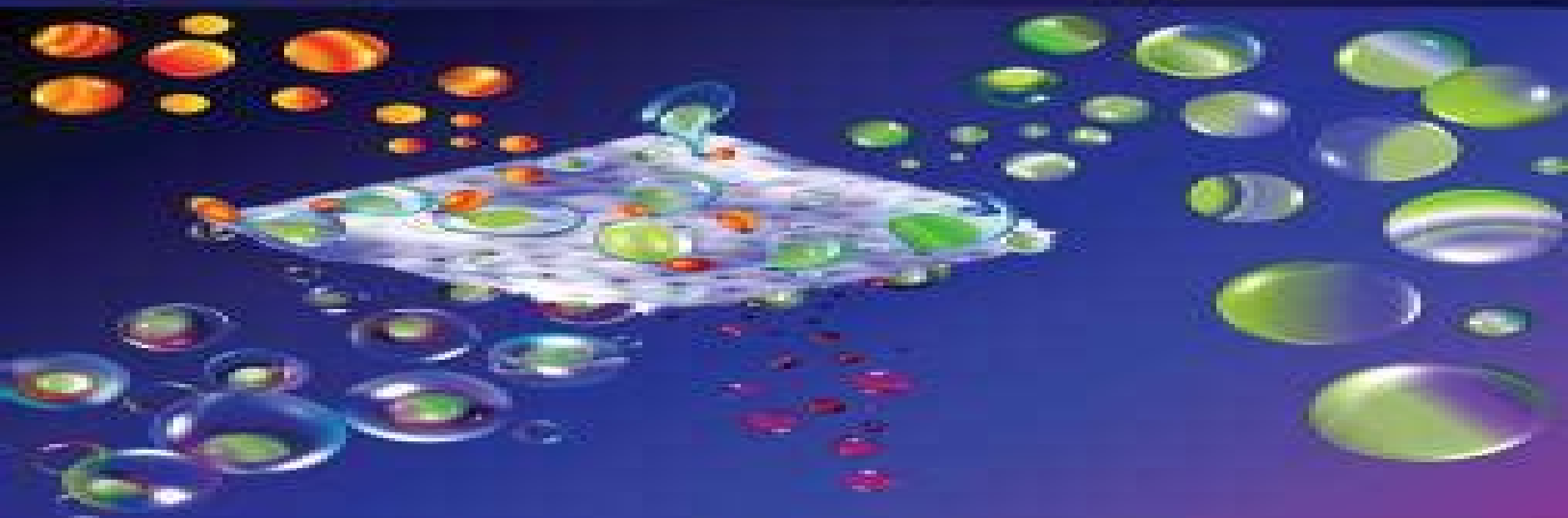


SMART MEMBRANES AND SENSORS

Synthesis, Characterization, and Applications



Edited by Annarosa Gugliuzza

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Smart Membranes and Sensors Annarosa Gugliuzza, 2014-09-19 This book addresses the reader to use synergistically the concepts of membranes and sensors materials. It contains insightful contributions from leading scientists working in both the fields. The focus is on the fabrication of smart membranes from sensor materials and related impact on many technologically sophisticated areas such as telemedicine, microfluidics, drug delivery, targeting, bio separation, labs on a chip, textiles, power storage and release, environment monitoring, agro food safety, cosmetics, architecture, automotive and so on. This book covers various topics including the choice of materials and techniques for assembling responsive membranes with ability to transport mass, energy and signals on demand. The reader will find through the book an extensive description of the best techniques used to monitor molecular scale events which are regarded as responsible for the smartness of multifunctional objects and for the conversion of chemical signals into optical, electrical, thermal and mechanical responses. The reader is encouraged to use this cross disciplinary discussion for his own research. Chemical, biological and physical concepts expressed through the book contribute to form a common language which will allow the reader to discover causes for reflection and innovation, measuring how smart objects with desired properties can be tailored from existing materials and used flexibly for different developed applications. Specifically, This book deals with materials smartness and suitable techniques to assemble and characterize them in sensor like membranes. This book shows how ultra smart functional devices can be accomplished by using traditional raw materials. This book describes particular key events which control sense to react and adapt mechanisms. The potential of sensor like membranes in some key strategic fields is examined with particular emphasis on biomedicine, food and textiles markets. The benefits arising from the use of smart membranes are analysed in terms of life quality, safety and innovation.

Porous Membranes Annarosa Gugliuzza, Wanqin Jin, 2025-06-25 The book is essential for anyone seeking a deep understanding of porous membranes as it offers valuable insights into manufacturing methods, innovative applications and strategies for optimizing membrane design to meet critical project demands across various fields. *Porous Membranes Breakthroughs in Manufacturing and Applications* is a comprehensive guide to discovering the world of porous membranes and their applications. This volume gives a global perspective of basic concepts featuring manufacturing approaches and potential applications where control of pore size and shape and distribution can be decisive for the success of a membrane process. In depth explanations elaborate on the key role assigned to a membrane's pores in directing events that are crucial for the mandatory targets imposed by a project's requirements. Further discussions on how to manage and characterize materials from a molecular to macro scale to achieve highly defined architecture to enable high performing separations are explored. Advances and innovation are central themes providing useful solutions to current critical aspects and existing bottlenecks in the control of structural and chemical features of targeted membranes. This cross disciplinary discussion opens new routes for membrane science in expanding fields including water management.

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Imprinted Polymeric Membranes Laura Donato, 2023-07-04 Highly efficient separation tools are increasingly required for satisfying the necessity of the modern society In this context for achieving optimized separation and purification of targeted compounds the typical features of the imprinting technology and membrane science for developing the so called imprinted membranes have been exploited Imprinted membranes are smart systems endowing selective recognition properties towards specific molecules and ions that exhibit better performance with respect to the traditional separation techniques The aim of this monography is to give a contribution in promoting the knowledge on the current research trend about this topic Starting from the concept of the molecular recognition the book introduces the reader to the fascinating world of the imprinting technology and membrane based processes up to discussing the development of imprinted polymers as well as imprinted membranes which represent their special format The different imprinting strategies as well as the theory and mechanisms of the separation are also explained Furthermore the application of molecularly imprinted polymeric membranes in different areas for the selective recognition of drugs active pharmaceutical ingredients pesticides other toxic compounds and proteins is discussed The attention is also devoted to their employment in enantiomeric separation sensors technology and controlled drug delivery Finally the production and application of ion imprinted membranes in the separation of metal ions rare earth element and anions and the role of cyclodextrins in the imprinting technology are discussed

Fundamentals of Biophysics Andrey B. Rubin, 2014-10-06 Biophysics is a science that comprises theoretical plotting and models based on contemporary physicochemical conceptions They mirror physical specificity of the molecular organization and elementary processes in living organisms which in their turn form the molecular basis of biological phenomena Presentation of a complete course in biophysics requires vast biological material as well as additional involvement of state of the art concepts in physics chemistry and mathematics This is essential for the students to perceive the specific nature and peculiarity of molecular biological processes and see how this specificity is displayed in biological systems This is the essence of the up to date biophysical approach to the analysis of biological processes Fundamentals of Biophysics offers a complete thorough coverage of the material in a straightforward and no nonsense

format offering a new and unique approach to the material that presents the appropriate topics without extraneous and unneeded filler material

Smart Nanosensors Imran Uddin, 2025-04-21 This book serves as a comprehensive compilation of contemporary research conducted in the domain of nanosensors. The amalgamation of many elements within the emerging field contributes to the development of a useful collection specifically designed for inexperienced researchers in the domain of smart materials and nanosensor technologies. An adequate range of subjects has been incorporated into the present book. It includes enzyme mimetic use of smart nanomaterials for enhanced biosensing applications, theranostic utilization of smart nanomaterials for targeted drug delivery, sensors for pollutant detection, and the utilization of smart nanomaterials in the development of biosensors for studying host-microbe interactions. Nanosensors have emerged as a promising avenue for various applications including sensing in the fields of medicine, packaging, and heavy metal ion detection. Recent developments in the field of smart nanomaterials have led to significant advancements in the application of intelligent switches and sensors within the domains of agriculture, food production, and water treatment. The primary emphasis of this book is the study of the synthesis and fabrication processes involved in the production of smart materials together with their application within the domain of sensor technology. The existing body of literature has two main categories: introductory textbooks that provide fundamental knowledge about the field and specialized publications that focus exclusively on certain subtopics within the domain of sensor technology. The existing material of the book makes it a complete reference resource that is well suited for researchers in the area. It especially caters to advanced graduate students who are seeking senior graduate M.Tech and MS degrees in the subject of sensor technology. Additionally, this publication would function as an essential resource for researchers across diverse disciplines within the area of materials science who are aiming to propel the development of smart materials.

Seven Years of Membranes: Feature Paper 2017 Spas D. Kolev, 2018-08-09 This book is a printed edition of the Special Issue Seven Years of Membranes Feature Paper 2017 that was published in Membranes.

Smart Materials for Waste Water Applications Ajay Kumar Mishra, 2016-02-10 Smart materials are used to develop more cost-effective and high-performance water treatment systems as well as instant and continuous ways to monitor water quality. Smart materials in water research have been extensively utilized for the treatment, remediation, and pollution prevention. Smart materials can maintain the long-term water quality availability and viability of water resource. Thus, water via smart materials can be reused, recycled, desalinated, and also it can detect the biological and chemical contamination, whether the source is from municipal, industrial, or man-made waste. The 15 state-of-the-art review chapters contained in this book cover the recent advancements in the area of waste water as well as the prospects about the future research and development of smart materials for the waste water applications in the municipal, industrial, and man-made waste areas. Treatment techniques: nanofiltration, ultrafiltration, reverse osmosis, adsorption, and nano-reactive membranes are also covered in depth. The chapters are divided into three groups. The first section includes the various carbon nanomaterials such as carbon nanotubes.

mixed oxides with a focus on use of carbon at nanoscale applied for waste water research The second section focuses on synthetic nanomaterials for pollutants removal The third section highlights the bio polymeric nanomaterials where the authors have used the natural polymers matrices in a composite and nanocomposite material for waste treatment The large number of researchers working in the area will benefit from the fundamental concepts advanced approaches and application of the various smart materials towards waste water treatment that are described in the book It will also provide a platform for the researchers and graduate students to carry out advanced research and understand the building blocks

Nanostructured Polymer Membranes, Volume 2 Visakh P. M., Olga B. Nazarenko, 2016-08-26 The 2nd volume on applications with discuss the various aspects of state of the art new challenges and opportunities for gas and vapor separation of polymer membranes membranes for wastewater treatment polymer electrolyte membranes and methanol fuel cells polymer membranes for water desalination optical electrochemical and anion polyanion sensors polymeric pervaporation membranes organic organic separation biopolymer electrolytes for energy devices carbon nanoparticles for pervaporation polymeric membranes and mixed matrix membranes for nanofiltration application Application of Nanotechnology in Membranes for Water Treatment Alberto Figoli, Jan Hoinkis, Sacide Alsoy Altinkaya, Jochen Bundschuh, 2017-07-14 The book focuses on Application of Nanotechnology in Membranes for Water Treatment but not only provides a series of innovative solutions for water reclamation through advanced membrane technology but also serves as a medium to promote international cooperation and networking for the development of advanced membrane technology for Universal well being and to achieve the common goal of supplying economically environmentally and societally sustainable freshwater and better sanitation systems This book is unique because the chapters were authored by established researchers all around the globe based on their recent research findings In addition this book provides a holistic coverage of membrane development for water treatment from the membrane preparation and characterizations to the performance for specific processes and applications Since that water scarcity has become a global risk and one of the most serious challenges for the scientific community in this century the publication of this book is therefore significant as it will serve as a medium for a good reference of an alternative solution in water reclamation This book will provide the readers with a thorough understanding of the different available approaches for manufacturing membranes both with innovative polymeric systems and inorganic nano materials which could give enhanced functionalities catalytic and antimicrobial activities to improve the performance of the existing membranes It will be useful for leading decision and policy makers water sector representatives and administrators policy makers from the governments business leaders business houses in water treatment and engineers scientists from both industrialized and developing countries as well **Smart Polymers** Igor Galaev, Bo Mattiasson, 2007-07-25 The first book to tackle the application of smart polymers in bioseparation and bioprocessing Smart Polymers Applications in Biotechnology and Biomedicine broke new ground in this challenging field Completely revised

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