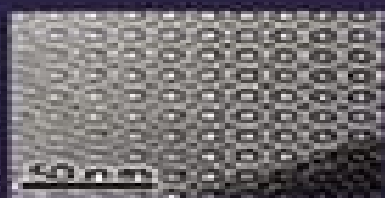


# Nanoporous Materials

## Science and Engineering

edited by

**G. Q. Lu**  
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Imperial College Press

# Nanoporous Materials Science And Engineering

**Minjie Lin**



## **Nanoporous Materials Science And Engineering:**

**Nanoporous Materials: Science And Engineering** G Q Max Lu,Xiu Song Zhao,2004-11-22 Porous materials are of scientific and technological importance because of the presence of voids of controllable dimensions at the atomic molecular and nanometer scales enabling them to discriminate and interact with molecules and clusters Interestingly the big deal about this class of materials is about the nothingness within the pore space International Union of Pure and Applied Chemistry IUPAC classifies porous materials into three categories micropores of less than 2 nm in diameter mesopores between 2 and 50 nm and macropores of greater than 50 nm In this book nanoporous materials are defined as those porous materials with pore diameters less than 100 nm Over the last decade there has been an ever increasing interest and research effort in the synthesis characterization functionalization molecular modeling and design of nanoporous materials The main challenges in research include the fundamental understanding of structure property relations and tailor design of nanostructures for specific properties and applications Research efforts in this field have been driven by the rapid growing emerging applications such as biosensor drug delivery gas separation energy storage and fuel cell technology nanocatalysis and photonics These applications offer exciting new opportunities for scientists to develop new strategies and techniques for the synthesis and applications of these materials This book provides a series of systematic reviews of the recent developments in nanoporous materials It covers the following topics 1 synthesis processing characterization and property evaluation 2 functionalization by physical and or chemical treatments 3 experimental and computational studies on fundamental properties such as catalytic effects transport and adsorption molecular sieving and biosorption 4 applications including photonic devices catalysis environmental pollution control biological molecules separation and isolation sensors membranes hydrogen and energy storage etc a

**Nanoporous Materials and Their Applications** Enrique Rodríguez-Castellón,Sibele Pergher,2019-05-27 This book is a special collection of articles dedicated to the preparation and characterization of nanoporous materials such as zeolitic type materials mesoporous silica SBA 15 MCM 41 and KIT 6 mesoporous metallic oxides metal organic framework structures MOFs and pillared clays and their applications in adsorption catalysis and separation processes This book presents a global vision of researchers from international universities research centers and industries working with nanoporous materials and shares the latest results on the synthesis and characterization of such materials which have given rise to the special interest in their applications in basic and industrial processes

**Encyclopedia of Renewable and Sustainable Materials** ,2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO<sub>2</sub> emissions manufacturing energy requirements manufacturing

costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

**Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density** Seymour Lowell, Joan E. Shields, Martin A. Thomas, Matthias Thommes, 2006-04-24

The growth of interest in newly developed porous materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience One might consider this new book as the 4th edition of Powder Surface Area and Porosity Lowell the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded

Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color

Materials Science & Engineering, 2007 *Nanosensors* Vinod Kumar Khanna, 2021-02-25 Nanosensors are innovative devices that exploit the unique properties exhibited by matter at the nanoscale A growing and exciting field nanosensors have recently spurred considerable research endeavors across the globe driving a need for the development of new device concepts and engineering nanostructured materials with controlled properties Nanosensors Physical Chemical and Biological Second Edition offers a panoramic view of the field and related nanotechnologies with extraordinary clarity and depth Presenting an interdisciplinary approach blending physics chemistry and biology this new edition is broad in scope and organised into six parts beginning with the fundamentals before moving onto nanomaterials and nanofabrication technologies in the second part The third and fourth parts provide a critical appraisal of physical nanosensors and explore the chemical and biological categories of nanosensors The fifth part sheds light on the emerging applications of nanosensors in the sectors of society industry and defense and details the cutting edge applications of state of the art nanosensors in environmental science food technology medical diagnostics and biotechnology The final part addresses self powering and networking issues of nanosensors and provides glimpses of future trends This is an ideal reference for researchers and industry professionals engaged in the frontier areas of material science and semiconductor fabrication as well as graduate students in physics and engineering pursuing electrical engineering and electronics courses

with a focus on nanoscience and nanotechnology Key features Provides an updated all encompassing exploration of contemporary nanosensors and highlights the exclusive nanoscale properties on which nanosensors are designed Presents an accessible approach with a question and answer format to allow an easy grasp of the intricacies involved in the complex working mechanisms of devices Contains clear illustrative diagrams enabling the visualization of nanosensor operations along with worked examples end of chapter questions and exhaustive up to date bibliographies appended to each chapter

**Nanobiomaterials** Thandapani Gomathi,P.N. Sudha,Sabu Thomas,2023-10-13 Nanobiomaterials Research Trends and Applications Biomaterials are derived from natural resources such as plants animals and marine sources These biomaterials have advanced applications across a range of key industries due to their low cost being easy to process being biocompatible and so on The modification of biomaterials in the nanoform enhances their applications The book begins with an overview of nanobiomaterials processing classifications fabrication and sustainability In depth chapters in Part I address the most recent methods and techniques for physicochemical characterisation processing of blends and composites based on nanomaterials and separation Chapters in Part II focus on the biological and biomedical applications specifically in antimicrobial chemotherapy drug delivery tissue engineering cancer therapeutics robust biosolar cells and 3D printing The chapters in Part III mostly focus on environmental applications including wastewater treatment water desalination bioremediation and agricultural uses The book is extremely useful for scientists R D specialists designers and engineers across sectors and disciplines who are interested in using biopolymers for parts and products Advances in Nanotechnology Research and Application: 2012 Edition ,2012-12-26 Advances in Nanotechnology Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Nanotechnology The editors have built Advances in Nanotechnology Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Nanotechnology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Nanotechnology Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Nanomaterials Fouad Sabry,2022-01-16 What Is Nanomaterials Nanomaterials describe in principle materials of which a single unit small sized between 1 and 100 nm How You Will Benefit I Insights and validations about the following topics Chapter 1 Nanomaterials Chapter 2 Nanoporous materials Chapter 3 Nanoparticle Chapter 4 Characterization of nanoparticles Chapter 5 Applications of nanotechnology Chapter 6 Nanometrology Chapter 7 Materials science II Answering the public top questions about nanomaterials III Real world examples for the usage of nanomaterials in many fields IV 17

appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of nanomaterials technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of nanomaterials      **Advances in Bioceramics and Biocomposites II, Volume 27, Issue 6** Mineo Mizuno, 2009-09-29 The use of ceramics in biological environments and biomedical applications is of increasing importance as is the understanding of how biology works with minerals to develop strong materials These proceedings contain papers that discuss the interface between biology and materials presented at the Proceedings of the 30th International Conference on Advanced Ceramics and Composites January 22 27 2006 Cocoa Beach Florida Organized and sponsored by The American Ceramic Society and The American Ceramic Society s Engineering Ceramics Division in conjunction with the Nuclear and Environmental Technology Division      Models, Simulation, and Experimental Issues in Structural Mechanics Michel Frémond, Franco Maceri, Giuseppe Vairo, 2017-01-21 This book offers valuable insights and provides effective tools useful for imagining creating and promoting novel and challenging developments in structural mechanics It addresses a wide range of topics such as mechanics and geotechnics vibration and damping damage and friction experimental methods and advanced structural materials It also discusses analytical experimental and numerical findings focusing on theoretical and practical issues and innovations in the field Collecting some of the latest results from the Lagrange Laboratory a European scientific research group mainly consisting of Italian and French engineers mechanics and mathematicians the book presents the most recent example of the long term scientific cooperation between well established French and Italian Mechanics Mathematics and Engineering Schools It is a valuable resource for postgraduate students researchers and practitioners dealing with theoretical and practical issues in structural engineering      Nanoporous Alumina Dusan Losic, Abel Santos, 2015-07-17 This book gives detailed information about the fabrication properties and applications of nanoporous alumina Nanoporous anodic alumina prepared by low cost simple and scalable electrochemical anodization process due to its unique structure and properties have attracted several thousand publications across many disciplines including nanotechnology materials science engineering optics electronics and medicine The book incorporates several themes starting from the understanding fundamental principles of the formation nanopores and theoretical models of the pore growth The book then focuses on describing soft and hard modification techniques for surface and structural modification of pore structures to tailor specific sensing transport and optical properties of nano porous alumina required for diverse applications These broad applications including optical biosensing electrochemical DNA biosensing molecular separation optofluidics and drug delivery are reviewed in separated book chapters The book appeals to researchers industry professionals and high level students      **Materials Science and Information Technology** Cai Suo Zhang, 2012-01-03 Selected peer reviewed papers from the 2011 International Conference on Material Science and Information Technology MSIT 2011 September 16 18 2011 Singapore      **Handbook of**

**Micromechanics and Nanomechanics** Shaofan Li,Xin-Lin Gao,2016-04-19 This book presents the latest developments and applications of micromechanics and nanomechanics It particularly focuses on some recent applications and impact areas of micromechanics and nanomechanics that have not been discussed in traditional micromechanics and nanomechanics books on metamaterials micromechanics of ferroelectric piezoelectric *Nanotechnology in Textiles* Rajesh Mishra,Jiri Militky,2018-11-14 Nanotechnology in Textiles Theory and Application explains how conventional methods for treating fabrics for specific functions can be improved upon with the use of nanotechnology Overviews of relevant fundamental nanophysics and nanochemistry theory are provided along with explanations of their application in textile finishing providing a crucial resource for readers exploring this expanding frontier in textiles The book draws on research from around the globe to address the latest nanotechnological developments that are all examined with references to industrial applications Provides a complete theoretical overview of nanotechnology and nanofibers for those with materials science or engineering backgrounds Covers a broad range of topics including aerogels polymer nanocomposites nanohazards and electrospinning Looks ahead to emerging applications of nanotechnology in textiles to point the way for further research and innovation

*Geomechanical and Petrophysical Properties of Mudrocks* E.H. Rutter,J. Mecklenburgh,K.G. Taylor ,2017-10-09 A surge of interest in the geomechanical and petrophysical properties of mudrocks shales has taken place in recent years following the development of a shale gas industry in the United States and elsewhere and with the prospect of similar developments in the UK Also these rocks are of particular importance in excavation and construction geotechnics and other rock engineering applications such as underground natural gas storage carbon dioxide disposal and radioactive waste storage They may greatly influence the stability of natural and engineered slopes Mudrocks which make up almost three quarters of all the sedimentary rocks on Earth therefore impact on many areas of applied geoscience This volume focuses on the mechanical behaviour and various physical properties of mudrocks The 15 chapters are grouped into three themes i physical properties such as porosity permeability fluid flow through cracks strength and geotechnical behaviour ii mineralogy and microstructure which control geomechanical behaviour and iii fracture both in laboratory studies and in the field *Physical Chemistry for the Chemical and Biochemical Sciences* Jose Luis Lopez-Bonilla,Marat Ibragimovich Abdullin,Gennady E. Zaikov,2016-03-30 By providing an applied and modern approach this volume will help readers understand the value and relevance of studying case studies and reviews on chemical and biochemical sciences Presenting a wide ranging view of current developments in applied methodologies in chemical and biochemical physics research the papers in this collection all write **Handbook of Measurement in Science and Engineering, Volume 3** Myer Kutz,2016-04-25 A multidisciplinary reference of engineering measurement tools techniques and applications When you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely

in your thoughts advanced to the stage of science Lord Kelvin Measurement is at the heart of any engineering and scientific discipline and job function Whether engineers and scientists are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful data The Handbook of Measurement in Science and Engineering is the most comprehensive up to date reference set on engineering and scientific measurements beyond anything on the market today Encyclopedic in scope Volume 3 covers measurements in physics electrical engineering and chemistry Laser Measurement Techniques Magnetic Force Images using Capacitive Coupling Effect Scanning Tunneling Microscopy Measurement of Light and Color The Detection and Measurement of Ionizing Radiation Measuring Time and Comparing Clocks Laboratory Based Gravity Measurement Cryogenic Measurements Temperature Dependent Fluorescence Measurements Voltage and Current Transducers for Power Systems Electric Power and Energy Measurement Chemometrics for the Engineering and Measurement Sciences Liquid Chromatography Mass Spectroscopy Measurements of Nitrotyrosine Containing Proteins Fluorescence Spectroscopy X Ray Absorption Spectroscopy Nuclear Magnetic Resonance NMR Spectroscopy Near Infrared NIR Spectroscopy Nanomaterials Properties Chemical Sensing Vital for engineers scientists and technical managers in industry and government Handbook of Measurement in Science and Engineering will also prove ideal for academics and researchers at universities and laboratories

[Advances in Desalination Insights](#) ,2025-03-05 This book serves as a lighthouse of knowledge and hope in a world beset by the intensifying global water crisis It undertakes a thorough exploration of the vanguard desalination technologies Highlighting the solar driven interfacial and heat localized evaporation techniques that efficiently tap into solar energy it also investigates membrane separation processes and adsorbents which are constantly pushing the frontiers of desalination The incorporation of machine learning for optimizing porous media evaporation and the vital element of desalinated seawater re mineralization are comprehensively covered Additionally it offers profound insights into performance indices and the role of artificial intelligence in augmenting desalination systems This book provides a distinctive perspective by integrating state of the art research with real world applications It equips a wide range of readers engineers researchers or policymakers with the understanding and impetus necessary to innovate in desalination Truly it is an indispensable resource for those committed to resolving the global water scarcity issue and driving the progress of securing future water utilization in the world



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