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# Handbook of Porous Silicon

*Second Edition - Volume 1*

 Springer

# Handbook Of Porous Silicon

**Alexandru Mihai Grumezescu**



## **Handbook Of Porous Silicon:**

Handbook of Porous Silicon Leigh Canham, 2018-06-07 This handbook updates the most fast moving research areas of porous silicon research introduces a range of brand new topics not reviewed before and is even more inclusive of worldwide centres of expertise Rapid advances are being made in porous silicon anodes for lithium batteries biodegradable nanoparticles and nanoneedles for medical therapy and imaging energetics and bio diagnostic techniques A number of additional characterization and processing techniques are also reviewed for the first time Experts from 10 additional countries are involved in the 2nd edition China Vietnam Singapore Malaysia Saudi Arabia Turkey Netherlands Switzerland Belarus and Brazil making more than 40 countries in total The handbook therefore covers expertise from every continent Another new feature is a review dedicated to industrial activity This second edition endeavours to provide the community with a truly comprehensive database and up to date commentary on this versatile nanostructured material

**Porous Silicon for Biomedical Applications** Hélder A. Santos, 2021-10-23 Porous Silicon for Biomedical Applications Second Edition provides an updated guide to the diverse range of biomedical applications of porous silicon from biosensing and imaging to tissue engineering and cancer therapy Across biomedical disciplines there is an ongoing search for biomaterials that are biocompatible modifiable structurally sound and versatile Porous silicon possesses a range of properties that make it ideal for a variety of biomedical applications such as controllable geometry tunable nanoporous structure large pore volume high specific surface area and versatile surface chemistry This book provides a fully updated and detailed overview of the range of biomedical applications for porous silicon Part One offers the reader a helpful insight into the fundamentals and beneficial properties of porous silicon including thermal properties and stabilization photochemical and nonthermal chemical modification protein modification and biocompatibility The book then builds on the systematic detailing of each biomedical application using porous silicon from bioimaging and sensing to drug delivery and tissue engineering This new edition also includes new chapters on in vivo assessment of porous silicon photodynamic and photothermal therapy micro and nanoneedles Raman imaging cancer immunotherapy and more With its acclaimed editor and international team of expert contributors Porous Silicon for Biomedical Applications Second Edition is a technical resource and indispensable guide for all those involved in the research development and application of porous silicon and other biomaterials while providing a comprehensive introduction for students and academics interested in this field Reviews the fundamental aspects of porous silicon including the fabrication and unique properties of this useful material Discusses a broad selection of biomedical applications offering a detailed insight into the benefits of porous silicon in both research and clinical settings Includes fully updated content from the previous edition as well as brand new chapters covering topics such as porous silicon micro and nanoneedles and cancer immunotherapy

**Handbook of Humidity Measurement, Volume 3** Ghenadii Korotcenkov, 2020-01-24 Because of unique water properties humidity affects materials and many living organisms including

humans Humidity control is important in various fields from production management to creating a comfortable living environment The range of materials that can be used in the development of humidity sensors is very broad and the third volume of the Handbook of Humidity Measurement offers an analysis on various humidity sensitive materials and sensor technologies used in the fabrication of humidity sensors and methods acceptable for their testing Additional features include numerous strategies for the fabrication and characterization of humidity sensitive materials and sensing structures used in sensor applications methods and properties to develop smaller cheaper more robust and accurate devices with better sensitivity and stability a guide to sensor selection and an overview of the humidity sensor market and new technology solutions for integration miniaturization and specificity of the humidity sensor calibration Handbook of Humidity Measurement Volume 3 Sensing Materials and Technologies provides valuable information for practicing engineers measurement experts laboratory technicians project managers in industries and national laboratories and university students and professors interested in solutions to humidity measurement tasks Despite the fact that this book is devoted to the humidity sensors it can be used as a basis for understanding fundamentals of any gas sensor operation and development

*Porous Silicon: From Formation to Applications: Optoelectronics, Microelectronics, and Energy Technology Applications, Volume Three* Ghenadii Korotcenkov, 2016-01-06 Porous silicon is rapidly attracting increasing interest from various fields including optoelectronics microelectronics photonics medicine sensor and energy technologies chemistry and biosensing This nanostructured and biodegradable material has a range of unique properties that make it ideal for many applications This book the third of a **Advances in Porous Semiconductor Research** Thierry Djenizian, Nicolas Hans Voelcker, 2020-03-30

**Functional Nanoporous Materials** Christian Weinberger, Michael Tiemann, 2020-06-23 With pore sizes up to 100 nm the term nanoporous covers a wide range of material classes A broad field of applications has arisen from the diversity of unique structures and properties of nanoporous materials Recent research spans the range from fundamental studies of the behavior of atoms and molecules in confined space creative synthetic pathways for novel materials to applications in high performance technologies This Special Issue collects current studies about the progress in the development characterization and application of nanoporous materials including but not restricted to mesoporous silica carbon and metal oxides porous coordination polymers metal organic frameworks MOFs and covalent organic frameworks COFs as well as materials exhibiting hierarchical porosity Their functionalities show promise for fields such as energy storage conversion e g photocatalysis and battery electrodes sensing catalysis and their sorption properties for N<sub>2</sub> CO<sub>2</sub> NO<sub>x</sub> or H<sub>2</sub>O to name just a few **Nanoporous Materials and Their Applications** Enrique Rodríguez-Castellón, Sibeles 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 *Pits & Pores 8: Nanomaterials - Fabrication, Properties, and Applications* P. Granitzer, R. Boukherroub, D. J. Lockwood, H. Masuda, S. Virtanen, 2018-09-21

**Concepts and Design of Materials Nanoarchitectonics** Omar Azzaroni, Katsuhiko Ariga, 2022-02-16 This book covers introductory features underlying the field of nanoarchitectonics presenting a unifying overview of the theoretical aspects and emerging applications that are changing the capability to understand and design advanced functional materials *Nanooncology* Gil Gonçalves, Gerard Tobias, 2018-06-01 This book presents a systematic overview of the most relevant nanomaterials and their respective intrinsic properties that have been highly explored by the scientific community and pharmaceutical companies in several different modalities for cancer therapy and bioimaging The chapters explore the synergistic effects provided by the different nanostructured materials and highlight the main in vitro and in vivo therapeutic achievements on cancer This work also provides relevant discussion about the recent progresses and future challenges that nanotechnology faces on the conception of more efficient nanoformulations against primary tumors circulating cancer cells and metastases

**Electrochemically Engineered Nanoporous Materials** Dusan Losic, Abel Santos, 2015-07-18 This book provides in depth knowledge about the fabrications structures properties and applications of three outstanding electrochemically engineered nanoporous materials including porous silicon nanoporous alumina and nanotubular titania The book integrates three major themes describing these materials The first theme is on porous silicon reviewing the methods for preparation by electrochemical etching properties and methods for surface functionalization relevant for biosensing applications Biomedical applications of porous silicon are major focus described in several chapters reviewing recent developments on bioanalysis emerging capture probes and drug delivery The second theme on nanoporous alumina starts with describing the concept of self organized electrochemical process used for synthesis nanopore and nanotube structures of valve metal oxides and reviewing recent development and progress on this field The following chapters are focused mainly on optical properties and biosensing application of nanoporous alumina providing the reader with the depth of understanding of the structure controlled optical and photonic properties and design of optical biosensing devices using different detection principles such as photoluminescence surface plasmon resonance reflective spectrometry wave guiding Raman scattering etc The third theme is focused on nanotubular titania reviewing three key applications including photocatalysis solar cells and drug delivery The book represents an important resource for academics researchers industry professionals post graduate and high level undergraduate students providing them with both an overview of the current state of the art on these materials and their future developments **Electrochemically Engineering of Nanoporous Materials** Abel Santos, 2018-10-10 This book is a printed edition of the Special Issue Electrochemically Engineering of Nanoporous Materials that was published in

**Nanomaterials Smart Materials for Tissue Engineering** Qun Wang, 2017 Comprehensively covering the applications of smart materials for clinical applications this book will be a valuable resource to biochemists materials scientists and biomedical engineers working in industry and academia

**Inorganic Frameworks as Smart Nanomedicines** Alexandru Mihai Grumezescu, 2018-04-09 Inorganic Frameworks as Smart Nanocarriers for Drug Delivery brings together recent research in the area of inorganic frameworks for drug delivery Different types of nanocarriers are presented and discussed in detail providing an up to date overview on inorganic nanoparticles with pharmaceutical applications Written by a diverse range of international academics this book is a valuable reference resource for researchers in biomaterials the pharmaceutical industry and those who want to learn more about the current applications of inorganic smart nanocarriers Includes assembly methods for a variety of smart nanocarrier systems also showing how they are applied Highlights how metal oxide nanoparticles are effectively used in drug delivery Assesses the pros and cons of different metallic nanomaterials as drug carriers

**Handbook of Humidity Measurement, Volume 2** Ghenadii Korotcenkov, 2019-01-25 Because of unique water properties humidity affects many living organisms including humans and materials Humidity control is important in various fields from production management to creating a comfortable living environment The second volume of The Handbook of Humidity Measurement is entirely devoted to the consideration of different types of solid state devices developed for humidity measurement This volume discusses the advantages and disadvantages about the capacitive resistive gravimetric hygrometric field ionization microwave Schottky barrier Kelvin probe field effect transistor solid state electrochemical and thermal conductivity based humidity sensors Additional features include Provides a comprehensive analysis of the properties of humidity sensitive materials used for the development of such devices Describes numerous strategies for the fabrication and characterization of humidity sensitive materials and sensing structures used in sensor applications Explores new approaches proposed for the development of humidity sensors Considers conventional devices such as psychrometers gravimetric mechanical hair electrolytic chid mirror hygrometers etc which were used for the measurement of humidity for several centuries Handbook of Humidity Measurement Volume 2 Electronic and Electrical Humidity Sensors provides valuable information for practicing engineers measurement experts laboratory technicians project managers in industries and national laboratories as well as university students and professors interested in solutions to humidity measurement tasks as well as in understanding fundamentals of any gas sensor operation and development

**Porosity** Taher Ghrib, 2018-04-26 This book discusses multiways in the porous materials It involves materials with a large number of holes and it highlights the synthesis structure and surface properties of porous materials closely related to more applications such as support catalyst energy storage chemical reactions and optical applications It studies the effect of the filling materials the thermal treatments and the porous density in the improvement of physical properties electrical and energy efficiency and the generation of new materials Some synthetic process will be discussed with the effect of some

parameters on the final characteristics of the prepared porous structures

**Handbook of Semiconductors** Ram K. Gupta, 2024-07-10 This book provides readers with state of the art knowledge of established and emerging semiconducting materials their processing and the fabrication of chips and microprocessors In addition to covering the fundamentals of these materials it details the basics and workings of many semiconducting devices and their role in modern electronics and explores emerging semiconductors and their importance in future devices Provides readers with latest advances in semiconductors Covers diodes transistors and other devices using semiconducting materials Covers advances and challenges in semiconductors and their technological applications Discusses fundamentals and characteristics of emerging semiconductors for chip manufacturing This book provides directions to scientists engineers and researchers in materials engineering and related disciplines to help them better understand the physics characteristics and applications of modern semiconductors

Handbook of Optoelectronics John P. Dakin, Robert G. W. Brown, 2017-10-06 Handbook of Optoelectronics offers a self contained reference from the basic science and light sources to devices and modern applications across the entire spectrum of disciplines utilizing optoelectronic technologies This second edition gives a complete update of the original work with a focus on systems and applications Volume I covers the details of optoelectronic devices and techniques including semiconductor lasers optical detectors and receivers optical fiber devices modulators amplifiers integrated optics LEDs and engineered optical materials with brand new chapters on silicon photonics nanophotonics and graphene optoelectronics Volume II addresses the underlying system technologies enabling state of the art communications imaging displays sensing data processing energy conversion and actuation Volume III is brand new to this edition focusing on applications in infrastructure transport security surveillance environmental monitoring military industrial oil and gas energy generation and distribution medicine and free space No other resource in the field comes close to its breadth and depth with contributions from leading industrial and academic institutions around the world Whether used as a reference research tool or broad based introduction to the field the Handbook offers everything you need to get started The previous edition of this title was published as Handbook of Optoelectronics 9780750306461 John P Dakin PhD is professor emeritus at the Optoelectronics Research Centre University of Southampton UK Robert G W Brown PhD is chief executive officer of the American Institute of Physics and an adjunct full professor in the Beckman Laser Institute and Medical Clinic at the University of California Irvine

**Multilayer Thin Films** Sukumar Basu, 2020-01-15 This book Multilayer Thin Films Versatile Applications for Materials Engineering includes thirteen chapters related to the preparations characterizations and applications in the modern research of materials engineering The evaluation of nanomaterials in the form of different shapes sizes and volumes needed for utilization in different kinds of gadgets and devices Since the recently developed two dimensional carbon materials are proving to be immensely important for new configurations in the miniature scale in the modern technology it is imperative to innovate various atomic and molecular arrangements for the modifications of structural

properties Of late graphene and graphene related derivatives have been proven as the most versatile two dimensional nanomaterials with superb mechanical electrical electronic optical and magnetic properties To understand the in depth technology an effort has been made to explain the basics of nano dimensional materials The importance of nano particles in various aspects of nano technology is clearly indicated There is more than one chapter describing the use of nanomaterials as sensors In this volume an effort has been made to clarify the use of such materials from non conductor to highly conducting species It is expected that this book will be useful to the postgraduate and research students as this is a multidisciplinary subject

*Surface Modification to Improve Properties of Materials* Miran Mozetič, 2019-04-16 This book contains selected contributions on surface modification to improve the properties of solid materials The surface properties are tailored either by functionalization etching or deposition of a thin coating Functionalization is achieved by a brief treatment with non equilibrium gaseous plasma containing suitable radicals that interact chemically with the material surface and thus enable the formation of rather stable functional groups Etching is performed in order to modify the surface morphology The etching parameters are selected in such a way that a rich morphology of the surfaces is achieved spontaneously on the sub micrometer scale without using masks The combination of adequate surface morphology and functionalization of materials leads to superior surface properties which are particularly beneficial for the desired response upon incubation with biological matter Alternatively the materials are coated with a suitable thin film that is useful in various applications from food to aerospace industries

## **Handbook Of Porous Silicon** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Handbook Of Porous Silicon**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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