reference source covering the following application areas ceramic materials and coatings for gas turbines heat storage and exchange materials for solar thermal energy ceramics for nuclear energy ceramics for energy harvesting thermoelectrics piezoelectrics and sunlight conversion ceramic gas separation membranes solid oxide fuel cells and electrolyzers and electrochemical

storage in battery cells Advanced Ceramics for Energy Conversion and Storage offers a sound base for understanding the complex requirements related to the technological fields and the ceramic materials that make them possible The book is also suitable for people with a solid base in materials science and engineering that want to specialize in ceramics Presents an extensive overview of ceramic materials involved in energy conversion and storage Updates on the tremendous progress that has been achieved in recent years Showcases authors at the forefront of their fields including results from the huge amount of published data Provides a list of requirements for the materials used for each energy technology Includes an evaluation and comparison of materials available including their structure properties and performance

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