

Microfluidics and Nanofluidics

Microfluidics And Nanofluidics Journal

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Microfluidics and Nanofluidics Mohsen Sheikholeslami Kandelousi, 2018-08-22 In the present book various applications of microfluidics and nanofluidics are introduced Microfluidics and nanofluidics span a broad array of disciplines including mechanical materials and electrical engineering surface science chemistry physics and biology Also this book deals with transport and interactions of colloidal particles and biomolecules in microchannels which have great importance to many microfluidic applications such as drug delivery in life science microchannel heat exchangers in electronic cooling and food processing industry Furthermore this book focuses on a detailed description of the thermal transport behavior challenges and implications that involve the development and use of HTFs under the influence of atomistic scale structures and industrial applications

What is What in the Nanoworld Victor E. Borisenko, Stefano Ossicini, 2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A representative collection of fundamental terms and definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology

Multidisciplinary Microfluidic and Nanofluidic Lab-on-a-Chip Xiujun (James) Li, Chaoyong Yang, Paul C. H. Li, 2021-09-19 Multidisciplinary Microfluidic and Nanofluidic Lab on a Chip Principles and Applications provides chemists biophysicists engineers life scientists biotechnologists and pharmaceutical scientists with the principles behind the design manufacture and testing of life sciences microfluidic systems This book serves as a reference for technologies and applications in multidisciplinary areas with an emphasis on quickly developing or new emerging areas including digital microfluidics nanofluidics papers based microfluidics and cell biology The book offers practical guidance on how to design analyze fabricate and test microfluidic devices and systems for a wide variety of applications including separations disease detection cellular analysis DNA analysis proteomics and drug delivery Calculations solved problems data tables and design rules are provided to help researchers understand microfluidic basic theory and principles and apply this knowledge to their own unique designs Recent advances in microfluidics and microsystems for life sciences are impacting chemistry biophysics molecular cell biology and medicine for applications that include DNA analysis drug discovery disease research and biofluid and environmental monitoring Provides calculations solved problems data tables and design rules to help understand

microfluidic basic theory and principles Gives an applied understanding of the principles behind the design manufacture and testing of microfluidic systems Emphasizes on quickly developing and emerging areas including digital microfluidics nanofluidics papers based microfluidics and cell biology **Electrokinetic Microfluidics and Nanofluidics** Dongqing Li,2022-11-18 This book reviews the latest advancement of microfluidics and nanofluidics with a focus on electrokinetic phenomena in microfluidics and nanofluidics It provides fundamental understanding of several new interfacial electrokinetic phenomena in microfluidics and nanofluidics Chapter 1 gives a brief review of the fundamentals of interfacial electrokinetics Chapter 2 shows induced charge electrokinetic transport phenomena Chapter 3 presents the new advancement in DC dielectrophoresis Chapter 4 introduces a novel nanofabrication method and the systematic studies of electrokinetic nanofluidics Chapter 5 presents electrokinetic phenomena associated with Janus particles and Janus droplets Chapter 6 introduces a new direction of electrokinetic nanofluidics nanofluidic iontronics Chapter 7 discusses an important differential resistive pulse sensor in microfluidics and nanofluidics *Electrokinetically-Driven Microfluidics and Nanofluidics*

Hsueh-Chia Chang,Leslie Y. Yeo,2009-11-09 Electrokinetics is currently the mechanism of choice for fluid actuation and bioparticle manipulation at microscale and nanoscale dimensions There has recently been widespread interest in the use of AC electric fields given the many advantages it offers over DC electrokinetics Nevertheless a fundamental understanding of the governing mechanisms underlying the complex and nonlinear physicochemical hydrodynamics associated with these systems is required before practical microfluidic and nanofluidic devices can be engineered This text aims to provide a comprehensive treatise on both classical equilibrium electrokinetic phenomena as well as the more recent non equilibrium phenomena associated with both DC and AC electrokinetics in the context of their application to the design of microfluidic and nanofluidic technology In particular Leslie Yeo and Hsueh Chia Chang discuss the linear and nonlinear theories underlying electroosmosis electrophoresis and dielectrophoresis pertaining to electrolytes as well as dielectric systems Interfacial electrokinetic phenomena such as electrospraying electrospinning and electrowetting are also discussed

Manufacturing Technology, Electronics, Computer and Information Technology Applications Zhang Lin,Hong Ying Hu,Ya Jun Zhang,Jian Guo Qiao,Jia Min Xu,2014-11-27 Selected peer reviewed papers from the 2014 International Conference on Manufacturing Technology and Electronics Applications ICMTEA 2014 November 8 9 2014 Taiyuan Shanxi China

Complex Fluid-Flows in Microfluidics Francisco José Galindo-Rosales,2017-05-26 This monograph contains expert knowledge on complex fluid flows in microfluidic devices The topical spectrum includes but is not limited to aspects such as the analysis experimental characterization numerical simulations and numerical optimization The target audience primarily comprises researchers who intend to embark on activities in microfluidics The book can also be beneficial as supplementary reading in graduate courses **Library Journal** ,2008 *Fundamentals and Applications of Microfluidics, Third Edition* Nam-Trung Nguyen,Steven T. Wereley,Seyed Ali Mousavi Shaegh,2019-01-31 Now in its Third Edition the Artech House

bestseller *Fundamentals and Applications of Microfluidics* provides engineers and students with the most complete and current coverage of this cutting edge field This revised and expanded edition provides updated discussions throughout and features critical new material on microfluidic power sources sensors cell separation organ on chip and drug delivery systems 3D culture devices droplet based chemical synthesis paper based microfluidics for point of care ion concentration polarization micro optofluidics and micro magnetofluidics The book shows how to take advantage of the performance benefits of microfluidics and serves as an instant reference for state of the art microfluidics technology and applications Readers find discussions on a wide range of applications including fluid control devices gas and fluid measurement devices medical testing equipment and implantable drug pumps Professionals get practical guidance in choosing the best fabrication and enabling technology for a specific microfluidic application and learn how to design a microfluidic device Moreover engineers get simple calculations ready to use data tables and rules of thumb that help them make design decisions and determine device characteristics quickly

Microelectromechanical Systems, 2007 **Library Journal** Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 2007 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately Methods in Bioengineering Jeffrey D. Zahn, 2010 Written and edited by recognized experts in the field the new Artech House Methods in Bioengineering series offers detailed guidance on authoritative methods for addressing specific bioengineering challenges Offering a highly practical presentation of each topic each book provides research engineers scientists and students with step by step procedures clear examples and effective ways to overcome problems that may be encountered This unique volume presents leading edge microfluidics methods used to handle manipulate and analyze cells particles biological components e g proteins and DNA for microdiagnostics

Proceedings of the ASME Process Industries Division, ... : Presented at the ... ASME Mechanical Engineering Congress and Exposition, ..., 2007 **Transfer Phenomena in Fluid and Heat Flows XI** Luiz Rocha, Antonio F. Miguel, Andreas Öchsner, 2020-02-12 Special topic volume with invited peer reviewed papers only Journal of Scientific and Industrial Research, 2011 Circulating Tumor Cells Z. Hugh Fan, 2016-04-18 Introduces the reader to Circulating Tumor Cells CTCs their isolation method and analysis and commercially available platforms Presents the historical perspective and the overview of the field of circulating tumor cells CTCs Discusses the state of art methods for CTC isolation ranging from the macro to micro scale from positive concentration to negative depletion and from biological property enabled to physical property based approaches Details commercially available CTC platforms Describes post isolation analysis and clinical translation Provides a glossary of scientific terms related to CTCs

21st International Conference on Silicon Carbide and Related Materials (ICSCRM 2024) Victor Veliadis, Arash Salemi, 2025-09-30 Selected peer reviewed extended articles based on abstracts presented at the 21st International Conference on Silicon Carbide and Related

Materials ICSCRM 2024 Aggregated Book **Encyclopedia of Microfluidics and Nanofluidics** Dongqing Li, 2008-08-06
Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas
Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more *Proceedings of the 4th International Conference on Nanochannels, Microchannels and Minichannels-- 2006* ,2006 Microfluidics and Nanofluidics
Clement Kleinstreuer, 2013-12-04 Fluidics originated as the description of pneumatic and hydraulic control systems where fluids were employed instead of electric currents for signal transfer and processing Microfluidics and Nanofluidics Theory and Selected Applications offers an accessible broad based coverage of the basics through advanced applications of microfluidics and nanofluidics It is essential reading for upper level undergraduates and graduate students in engineering and professionals in industry

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