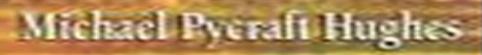
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<u>Mikroelektronische Module zur adaptiven Bakteriensortierung</u> Felix Hirschberg,2025-07-15 Die vorliegende Arbeit beschreibt ein neuartiges Konzept zur Sortierung von Bakterienzellen fur bioanalytische und biotechnologische

Anwendungen Das Konzept ermoglicht den Sortierungsprozess von Bakterienzellen hinsichtlich des Stamms und des Vitalzustands markierungsfrei ohne fachliche Expertise und Notwendigkeit einer Laborumgebung in kurzester Zeit durchzufuhren Durch einen modularen Aufbau und programmierbaren Funktionsumfang lasst sich das System flexibel den Anforderungen diverser Anwendungsbereiche anpassen Dafur wurden drei mikroelektronische Module entwickelt und fur einen kombinierten Einsatz optimiert Ein digitaler mikrofluidischer Transporter wurde als offenes zweidimensionales EWOD Array engl Electrowetting on Dielectrics realisiert Uber das Array kann die bakterielle Probe tropfenweise zu einem elektrolytischen Sensor und weiter durch ein elektrokinetisches Filter geleitet werden Als Sensor der medialen Elektrolytkonzentration wurde ein EGOFET engl Electrolyte Gated Organic Field Effect Transistor mittels Dunnschichttechnologien hergestellt und auf Basis von Natriumchloridlosungen validiert Das elektrokinetische Filter wurde als Dielektrophoresezelle uber dunnschichtbasierte Mikroelektrodenarrays realisiert Mit den Modellbakterien Escherichia coli und Priestia megaterium wurde gezeigt dass Bakterienzellen uber die Frequenz des elektrischen Feldes gezielt fixiert bzw nicht fixiert werden Uber die Frequenz ermoglicht das Filter eine adaptive Selektion von Bakterienstamm und Vitalzustand Dazu wurden die Spektren der Kraftwirkung nach Clausius Mossotti auf die Bakterienzellen aufgenommen Durch die Messung der elektrolytischen Ionenkonzentration kann eine spektrale Verschiebung der Kraftwirkung durch Variation der elektrolytischen Leitfahigkeit kompensiert und damit eine autonome und zuverlassige Sortierung ermoglicht Nano- and Micro-Electromechanical Systems Sergey Edward Lyshevski, 2005-01-11 Society is approaching werden and advancing nano and microtechnology from various angles of science and engineering The need for further fundamental applied and experimental research is matched by the demand for quality references that capture the multidisciplinary and multifaceted nature of the science Presenting cutting edge information that is applicable to many fields Nano and Micro Electromechanical Systems Fundamentals of Nano and Microengineering Second Edition builds the theoretical foundation for understanding modeling controlling simulating and designing nano and microsystems The book focuses on the fundamentals of nano and microengineering and nano and microtechnology It emphasizes the multidisciplinary principles of NEMS and MEMS and practical applications of the basic theory in engineering practice and technology development Significantly revised to reflect both fundamental and technological aspects this second edition introduces the concepts methods techniques and technologies needed to solve a wide variety of problems related to high performance nano and microsystems The book is written in a textbook style and now includes homework problems examples and reference lists in every chapter as well as a separate solutions manual It is designed to satisfy the growing demands of undergraduate and graduate students researchers and professionals in the fields of nano and microengineering and to enable them to contribute to the nanotechnology revolution Nano and Cell Mechanics Horacio D. Espinosa, Gang Bao, 2012-12-12 Research in nano and cell mechanics has received much attention from the scientific community as a result of society needs and

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microfabrication and microelectronics Scaling down conventional devices and attempts to develop novel topologies and architectures will soon be ineffective or unachievable at the device and system levels to ensure desired performance Forward looking experts continue to search for new paradigms to carry the field beyond the age of microelectronics and molecular electronics is one of the most promising candidates The Nano and Molecular Electronics Handbook surveys the current state of this exciting emerging field and looks toward future developments and opportunities Molecular and Nano Electronics Explained Explore the fundamentals of device physics synthesis and design of molecular processing platforms and molecular integrated circuits within three dimensional topologies organizations and architectures as well as bottom up fabrication utilizing quantum effects and unique phenomena Technology in Progress Stay current with the latest results and practical solutions realized for nanoscale and molecular electronics as well as biomolecular electronics and memories Learn design concepts device level modeling simulation methods and fabrication technologies used for today s applications and beyond Reports from the Front Lines of Research Expert innovators discuss the results of cutting edge research and provide informed and insightful commentary on where this new paradigm will lead The Nano and Molecular Electronics Handbook ranks among the most complete and authoritative guides to the past present and future of this revolutionary area of theory and technology Micro-Nano Mechatronics Chikara Nagai, 2013-06-05 Micro Nano mechatronics is currently used in broader spectra ranging from basic applications in robotics actuators sensors semiconductors automobiles and machine tools As a strategic technology highlighting the 21st century this technology is extended to new applications in bio medical systems and life science construction machines and aerospace equipment welfare human life engineering and other brand new scopes Basically the miniaturizing technology is important to realize high performance low energy consumption low cost performance small space instrumentation light weight and so on This book presents the summary of our project Center of Excellence for Education and Research of Micro Nano Mechatronics The project implements a strategy to realize applications of micro nano mechatronics which are based on mechanical engineering or materials science control systems engineering and advanced medical engineering The chapters describe the research advances in micro nano measurement and control micro nano design and manufacturing nano materials science and their applications in biomedical engineering The publication of this book was supported by Nagoya University the 21st COE program Micro and NanoMechatronics for Information Based Society and the global COE program COE for Education and Research of Micro Nano Mechatronics

Nanomedicine Design of Particles, Sensors, Motors, Implants, Robots, and Devices Mark J. Schulz, Vesselin N. Shanov, 2009 Annotation This resource outlines the new tools that are becoming available in nanomedicine The book presents an integrated set of perspectives that describe where advancements are now and where they should be headed to put nanomedicine devices into applications as quickly as possible

Solutions Manual for Nano- and

Micro-Electromechanical Systems Lyshevski SergeyEdward, Sergey Edward Lyshevski, 2005-02-25

Nanomedicine

Vijay K. Varadan, Lin Feng Chen, Jining Xie, 2008-11-20 Recent advances in nanomedicine offer ground breaking methods for the prevention diagnosis and treatment of some fatal diseases Amongst the most promising nanomaterials being developed are magnetic nanomaterials including magnetic nanoparticles and magnetic nanosensors Some nanomagnetic medical applications are already commercially available with more set to be released over the coming years Nanomedicine Design and Applications of Magnetic Nanomaterials Nanosensors and Nanosystems presents a comprehensive overview of the biomedical applications of various types of functional magnetic materials. The book provides an introduction to magnetic nanomaterials before systematically discussing the individual materials their physical and chemical principles fabrication techniques and biomedical applications This methodical approach allows this book to be used both as a textbook for beginners to the subject and as a convenient reference for professionals in the field Discusses magnetic nanoparticles including nanowires nanotubes zero dimensional nanosperes and naturally existing magnetosomes Examines intrinsically smart magnetic materials and describes their part in the development of biomedical sensors and biochips which are often used in biomedical tests Integrates the research efforts of different disciplines from materials sciences to biology and electrical engineering to medicine in order to provide a unified and authoritative guide to a richly interdisciplinary field This volume is of great appeal to students and researchers in the fields of electrical and electronic engineering biomedical engineering nanotechnology materials science physics medicine and biology It is also of interest to practising engineers materials scientists chemists and research medical doctors involved in the development of magnetic materials and structures Nanopatterning and Nanoscale Devices for Biological Applications Seila for biomedical applications Šelimović, 2017-12-19 Nanoscale techniques and devices have had an explosive influence on research in life sciences and bioengineering Reflecting this influence Nanopatterning and Nanoscale Devices for Biological Applications provides valuable insight into the latest developments in nanoscale technologies for the study of biological systems Written and edited by experts in the field this first of its kind collection of topics Covers device fabrication methods targeting the substrate on the nanoscale through surface modification Explores the generation of nanostructured biointerfaces and bioelectronics elements Examines microfluidically generated droplets as reactors enabling nanoscale sample preparation and analysis Gives an overview of key biosensors and integrated devices with nanoscale functionalities Discusses the biological applications of nanoscale devices including a review of nanotechnology in tissue engineering Readers gain a deep understanding of the cutting edge applications of nanotechnologies in biological engineering and learn how to apply the relevant scientific concepts to their own research Nanopatterning and Nanoscale Devices for Biological Applications is the definitive reference for researchers in engineering biology and biomedicine and for anyone exploring the newest trends in this innovative field Handbook of Nanoscience, Engineering, and Technology, 2003 Annotation With contributions from a host of world class

experts and pioneers in the field this handbook sets forth the fundamentals of nanoelectromechanical systems studies their

fabrication and explores some of their most promising applications It provides comprehensive information and references for nanoscale structures devices and systems **Nanomedicine and Tissue Engineering** Nandakumar Kalarikkal,Robin Augustine,Oluwatobi Samuel Oluwafemi,Joshy K. S.,Sabu Thomas,2016-03-30 This book focuses on the recent advances in nanomedicine and tissue engineering It outlines the basic tools and novel approaches that are becoming available in nanomedicine and tissue engineering and considers the full range of nanomedical applications which employ molecular nanotechnology inside the human body from the perspective of a future pr

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