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ENGINEERED NANOPORES FOR BIOANALYTICAL APPLICATIONS

Micro & Nano Technologies Series

Engineered Nanopores For Bioanalytical Applications

**Vishnu D. Rajput, Abhishek
Singh, Tatiana M. Minkina, Krishan K.
Verma, Awani Kumar Singh**



Engineered Nanopores For Bioanalytical Applications:

Engineered Nanopores for Bioanalytical Applications Joshua B. Edel, Tim Albrecht, 2013-03-19 Engineered Nanopores for Bioanalytical Applications is the first book to focus primarily on practical analytical applications of nanopore development. These nanoscale analytical techniques have exciting potential because they can be used in applications such as DNA sequencing, DNA fragment sizing, DNA-protein binding, and protein-protein binding. This book provides a solid professional reference on nanopores for readers in academia, industry, and engineering and biomedical fields. In addition, the book describes the instrumentation, fabrication, and experimental methods necessary to carry out nanopore-based experiments for developing new devices. Includes application case studies for detection, identification, and analysis of biomolecules and related functional nanomaterials. Introduces the techniques of manufacturing solid-state materials with functional nanopores. Explains the use of nanopores in DNA sequencing and the wider range of applications from environmental monitoring to forensics.

Nanopores for Bioanalytical Applications Joshua Edel, Tim Albrecht, 2012-09-05 Bioanalytical applications in nanopores are an exciting field of research which have seen rapid development over the last ten-plus years. This book focuses uniquely on this research area, providing an insight from the world-leading experts in the area. Based on the proceedings of the 1st International Conference on Nanopores for Bioanalytical Applications, Lanzarote 2012, it will provide a snapshot of this exciting field for the nanopores community. It describes the latest experimental and fabrication protocols necessary to carry out nanopore-based experiments and covers a wide variety of topics. These include biological pores, solid-state pores, hybrid structures, fundamental aspects, work on the underlying bio-physics, and applications in biosensing and DNA sequencing. The multidisciplinary approach to this topic makes the book suitable for readers in both academia and industry.

Confining Electrochemistry to Nanopores Yi-Tao Long, 2020-10-26 The nanopore provides a highly electrochemically confined space within which single-molecule characteristics can be efficiently converted into measurable electrochemical signatures with high temporal and current resolution. Aimed at developing the concept of the electrochemically confined space in analysing single molecules, this book serves as a stepping stone to many exciting discoveries in nanopore-based analysis of biological processes and chemical reactions in confined space. The field of nanopore sensors is growing rapidly, but there have been no new books on nanopore technology that provide an overview of the research on nanopore-based sensing until now. The book provides a good source of nanopore studies for researchers interested in and working in the general areas of electrochemistry and nanobiotechnology, especially on nanopore sensors.

Nanotechnology for Sustainable Agriculture Vishnu D. Rajput, Abhishek Singh, Tatiana M. Minkina, Krishan K. Verma, Awani Kumar Singh, 2023-09-08 This new volume explores the important and cutting-edge roles that nanotechnology can play in facilitating sustainable agriculture. It provides recent updates on nanobiotechnology in soil science, plant breeding, food science, agricultural tool design and utilization, as well as the impacts of

such approaches on properties of soils and plants The book looks at the use of nanotechnology for crop production and protection in the creation and application of pesticides to enhance soil fertility and soil health as a mitigating factor of plant abiotic stress and more The volume explores emerging nanotechnological tools and techniques for crop improvement that include space inspired speed breeding for crop improvement nanoparticles as sensing materials plant nanobionics nanopore DNA sequencing and more

Single Molecule and Single Cell Sequencing Yutaka Suzuki, 2019-04-09 This book presents an overview of the recent technologies in single molecule and single cell sequencing These sequencing technologies are revolutionizing the way of the genomic studies and the understanding of complex biological systems The PacBio sequencer has enabled extremely long read sequencing and the MinION sequencer has made the sequencing possible in developing countries New developments and technologies are constantly emerging which will further expand sequencing applications In parallel single cell sequencing technologies are rapidly becoming a popular platform This volume presents not only an updated overview of these technologies but also of the related developments in bioinformatics Without powerful bioinformatics software where rapid progress is taking place these new technologies will not realize their full potential All the contributors to this volume have been involved in the development of these technologies and software and have also made significant progress on their applications This book is intended to be of interest to a wide audience ranging from genome researchers to basic molecular biologists and clinicians

Handbook of Silicon Based MEMS Materials and Technologies Markku Tili, Mervi Paulasto-Kröckel, Teruaki Motooka, Veikko Lindroos, 2015-09-02 The Handbook of Silicon Based MEMS Materials and Technologies Second Edition is a comprehensive guide to MEMS materials technologies and manufacturing that examines the state of the art with a particular emphasis on silicon as the most important starting material used in MEMS The book explains the fundamentals properties mechanical electrostatic optical etc materials selection preparation manufacturing processing system integration measurement and materials characterization techniques sensors and multi scale modeling methods of MEMS structures silicon crystals and wafers also covering micromachining technologies in MEMS and encapsulation of MEMS components Furthermore it provides vital packaging technologies and process knowledge for silicon direct bonding anodic bonding glass frit bonding and related techniques shows how to protect devices from the environment and provides tactics to decrease package size for a dramatic reduction in costs Provides vital packaging technologies and process knowledge for silicon direct bonding anodic bonding glass frit bonding and related techniques Shows how to protect devices from the environment and decrease package size for a dramatic reduction in packaging costs Discusses properties preparation and growth of silicon crystals and wafers Explains the many properties mechanical electrostatic optical etc manufacturing processing measuring including focused beam techniques and multiscale modeling methods of MEMS structures Geared towards practical applications rather than theory

Nanofluidics Joshua Edel, Aleksandar Ivanov, MinJun Kim, 2016-11-11 There has been significant growth in the field of nanofluidics where

nanoscale analytical instruments employ micromachined features and are able to manipulate fluid samples with high precision and efficiency and have many advantages over their conventional larger analogues The new edition of Nanofluidics has been fully revised and updated with the latest advancements and applications With a focus on bioanalysis specific applications are given with case studies The end of each chapter now also features a methodology section to explain experimental protocols and tips and tricks The editors draw on an international authorship and provide a handbook for the community Written at an accessible level the book is suitable for both experts and non experts alike

Lipid-Based Nanocarriers for Drug Delivery and Diagnosis Muhammad Raza Shah, Muhammad Imran, Shafi Ullah, 2017-06-07 Lipid Based Nanocarriers for Drug Delivery and Diagnosis explores the present state of widely used lipid based nanoparticulate delivery systems such as solid lipid nanoparticles SLN nanostructured lipid carriers NLC nanoliposomes micelles nanoemulsions nanosuspensions and lipid nanotubes The various types of lipids that can be exploited for drug delivery and their chemical composition and physicochemical characteristics are reviewed in detail along with their characterization aspects and effects of their dimensions on drug delivery systems behavior in vitro and in vivo The book covers the effective utilization of these lipids based systems for controlled and targeted delivery of potential drugs genes for enhanced clinical efficacy Provides the present state of widely used lipid based nanoparticulate delivery systems Explores how lipid based nanocarriers improve drug delivery safety Describes the nanoformulation design and the preparation methods of lipid based nanocarriers

Chemically Modified Nanopores and Nanochannels Mario Tagliazucchi, Igal Szleifer, 2016-08-29 Chemically Modified Nanopores and Nanochannels is devoted to chemically modified nanopores and nanochannels and covers the fundamentals of transport in chemically modified systems an account of the different preparation and characterization techniques of chemically modified nanopores their applications and case studies The book is designed for materials and biomaterials scientists biomedical engineers chemists and chemical engineers who are interested in designing and utilizing processes to synthesize modify characterize use and model nanopores The strong chemical focus of the book differentiates it from other books published on nanopores which traditionally focus either on physics biophysics and nanofabrication solid state nanopores or biophysics and biology biological ion channels and pores Explains how the chemical modification of nanopores and nanochannels can be used in filtration membranes and sensing Provides advanced coverage of novel synthetic applications Focuses on the latest developments in nanopore and nanochannel engineering Presents an account of the different preparation and characterization techniques of chemically modified nanopores their applications and case studies

Nucleic Acid Nanotechnology Jørgen Kjems, Elena Ferapontova, Kurt V. Gothelf, 2013-10-19 This volume on nucleic acid nanotechnology offers authoritative up to date and comprehensive coverage of nanotechnological studies and applications of nucleic acids It provides reviews of various aspects of nucleic acid nanotechnology each written by an internationally leading expert in the field and presents state of the art and recent advances in nucleic acid synthetic modifications nanoscale design

manipulation and current and future applications in bioengineering medicine electronics genetic analysis chemistry molecular biology surface and material sciences It examines how nucleic acid research is merging with nanotechnology allowing the nanoscale properties of nucleic acid to be exploited in performing challenging nanotechnological tasks from nanorobotics and nanosensing to nucleic acid computing This book will above all benefit anyone who is interested in nanotechnological concepts of nucleic acid design and applications and offers a valuable resource for teaching these concepts It is essential reading for a broad audience of scientists both in academia and industry who wish to expand their expertise on the potential of nucleic acid functions and applications *Molecular- and Nano-Tubes* Oliver Hayden,Kornelius Nielsch,2011-08-04 Molecular and Nano Tubes summarizes recent advancements in the synthesis fabrication and applications of tubular structures An interdisciplinary overview of innovative science focused on tubular structures is provided The reader is offered an overview of the different fields that molecular and nano tubes appear in in order to learn the fundamental basics as well as the applications of these materials This book also Shows how nanotechnology creates novel materials by crossing the barriers between biology and material science electronics and optics medicine and more Demonstrates that tubes are a fundamental element in nature and used in disparate applications such as ion channels and carbon nanotubes Molecular and Nano Tubes is an ideal volume for researchers and engineers working in materials science and nanotechnology Single Particle Studies on an Integrated Nanopore-optofluidic Chip Mikhail Rudenko,2010

BioNanoFluidic MEMS Peter J. Hesketh,2007-11-15 BioNanoFluidic MEMS explains biosensor development fundamentals and initiates an awareness in engineers and scientists who would like to develop and implement novel biosensors for agriculture biomedicine home land security environmental needs and disease identification In addition the material covered in this book introduces and lays the basic foundation for design fabrication testing and implementation of next generation biosensors through hands on learning Handbook of Material Engineering in Nanobiomedicine and Diagnostics Uday Pratap Azad,Pranjal Chandra,2025-03-10 The book is about the application of nanotechnology in the field of medicine with a focus on diagnosis and therapy The first few chapters introduce the basics of material engineering and nanobiomedicine followed by chapters on different types of engineered nanomaterials and their surface modification strategies for biomedicine The book then covers the application of nanobiomedicines and nanodiagnosics in clinical settings and how functionalized nanomaterials can be used in microfluidic biosensors and diagnosis devices The latter half of the book discusses various nanobiomaterials used in cancer diagnosis and therapy as well as regenerative medicine infectious diseases and bioimaging The book concludes with a chapter on the commercial aspects of nanobiomedicines Nanobiotechnology Christof M. Niemeyer,Chad A. Mirkin,2006-03-06 Nanotechnology is the key technology of the 21st century The possibility to exploit the structures and processes of biomolecules for novel functional materials biosensors bioelectronics and medical applications has created the rapidly growing field of nanobiotechnology Designed as a broad survey of the field this book combines

contributions from bioorganic and bioinorganic chemistry molecular biology materials science and bioanalytics to fathom the full scope of current and future developments It is divided into four main sections Interphase Systems Protein based Nanostructures DNA based Nanostructures Nanoanalytics Each chapter describes in detail currently available methods and contains numerous references to the primary literature making this the perfect field guide for chemists biologists and materials scientists who want to explore the fascinating world of nanobiotechnology

Integrating Biologically-Inspired Nanotechnology into Medical Practice Nayak, B.K., Nanda, Anima, Bhat, M. Amin, 2016-09-07 Nanotechnology has grown in its use and adoption across sectors In particular the medical field has identified the vast opportunities nanotechnology presents especially for earlier disease detection and diagnosis versus traditional methods Integrating Biologically Inspired Nanotechnology into Medical Practice presents the latest research on nanobiotechnology and its application as a real world healthcare solution Emphasizing applications of micro scale technologies in the areas of oncology food science and pharmacology this reference publication is an essential resource for medical professionals researchers chemists and graduate level students in the medical and pharmaceutical sciences

Sustainable Use of Water Resources Müfit Bahadır, 2017-01-27 According to the Sustainable Development Goals SDGs water is the limiting agent in sustainable development and is critical to all socio economic aspects of human welfare including security energy food and health issues It is essential for the production and preservation of foodstuff is a host of benefits and services for people and plays a key role in strengthening the resilience of social economic and environmental systems in the light of rapid and unpredictable changes However water can also pose serious challenges to sustainable development if not managed efficiently and equitably In the past many water related workshops and conferences have been held all over the world however the here reported one is the first expert workshop integrating social economic and engineering scientists practitioners and policy makers in the field of sustainable water management in Sub Saharan Africa region In addition the subject of the workshop Sustainable Use of Water Resources addresses the challenges outlined in the Kenyan Vision 2030 programs Additionally Africa's rising population is the driving force of the demand for water and accelerates the degradation of water resources in many countries on the continent Current research has projected that almost all African countries will face either absolute or economic water scarcity by 2025 The main objective of the workshop was to share experiences knowledge and research outcomes among experts of water and environment and to discuss major problems and challenges in the field of sustainable water management in Sub Saharan Africa Region It also aimed i to improve the understandings of the interrelationship between SDGs and the Integrated Water Resources Management IWRM to identify the current trends in water management practices and their shortcomings iii to establish a Sub Saharan Africa Network of water experts and iv to identify promising areas of future research for the Sub Saharan Africa Region

Science John Michels (Journalist), 2012

Polymer Brushes for Bioanalytical Applications Jesper Medin, 2025

Nanopores Samir M. Iqbal, Rashid Bashir, 2011-07-12 Nanopores are

nanometer scale holes formed naturally by proteins or cells and can be used for a variety of applications including sequencing DNA and detecting anthrax. They can be integrated into artificially constructed encapsulated cells of silicon wafers while allowing small molecules like oxygen, glucose, and insulin to pass while keeping out large system molecules. Nanopores: Sensing and Fundamental Biological Interactions examines the emerging research directions surrounding nanopores such as genome sequencing and early disease detection using biomarker identification. Covering the applications of nanopores in genetics, proteomics, drug discovery, early disease detection, and detection of emerging environmental threats, it is a must-have book for biomedical engineers and research scientists.

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