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Membrane Engineering for the Treatment of Gases: Volume 1 Enrico Drioli, Giuseppe Barbieri, Adele Brunetti, 2017-10-06
Volume 1 Gas separation issues with membranes volume 2 Gas separation issues combined with membrane reactors **NK**
Cell-Based Cancer Immunotherapy Francisco Borrego, Susana Larrucea, Rafael Solana, Raquel Tarazona, 2016-09-08
Natural killer NK cells are innate lymphoid cells that have a significant role in regulating the defenses against cancer development and certain viral infections They are equipped with an array of activating and inhibitory receptors that stimulate or diminish NK cell activity respectively Inhibitory receptors include among others the MHC class I ligands killer cell immunoglobulin like receptors KIR in humans and members of the Ly49 family of receptors in mice and CD94 NKG2A Activating receptors include cytokine and chemokine receptors and those that interact with ligands expressed on target cells such as the natural cytotoxicity receptors or NCRs NKp30 NKp44 and NKp46 NKG2D CD244 and DNAM 1 In addition NK cells express Fc RIIIA or CD16 the receptor that exerts antibody dependent cell mediated cytotoxicity ADCC NK cells also express the death ligands FasL and TRAIL The killing or sparing of target cells depends on the integration of distinct signals that originate from NK cell receptors NK cells spare healthy cells that express normal levels of MHC class I molecules and low amounts of stress induced self molecules whereas they kill target cells that down regulate MHC class I molecules and or up regulate stress induced self molecules The latter are common signatures of virus infected cells and tumors All the accumulated knowledge on NK cell biology along with many clinical observations is driving multiple efforts to improve the arsenal of NK cell based therapeutic tools in the fight against malignant diseases Indeed NK cell based immunotherapy is becoming a promising approach for the treatment of many cancers It is well known that NK cells have a significant role in the anti tumor effect of therapeutic antibodies that use ADCC as a mechanism of action In addition to this administration of autologous and allogeneic NK cells after activation and expansion ex vivo is used in the treatment of cancer Moreover adoptive transfer of NK cell lines has been tested in humans and genetically modified NK cells expressing chimeric antigen receptors are being studied in preclinical models for potential use in the clinic **Proceedings of the 2nd International Conference of Nanotechnology for Environmental Protection and Clean Energy Production** Smail Hamamda, Abdelmalek Zahaf, Yurii Sementsov, Serhii Nedilko, Kateryna Ivanenko, 2024-06-01 This proceedings book covers the latest research and advancements in nanotechnology for environmental protection and clean energy production It encompasses a wide range of topics including physical chemical nanomaterials science nanoscale physics nanocomposites and nanomaterials applications solids and structures renewable energy nanoparticles and metallic and polymer materials While focusing on scientific advancements this book highlights the practical applications of nanotechnology in environmental protection and clean energy production It bridges the gap between theory and real world implementation making it a valuable resource for researchers students and professionals seeking practical insights and solutions ,

Nanotechnology in the Beverage Industry Abdeltif Amrane, Susai Rajendran, Tuan Anh Nguyen, Aymen Amine Assadi, Ashraf Mahdy Sharoba, 2020-04-20 Nanotechnology in the Beverage industry Fundamentals and Applications looks at how nanotechnology is being used to enhance water quality as well as how the properties of nanomaterials can be used to create different properties in both alcoholic and no alcoholic drinks and enhance the biosafety of both drinks and their packaging This is an important reference for materials scientists engineers food scientists and microbiologists who want to learn more about how nanotechnology is being used to enhance beverage products As active packaging technology nanotechnology can increase shelf life and maintain the quality of beverages In the field of water treatment nanomaterials offer new routes to address challenges Describes the major properties that make nanomaterials good agents for increasing the purification of water and other beverages Outlines major nanoencapsulation techniques for use in a variety of beverage types Discusses the major challenges of using nanomaterials in both beverages and beverage packaging Prevention of the Biological Contamination of Food Thierry Bénézech, Christine Faille, 2024-06-24 This book deals with risk management by focusing on microbiological risks Throughout the food chain foodstuff may be exposed to dangerous agents that can potentially affect its quality and thus the health of consumers A good knowledge of the strategies and means of control implemented along the food chain after the primary production stage is a necessary condition and a prerequisite for any further improvement but it is not sufficient Indeed in order to better prevent and therefore control these risks it is essential to study both the phenomena of surface contamination and those relating to the elimination of this contamination by cleaning and disinfection operations in order to know the main mechanisms Thanks to this a certain number of innovations can already be proposed new surfaces new materials and cleaning and disinfection procedures etc for future developments on an industrial or domestic scale

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Membrane Engineering for the Treatment of Gases Enrico Drioli, Giuseppe Barbieri, Adele Brunetti, 2017-10-06 Elaborating on recent and future developments in the field of membrane engineering Volume 1 focuses on new membrane materials which have recently emerged in gas separation Covering graphene graphene oxide based membranes PIMs thermally rearranged membranes and new mixed matrix membranes alongside membrane pilot plant trials of gas separation such as CO₂ from flue gas and biogas as well as a cost analysis of competitive membrane and hybrid systems this book

provides a comprehensive account Together with Volume 2 these books form an innovative reference work on membrane engineering and technology in the field of gas separation and gaseous phase membrane reactors

Two-Dimensional-Materials-Based Membranes Gongping Liu,Wanqin Jin,2022-08-08 Two Dimensional Materials Based Membranes An authoritative and up to date discussion of two dimensional materials and membranes In Two Dimensional Materials Based Membranes Preparation Characterization and Applications a team of distinguished chemical engineers delivers a comprehensive exploration of the latest advances in design principles synthesis approaches and applications of two dimensional 2D materials like graphene metal organic frameworks MOFs 2D layered double hydroxides and MXene and highlights the significance and development of these membranes In the book the authors discuss the use of membranes to achieve high efficiency separation and to address the challenges posed in the field The book also discusses potential challenges and benefits in the future development of advanced 2D nanostructures as well as their impending implementation in applications in the fields of energy sustainability catalysis electronics and biotechnology Readers will also find A thorough introduction to fabrication methods for 2D materials based membranes including the synthesis of nanosheets membrane structures and fabrication methods Descriptions of three types of 2D materials based membranes single layer membranes laminar membranes and mixed matrix membranes Comprehensive discussions of 2D materials based membranes for water and ions separation solvent water separation and gas separation Explorations of transport mechanism of 2D materials based membranes for molecular separations Perfect for membrane scientists inorganic chemists and materials scientists Two Dimensional Materials Based Membranes will also earn a place in the libraries of chemical and process engineers in industrial environments Commissioner of Patents Annual Report United States. Patent Office,1909

Annual Report of the Commissioner of Patents United States. Patent Office,1909 Prior to 1862 when the Department of Agriculture was established the report on agriculture was prepared and published by the Commissioner of Patents and forms volume or part of volume of his annual reports the first being that of 1840 Cf Checklist of public documents Washington 1895 p 148 **Science and Technology of Separation Membranes** Tadashi Uragami,2017-02-10 Offers a comprehensive

overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells Microporous Materials for Separation Membranes Xiaoqin Zou,Guangshan Zhu,2019-07-09 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

Chemically Derived Graphene Kintao Zhang,2018-05-10 A comprehensive overview of the recent and state of the art research on chemically derived graphene materials for different applications

Annual Report USA Patent Office,1909

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Leaf Optical Properties Stéphane Jacquemoud,Susan Ustin,2019-09-05 Presents state of the art research into leaf interactions with light for scientists working in remote sensing plant physiology ecology and resource management

Clinical Biomechanics in Human Locomotion Andrew Horwood,Nachiappan Chockalingam,2023-04-10 Clinical Biomechanics in Human Locomotion Gait and Pathomechanical Principles explores the clinical management of gait disturbing or gait induced pathologies and biomechanical variances during gait between individuals The book discusses what is required to make terrestrial human locomotion safe and what causes pathology within a context of high locomotive and morphological variability The interaction of genetics epigenetics developmental biology and physiology under the influence of locomotive biomechanics and metabolic energetics drives evolution Such biological pressures on survival are essential in understanding the locomotive biomechanics of modern humans In addition lifestyle including gait speed adaptability established during the growth influences of anatomical development is also considered Links human locomotive biomechanics to medicine physiology evolutionary anatomy and medicine Prepares students bioengineers and clinicians for the reality of utilizing biomechanical principles in clinical practice while also informing researchers of environmental limits Includes further concepts in gait mechanics such as lower limb length gait speed and how to calculate locomotive costs

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