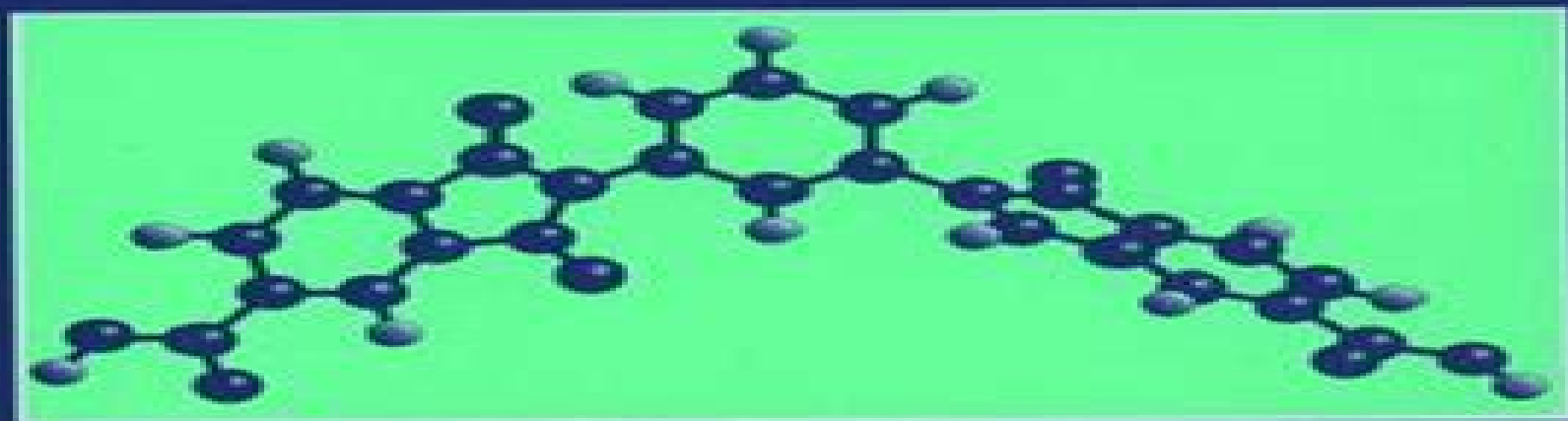


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Polymer Membranes for Gas and Vapor Separation

Chemistry and Materials Science



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B. D. Freeman and I. Pinnau

Polymer Membranes For Gas And Vapor Separation Chemistry And Materials Science

**Andreea Irina Barzic, Neha Kanwar
Rawat, A. K. Haghi**



Polymer Membranes For Gas And Vapor Separation Chemistry And Materials Science:

Materials Science of Membranes for Gas and Vapor Separation Benny Freeman, Yuri Yampolskii, Ingo Pinnau, 2006-05-12 Materials Science of Membranes for Gas and Vapor Separation is a one stop reference for the latest advances in membrane based separation and technology Put together by an international team of contributors and academia the book focuses on the advances in both theoretical and experimental materials science and engineering as well as progress in membrane technology Special attention is given to comparing polymer and inorganic organic separation and other emerging applications such as sensors This book aims to give a balanced treatment of the subject area allowing the reader an excellent overall perspective of new theoretical results that can be applied to advanced materials as well as the separation of polymers The contributions will provide a compact source of relevant and timely information and will be of interest to government industrial and academic polymer chemists chemical engineers and materials scientists as well as an ideal introduction to students

Polymer Membranes for Gas and Vapor Separation Benny D. Freeman, 1999 This book is based on the proceedings of the Chemistry and Materials Science of Synthetic Membranes Symposium in 1997 and includes contributions from scientists working in 18 different countries It focuses on tailoring separation properties and control of porous membrane formation An introductory chapter is followed by 22 articles discussing a range of topics including free volume in polymeric membrane materials facilitated transport membranes group contribution modeling of gas transport in polymeric membranes and Indan containing polymers for gas separation membranes Distributed by Oxford U Press Annotation copyrighted by Book News Inc Portland OR

Imidic Polymers and Green Polymer Chemistry Andreea Irina Barzic, Neha Kanwar Rawat, A. K. Haghi, 2021-03-25 This book reviews the latest research development and future potential of polyimides and green polymer chemistry It combines the major interdisciplinary research in this area Polymers with imidic structure known as polyimides are widely investigated owing to their practical implications in numerous industrial sectors The book explains why polyimides offer versatility unparalleled in comparison to most other classes of macromolecules In addition developments in green polymer chemistry in this area have been stimulated by health and environmental concerns interest in sustainability desire to decrease the dependence on petroleum and opportunities to design and produce green products and processes Major advances include new uses of green processing methodologies and green polymeric products Imidic Polymers and Green Polymer Chemistry New Technology and Developments in Process and Product is targeted to scientists engineers and students who are involved or interested in green polymer chemistry and imidic polymers This book will serve as a valuable reference for those with an interest in synthesis of polyimides and the chemistry and physical chemistry of polyimide compounds

Membrane Materials for Gas and Separation Yuri Yampolskii, E. Finkel'shtein, 2017-01-10 Si containing polymers have been instrumental in the development of membrane gas separation practices since the early 1970s Their function is to provide a selective barrier for different molecular species where selection

takes place either on the basis of size or on the basis of physical interactions or both Combines membrane science organosilicon chemistry polymer science materials science and physical chemistry Only book to consider polymerization chemistry and synthesis of Si containing polymers both glassy and rubbery and their role as membrane materials Membrane operations present environmental benefits such as reduced waste and recovered recycled valuable raw materials that are currently lost to fuel or to flares **Membrane Materials for Gas and Separation** Yuri Yampolskii,E.

FInkelshtein,2017-03-20 Si containing polymers have been instrumental in the development of membrane gas separation practices since the early 1970s Their function is to provide a selective barrier for different molecular species where selection takes place either on the basis of size or on the basis of physical interactions or both Combines membrane science organosilicon chemistry polymer science materials science and physical chemistry Only book to consider polymerization chemistry and synthesis of Si containing polymers both glassy and rubbery and their role as membrane materials Membrane operations present environmental benefits such as reduced waste and recovered recycled valuable raw materials that are currently lost to fuel or to flares Transport Properties of Polymeric Membranes Sabu Thomas,Runcy Wilson,Anil Kumar S,Soney C. George,2017-11-20 Transport Properties of Polymeric Membranes is an edited collection of papers that covers in depth many of the recent technical research accomplishments in transport characteristics through polymers and their applications Using the transport through polymer membranes method leads to high separation efficiency low running costs and simple operating procedures compared to conventional separation methods This book provides grounding in fundamentals and applications to give you all the information you need on using this method This book discusses the different types of polymer their blends composites nanocomposites and their applications in the field of liquid gas and vapor transport Some topics of note include modern trends and applications of polymer nanocomposites in solvent vapor and gas transport fundamentals and measurement techniques for gas and vapor transport in polymers and transport properties of hydrogels This handpicked selection of topics and the combined expertise of contributors from global industry academia government and private research organizations make this book an outstanding reference for anyone involved in the field of polymer membranes Presents current trends in the field of transport of liquid gas and vapor through various polymeric systems Features case studies focused on industrial applications of membrane technology along with fundamentals of transport and materials Helps readers quickly look up a particular technique to learn key points capabilities and drawbacks **Functional Nanostructured Membranes** Enrico Drioli,Lidietta Giorno,Annarosa Gugliuzza,2018-12-07 A membrane is considered the heart of every separation process because it is developed as a nanostructured nanofunctionalized thin barrier that controls the exchange between two phases not only by external forces and under the effect of fluid properties but also through the intrinsic characteristics of the membrane material itself This book compiles cutting edge research in membrane science nanomaterials and nanotechnologies mainly from interdisciplinary research groups at the Institute on Membrane Technology

National Research Council ITM CNR Italy working on membrane design membrane process engineering and selected materials and practices for enhanced transport mass charge and energy It covers topics on the design of new nanostructured membranes with improved properties together with the identification of efficient transport property relationships It shares and strengthens the knowledge of making membrane technology a much more powerful and eco friendly route enabling one to provide prospective solutions and benefits for numerous fields of applications where traditional separation technologies suffer from many deficiencies It is a great reference for researchers and investigators graduate PhD and postgraduate students and end users interested in membrane science and technology nanomaterials eco friendly separation chemistry biology and process engineering

Analytical Chemistry from Laboratory to Process Line Gennady E. Zaikov, A. K. Haghi, 2018-08-06 This book highlights many of the latest developments and trends in engineering chemistry research and describes the respective tools to characterize and predict properties and behavior of materials The book provides original theoretical and important experimental results which use non routine methodologies and presents chapters on novel applications of more familiar experimental techniques and analyses of composite problems which indicate the need for new experimental approaches presented Technical and technological development demands the creation of new materials that are stronger more reliable and more durable i e materials with new properties This volume presents new research that will help lead to new and better materials Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications presented Thus readers will be able to apply the concepts as described in the book to their own experiments Experts in each of the areas covered have reviewed the state of the art thus creating a book that will be useful to readers at all levels in academic industry and research institutions Engineers polymer scientists and technicians will find this volume useful in selecting approaches and techniques applicable to characterizing molecular compositional rheological and thermodynamic properties of elastomers and plastics

Compendium of Hydrogen Energy Velu Subramani, Angelo Basile, T. Nejat Veziroglu, 2015-05-23 Compendium of Hydrogen Energy Hydrogen Production and Purification the first text in a four volume series focuses on the production of hydrogen As many experts believe that the hydrogen economy will eventually replace the fossil fuel economy as our primary source of energy the text provides a timely discussion on this interesting topic The text details the methods of hydrogen production using fossil fuels also exploring sustainable extraction methods of hydrogen production from water and hydrogen purification processes Provides a comprehensive understanding of the current methods used in the production of hydrogen Discusses the hydrogen economy and its potential to replace fossil fuels as our primary source of energy Details the methods of hydrogen production using fossil fuels also exploring sustainable extraction methods of hydrogen production from water and hydrogen purification processes

Nano-Enhanced and Nanostructured Polymer-Based Membranes for Energy Applications Maria Giovanna Buonomenna, 2022-01-22 There is a growing need for better membranes in several emerging application fields

especially those related to energy conversion and storage as well as to water treatment and recycling Processability is an important functional property often ignored especially in the early discovery phase for new materials but it should be one of the most important properties that needs to be considered in the development of better membrane materials Useful membrane materials have to be capable of being formed into thin membranes in particular for membrane gas separation water treatment and desalination and then packaged into large area membrane modules All gas separation membranes that are in current commercial use are based on polymers which are solution processable This book intends to deal with composite in most cases hybrid polymer based membranes for three separate application fields energy conversion energy storage and water treatment and recovery Each chapter will explain clearly the various membrane processes then go on to discuss in detail the corresponding advanced membranes used The logic that lies behind this is that you have to understand the process in order to develop new high performance membranes By taking this approach the author aims to overcome the disconnection that currently exists between membrane materials scientists and industrial process engineers Discusses interdisciplinary content by a single author approaching synthesis and development of materials from the perspective of their processability Describes the novel aspects of membrane science that is related to energy storage conversion and wastewater treatment Presents an emphasis on scientific results which have an impact on real applications in terms of renewable and clean energy challenges

Advanced Materials for Membrane Separations Ingo Pinnau, Benny D. Freeman, 2004 Advanced Materials for Membrane Separations provides new insights to fundamental transport properties fabrication and modification techniques for polymeric and inorganic membranes Recent developments of high performance membranes for various applications are highlighted

Gas Transport in Glassy Polymers Maria Grazia De Angelis, Giulio C. Sarti, 2021-04-22 This Special Issue of Membranes focuses on several new aspects of fluid transport in glassy polymers with application in relevant membrane separations such as gas purification VOC removal and CO₂ capture In particular the focus lies on novel experimental techniques and detailed characterization of specific phenomena like polar and multicomponent interactions during transport The properties of novel materials such as mixed matrix membranes based on glassy polymers and different selective fillers are also presented A critical review of existing modeling approaches to describe the sorption and transport in glassy polymers suitable for membrane separations is provided including both macroscopic and atomistic models and relying both on the standard solution diffusion process and on the facilitated transport mechanism

Encyclopedia of Renewable Energy, Sustainability and the Environment, 2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source

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Macromolecular Engineering, Volume 1 Krzysztof Matyjaszewski, Yves Gnanou, Ludwik Leibler, 2007-04-09. The book provides a state of the art description of the synthetic tools to precisely control various aspects of macromolecular structure including chain composition, microstructure, functionality, and topology, as well as modern characterization techniques at molecular and macroscopic level for various properties of well defined copolymers in solution, bulk, and at surfaces. The book addresses also the correlation of molecular structure with macroscopic properties additionally affected by processing. Finally, some emerging applications for the copolymers are highlighted.

Synthetic Polymeric Membranes for Advanced Water Treatment, Gas Separation, and Energy Sustainability Ahmad Fauzi Ismail, Wan Norharyati Wan Salleh, Norhaniza Yusof, 2020-05-14. Synthetic Polymeric Membranes for Advanced Water Treatment, Gas Separation, and Energy Sustainability is a cutting edge guide that focuses on advanced water treatment applications covering oily wastewater treatment, desalination, removal of dyes and pigments, photodegradation of organic hazardous materials, heavy metal removal, and recovery of nutrients and volatile organic compounds. Other sections examine the area of gas separation including acidic gas removal, oxygen enrichment, gas and vapor separation, hydrogen separation, and gas sensing. Final sections cover applications for sustainable energy usage including the use of synthetic polymer membranes in proton exchange membrane fuel cells (PEMFCs) and more. This is a highly valuable guide for researchers, scientists, and advanced students working with polymer membranes and films and across polymer science, polymer chemistry, materials science, chemical engineering. Explains the design, preparation, and characterization of synthetic polymer based membranes for advanced applications. Provides a clear picture of the state of the art in the field including novel fabrication approaches and the latest advances in physico-chemical characterizations. Supports the development and implementation of innovative sustainable solutions to water treatment, gas separation, and energy devices.

Polymeric Gas Separation Membranes D.R. Paul, 2018-05-04. Polymeric Gas Separation Membranes is an outstanding reference devoted to discussing the separation of gases by membranes. An international team of contributors examines the latest findings of membrane science and practical applications and explores the complete spectrum of relevant topics from fundamentals of gas sorption and diffusion in polymers to vapor separation from air. They also compare membrane processes with other separation technologies. This essential book will be valuable to all practitioners and students in membrane science and technology.

Inverse Gas Chromatography Douglas R. Lloyd, Thomas C. Ward, American Chemical

Society. Division of Polymeric Materials: Science and Engineering, Henry P. Schreiber, Chemical Institute of Canada. Macromolecular Science Division, American Chemical Society. Meeting, 1989 **Ullmann's Encyclopedia of Industrial Chemistry**, 2003 **Science** John Michels (Journalist), 2002 **Membrane Gas Separation** Benny Freeman, Yuri Yampolskii, 2010-09-20 Gas separation membranes offer a number of benefits over other separation technologies and they play an increasingly important role in reducing the environmental impacts and costs of many industrial processes This book describes recent and emerging results in membrane gas separation including highlights of nanoscience and technology novel polymeric and inorganic membrane materials new membrane approaches to solve environmental problems e g greenhouse gases aspects of membrane engineering and recent achievements in industrial gas separation It includes Hyperbranched polyimides amorphous glassy polymers and perfluorinated copolymers Nanocomposite mixed matrix membranes Polymeric magnetic membranes Sequestration of CO₂ to reduce global warming Industrial applications of gas separation Developed from sessions of the most recent International Congress on Membranes and Membrane Processes Membrane Gas Separation gives a snapshot of the current situation and presents both fundamental results and applied achievements

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