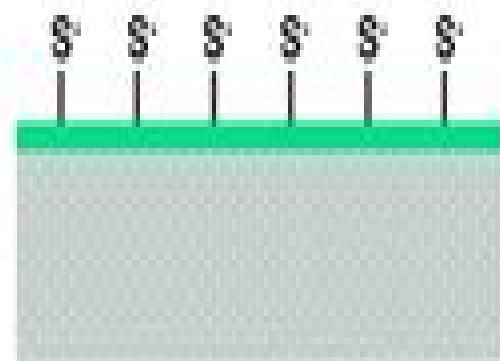
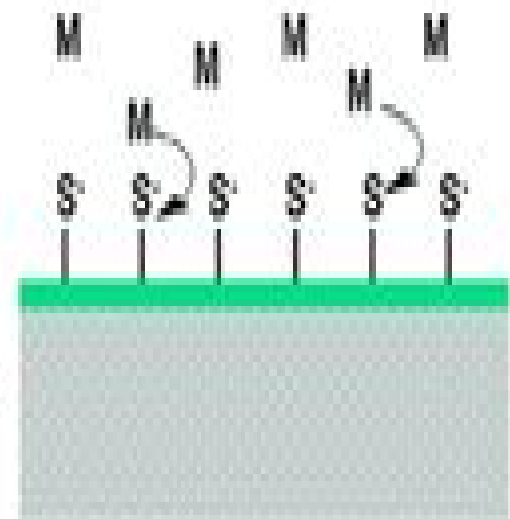


Polyamide RO membrane

H<sub>2</sub> Plasma  
↓



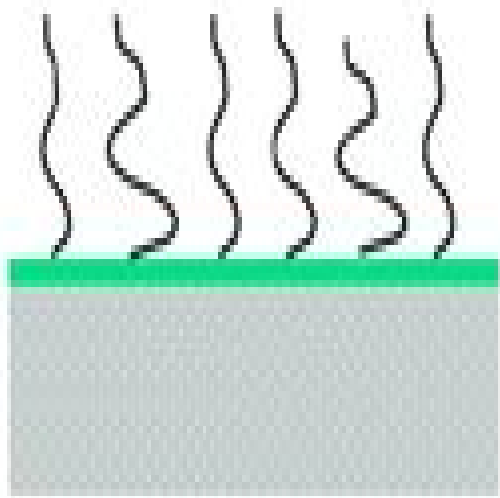
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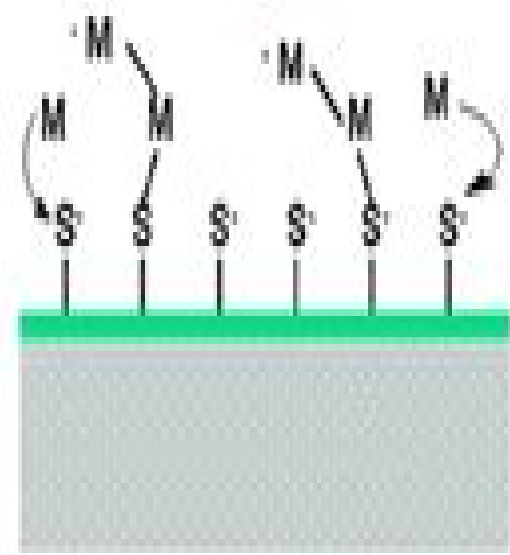
S· = Activated surface site

M = Monomer  
·M = Monomer radical

Grafted monomer chains



←



# Membrane Formation And Modification

**Tadashi Uragami**



## **Membrane Formation And Modification:**

**Membrane Formation and Modification** Ingo Pinnau (ed.), Benny D. Freeman, 2000 Written for polymer chemists and chemical engineers this book focuses on advances in the principal industrial approaches to the preparation of membranes the formation of thin film composite membranes and asymmetric membranes **Membrane Formation and Modification**

, 2000 **Membrane Modification** Nidal Hilal, Mohamed Khayet, Chris J. Wright, 2016-04-19 Membrane Modification Technology and Applications is written for engineers scientists graduate students and researchers in the field of membrane science and technology materials science applied physics chemistry and environmental science The book presents the complete range of membrane modification techniques used to increase efficiency of Advanced Materials for Membrane Fabrication and Modification Stephen Gray, Toshinori Tsuru, Yoram Cohen, Woei-Jye Lau, 2018-08-30 Membranes are an energy efficient separation technology that are now the basis for many water treatment and food processing applications However there is the potential to improve the operating performance of these separations and to extend the application of membranes to energy production gas separations organic solvent based separations and biomedical applications through novel membrane materials This book contains 20 chapters written by leading academic researchers on membrane fabrication and modification techniques and provides a comprehensive overview on the recent developments of membrane technology Membranes can be manufactured from a range of materials including polymeric compounds and ceramic materials and both these materials are considered in the book There are 5 chapters on water and wastewater membranes that cover the fabrication of thin film TFC composite membranes for nanofiltration NF reverse osmosis RO forward osmosis FO applications stimuli responsive membranes electrospun membranes porous ceramic membranes and polymeric ultrafiltration UF manufacture and modification There are another 6 chapters on gas separation that consider carbon membranes zeolite membranes silica template and metal oxide silica membranes TFC membranes silica membranes and metal organic framework MOF membranes Zeolite membranes are also considered for organic solvent applications as are solvent resistant membranes manufactured by phase inversion ceramic supported composite membranes and ceramic NF membranes The emerging areas of membranes for energy and biomedical applications have 3 and 2 chapters respectively Energy applications consider ion exchange membranes for use in fuel cells membranes for electrodialysis and membranes for use in microbial fuel cells For biomedical applications the chapters focus on hemodialysis membranes and redox responsive membranes

**Polymeric Membrane Synthesis, Modification, and Applications** Chandan Das, Kibrom Alebel Gebru, 2018-10-12 Membranes and membrane separation techniques have grown from a simple laboratory tool to an industrial process with considerable technical and commercial impact The book deals with both the fundamental concepts of preparation characterization and modification practical applications along with recent advancements of electro spun and phase inverted polymeric membranes Divided into two parts part one of this book covers the fundamental concepts and practical

applications of novel electro spun membranes while the latter covers basic concepts and further advancements of the conventional phase inverted membranes extensively

**Key Features** Covers fundamental concepts and practical applications of electro spun and phase inverted polymeric membranes Includes general properties characterization preparation and modification of polymeric membranes Discusses advanced modification of polymeric membranes functionalization grafting using phase inversion process and effects of solubility parameter and additives on the phase inversion process Reviews electro spun membranes for biomedical applications industrial effluents treatment and removal of water contaminants Explores a separate economic analysis section for the discussed membranes

*Membrane Distillation* Mohamed Khayet Souhaimi, Takeshi Matsuura, 2011-08-12 Modern membrane engineering is critical to the development of process intensification strategies and to the stimulation of industrial growth Membrane Distillation MD is a broad reference that covers specific information on membranes available and methods for MD membrane preparation and characterization The book offers an introduction to the terminology and fundamental concepts as well as a historical review of MD development Commercial membranes used in MD as well as laboratory made membranes including emerging membranes are described in detail and illustrated by a number of clear and instructive schematic drawings and images A comprehensive review on the development of MD membranes MD modules MD membrane characterization MD configurations applications in different areas and theoretical models Introduction to the terminology and fundamental concepts associated with MD as well as an historical review of MD development Description of commercial membranes used in MD as well as laboratory made membranes including emerging membranes

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

**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

**Membrane and Desalination Technologies** Lawrence K. Wang, Jiaping Paul Chen, Yung-Tse Hung, Nazih K. Shammass, 2010-12-01 In this essential new volume Volume 13 Membrane and Desalination Technologies a panel of expert researchers provide a wealth of information on membrane and desalination technologies An advanced chemical and environmental engineering textbook as well as a comprehensive reference book this volume is of high value to advanced graduate and undergraduate students researchers scientists and designers of water and wastewater treatment systems This is an essential part of the Handbook of Environmental Engineering series an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid Chapters adopt the series format employing methods of practical design and calculation illustrated by numerical examples including pertinent cost data whenever possible and exploring in great detail the fundamental principles of the field Volume 13 Membrane and Desalination Technologies is an essential guide for researchers highlighting the latest developments in principles of membrane technology membrane systems planning and design industrial and municipal waste treatments desalination requirements wastewater reclamation biofiltration and more

**Responsive Membranes and Materials** D. Bhattacharyya, Thomas Schäfer, S. R. Wickramasinghe, Sylvia Daunert, 2012-11-26 The development of new multifunctional membranes and materials which respond to external stimuli such as pH temperature light biochemicals or magnetic or electrical signals represents new approaches to separations reactions or recognitions With multiple cooperative functions responsive membranes and materials have applications which range from biopharmaceutical to drug delivery systems to water treatment This book covers recent advances in the generation and application of responsive materials and includes Development and design of responsive membranes and materials Carbon nanotube membranes Tunable separations reactions and nanoparticle synthesis Responsive membranes for water treatment Pore filled membranes for drug release Biologically inspired responsive materials and hydrogels Biomimetic polymer gels Responsive Membranes and Materials provides a cutting edge resource for researchers and scientists in membrane science and technology as well as specialists in separations biomaterials bionanotechnology drug delivery polymers and functional materials

**Nanostructured Polymer Membranes, Volume 1** Visakh P. M., Olga B. Nazarenko, 2016-11-11 This book is intended to serve as a one stop reference resource for important

research accomplishments in the area of nanostructured polymer membranes and their processing and characterizations It will be a very valuable reference source for university and college faculties professionals post doctoral research fellows senior graduate students and researchers from R D laboratories working in the area of polymer nanobased membranes The various chapters are contributed by prominent researchers from industry academia and government private research laboratories across the globe and comprise an up to date record on the major findings and observations in the field

*Performance Modification Via Membrane Stretching* Douglas R. Lloyd, 2006 The hypothesis of this research was that by stretching microfiltration or ultrafiltration membranes their performance in terms of flux and rejection could be improved Stretching a membrane was envisioned to stretch its pores or change the aspect ratio of the pores It was thought that changing the aspect ratio could lead to improved flux by increasing the pore area while also improving the rejection of particles by decreasing the length of the minor axis The objective of this research was to study the effects of uniaxial stretching of microporous membranes and thereby change the aspect ratio on their performance measured in terms of flux and particle rejection

**Current Trends and Future Developments on (Bio-) Membranes** Angelo Basile, Sylwia Mozia, Raffaele Molinari, 2018-06-15 *Current Trends and Future Developments on Bio Membranes Photocatalytic Membranes and Photocatalytic Membrane Reactors* offers a comprehensive review on the state of the art in the area of PMs and PMRs The book gives an overview of the basis of photocatalysis and membrane separation and the basic aspects of photocatalytic membranes and photocatalytic membrane reactors along with their applications modeling and the economic aspects of PMs and PMRs The book addresses the main issues associated with PMRs design and tries to predict how long it will be before laboratory scale models can be scaled to the PMR industry Reviews new hybrid separation techniques based on photocatalysis and membranes Offers a detailed description of the various photocatalytic membrane reactors and their function Includes new membrane based separation techniques for the removal of emerging contaminants from water such as pharmaceutical and personal care products Discusses numerous reactor configurations and various membrane materials for photocatalytic membranes Includes the modeling and economic aspects of various processes

**Membrane Distillation** Kang-Jia Lu, Tai-Shung Chung, 2019-10-28 This book aims to elaborate the basics and recent advances of membrane distillation MD as the same shows promise for seawater desalination and wastewater treatment Starting with fundamentals of MD processes including the heat and mass transfer analysis energy evaluation and mathematical modelling text includes engineering and molecular design of MD membranes Various types of hybrid systems including freeze desalination FD MD MD crystallization MDC pressure retarded osmosis PRO MD and forward osmosis FO MD will be discussed in this book Further it summarizes the future of MD from both industrial and academic perspectives along with energy sources and economic analysis

**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

**Surface Treatments for Biological, Chemical and Physical Applications** Mehmet Gürsoy, Mustafa Karaman, 2017-04-10 A step by step guide to the topic with a mix of theory and practice in the fields of biology chemistry and physics Straightforward and well structured the first chapter introduces fundamental aspects of surface treatments after which examples from nature are given Subsequent chapters discuss various methods to surface modification including chemical and physical approaches followed by the characterization of the functionalized surfaces Applications discussed include the lotus effect diffusion barriers enzyme immobilization and catalysis Finally the book concludes with a look at future technology advances Throughout the text tutorials and case studies are used for training purposes to grant a deeper understanding of the topic resulting in an essential reference for students as well as for experienced engineers in R D

**Handbook of Membrane Separations** Anil K. Pabby, S. Ranil Wickramasinghe, Ana-Maria Sastre, 2023-12-22 The third edition of the Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications provides a comprehensive discussion of membrane applications Fully updated to include the latest advancements in membrane science and technology it is a one of its kind overview of the existing literature This fully illustrated handbook is written by experts and professionals in membrane applications from around the world Key Features Includes entirely new chapters on organic solvent resistant nanofiltration membrane condensers membrane reactors in hydrogen production membrane materials for haemodialysis and integrated membrane distillation Covers the full spectrum of membrane technology and its advancements Explores membrane applications in a range of fields from biotechnological and food processing to industrial waste management and environmental engineering This book will appeal to both newcomers to membrane science as well as engineers and scientists looking to expand their knowledge on upcoming advancements in the field

**Membrane Technology** Suzana Pereira Nunes, Klaus-Viktor Peinemann, 2006-12-13 Membrane Technology a clean and energy saving alternative to traditional conventional processes Developed from a useful laboratory technique to a commercial separation technology today it has widespread and rapidly expanding use in the chemical industry It has established applications in areas such as hydrogen separation and recovery of organic vapors from process gas streams and selective transport of organic solvents and it is opening new perspectives for catalytic conversion in membrane

reactors Membrane technology provides a unique solution for industrial waste treatment and for controlled production of valuable chemicals This book outlines several established applications of membranes in the chemical industry reviews the available membranes and membrane processes for the field and discusses the huge potential of this technology in chemical processes Each chapter has been written by an international leading expert with extensive industrial experience in the field

*Membrane Technologies and Applications* Kaustubha Mohanty, Mihir K. Purkait, 2011-12-19 Membrane technologies play an increasingly important role in unit operations for resource recovery pollution prevention and energy production as well as environmental monitoring and quality control They are also key component technologies of fuel cells and bioseparation applications Membrane Technologies and Applications provides essential data and background information on various dimensions of membrane technologies with a major focus on their practical application Membranes of inorganic materials offer cost effective solutions for simple to complex separation problems This book is designed for anyone interested in water and wastewater treatment membrane suppliers as well as students and academics studying the field

*Hydrogen and Low-Carbon Fuels in Circular Bio-economy* Valerio Paolini, Francesco Petracchini, 2025-07-14 This book explains how decarbonisation of transport connects to the wider project of making more sustainable and circular society Emissions reduction in the transportation sector has become a critical challenge for both mitigating climate change and reducing diseases due to air pollution However transport decarbonization is also strongly connected to the urgent need of an increased resource efficiency and a transition towards a more sustainable bio based and circular society This book describing the technology and the potential application of hydrogen and low carbon fuels In the first section it lays out the general principles and assessment methodologies including the evaluation of local and global impacts from an environmental economic and social perspective Subsequently the second section describes the technology to produce sustainable fuels including electrolytic hydrogen and electro methane bio hydrogen gaseous and liquid biofuels Finally in the book s last section specific case studies are provided including urban and long range wheel transport as well as rail navigation and airplane applications



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