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# Porous Silicon

**Sami Franssila**



## **Porous Silicon:**

### **Porous Silicon: From Formation to Application: Formation and Properties, Volume One** Ghenadii

Korotcenkov, 2016-04-21 Porous silicon is rapidly attracting increasing interest in various fields including optoelectronics microelectronics photonics medicine chemistry biosensing and energy Porous Silicon Formation and Properties fills a gap in the literature of the field today providing a thorough introduction to current knowledge of the formation process in *Porous Silicon: Material, Technology and Devices* H. Munder, R. Hérino, W. Lang, 1996-07-08 These proceedings represent the most recent progress in the field of porous silicon Several papers present results in which the influence of the formation parameters on the structural and optical properties has been investigated Further topics dealt with include the influence of light during the formation process on the photoluminescence behaviour fundamental mechanism of the photoluminescence the electroluminescence of porous silicon applications based on porous silicon charge carrier transport **Porous Silicon:**

**From Formation to Application: Formation and Properties, Volume One** Ghenadii Korotcenkov, 2016-04-21 Porous silicon is rapidly attracting increasing interest in various fields including optoelectronics microelectronics photonics medicine chemistry biosensing and energy Porous Silicon Formation and Properties fills a gap in the literature of the field today providing a thorough introduction to current knowledge of the formation process in **Porous Silicon in Practice** M. J. Sailor, 2012-01-09 By means of electrochemical treatment crystalline silicon can be permeated with tiny nanostructured pores that entirely change the characteristics and properties of the material One prominent example of this can be seen in the interaction of porous silicon with living cells which can be totally unwilling to settle on smooth silicon surfaces but readily adhere to porous silicon giving rise to great hopes for such future applications as programmable drug delivery or advanced braincontrolled prosthetics Porous silicon research is active in the fields of sensors tissue engineering medical therapeutics and diagnostics photovoltaics rechargeable batteries energetic materials photonics and MEMS Micro Electro Mechanical Systems Written by an outstanding well recognized expert in the field this book provides detailed step by step instructions to prepare and characterize the major types of porous silicon It is intended for those new to the field Sampling of topics covered Principles of Etching Porous Silicon Etch Cell Construction and Considerations Photonic Crystals Microcavities and Bragg Stacks Etched in Silicon Preparation of Free standing Films and Particles of Porous Silicon Preparation of Photoluminescent Nanoparticles from Porous Silicon Preparation of Silicon Nanowires by Electrochemical Etch of Silicon Surface Modification Chemistry and Biochemistry Measurement of Optical Properties Measurement of Pore Size Porosity Thickness Surface Area The whole is backed by a generous use of color photographs to illustrate the described procedures in detail plus a bibliography of further literature pertinent to a wide range of application fields For materials scientists chemists physicists optical physicists biomaterials scientists neurobiologists bioengineers and graduate students in those fields as well as those working in the semiconductor industry **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

#### 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

*Structural and Optical Properties of Porous Silicon Nanostructures* G Amato, C. Delerue, H J VonBardeleben, 1998-02-25 This volume provides a comprehensive review of the experimental and theoretical aspects of the optical and transport properties of nanoporous silicon their relation to the microscopic structure of nanocrystals and the application of porous silicon in optical devices As porous silicon is an ideal substance for the modelling of optical processes in nanocrystalline materials this volume also is an excellent reference source on the more general subject of the structural and optical properties of nanocrystalline semiconductors

**Porous Silicon** Zhe Chuan Feng, Raphael Tsu, 1994-10-10 Due to the recent discovery of the room temperature visible light emission from porous silicon P Si a great interest in P Si and related materials has arisen in the last decade of the 20th century Crystalline c Si at the

heart of integrated circuits has an indirect band gap of 1.1 eV which limits its application in optoelectronics. The visible light emitting p-Si may open a new field combining Si integrated technology and optoelectronics. This book is a comprehensive review of the recent research and development of porous silicon. Strong visible photoluminescence (PL) and electroluminescence (EL) from p-Si and other forms of silicon nanocrystallites (nc-Si) are reviewed. Several proposed mechanisms for the PL from porous silicon such as quantum confinement, amorphicity and molecular PL are studied. The following issues are covered: mechanisms for the visible light emission; physical structures; studies of the PL and EL; correlation of structure and optical studies; surface physics and chemistry; relationships among various forms of p-Si; a-Si; c-Si; device applications; future developments.

**Porous Silicon: From Formation to Application: Biomedical and Sensor Applications, Volume Two** Ghenadii Korotcenkov, 2016-01-05

Porous silicon is rapidly attracting increasing interest from various fields including optoelectronics, microelectronics, photonics, medicine, chemistry and biosensing. This nanostructured and biodegradable material has a range of unique properties that make it ideal for many applications. For example, the pores and surface chemistry of the material.

**Properties of Porous Silicon** Leigh T. Canham, 2006 [Porous Silicon: From Formation to Application: Biomedical and Sensor Applications, Volume Two](#) Ghenadii Korotcenkov, 2016-01-05

Porous silicon is rapidly attracting increasing interest from various fields including optoelectronics, microelectronics, photonics, medicine, chemistry and biosensing. This nanostructured and biodegradable material has a range of unique properties that make it ideal for many applications. For example, the pores and surface chemistry of the material.

**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 is the third of a

**Introduction to Microfabrication** Sami Franssila, 2010-10-29

This accessible text is now fully revised and updated, providing an overview of fabrication technologies and materials needed to realize modern microdevices. It demonstrates how common microfabrication principles can be applied in different applications to create devices ranging from nanometer probe tips to meter scale solar cells and a host of microelectronic, mechanical, optical and fluidic devices in between. Latest developments in wafer engineering, patterning, thin films, surface preparation and bonding are covered. This second edition includes expanded sections on MEMS and microfluidics, related fabrication issues, new chapters on polymer and glass microprocessing as well as serial processing techniques. 200 completely new and 200 modified figures, more coverage of imprinting techniques, process integration and economics of microfabrication. 300 homework exercises including conceptual thinking, assignments, order of magnitude estimates, standard calculations and device design and process analysis problems. Solutions to homework problems on the complementary website as well as PDF slides of the figures and tables within the

book With clear sections separating basic principles from more advanced material this is a valuable textbook for senior undergraduate and beginning graduate students wanting to understand the fundamentals of microfabrication The book also serves as a handy desk reference for practicing electrical engineers materials scientists chemists and physicists alike [www.wiley.com/go/Franssila\\_Micro2e](http://www.wiley.com/go/Franssila_Micro2e)

**New Developments in Porous Silicon: Relation with Other Nanostructured Porous Materials** European Materials Research Society. Meeting, 1997-12-18 The symposium entitled New Developments in Porous Silicon Relation with Other Nanostructured Porous Materials took place in Strasbourg on 4-7 June 1996 hosted by the EMRS Society Its objectives were to assess the recent developments in porous silicon research and make the porous Si community more aware of related porous materials The 71 papers contained in these proceedings account for about 80% of the work presented at the meeting and cover nine different topic areas Chapter 1 focuses on some recent advances in porous Si fabrication and a new formation mechanism involving specific point defects extensions to the basic anodization process for preparing macropore arrays multilayers as well as both thin and thick high porosity layers and the realisation of luminescent porous structures from device quality Si-H material Controlled chemical modification of the internal surface of porous Si an important emerging technique for both stabilising understanding and introducing new functionality into the properties of the material is discussed in chapter 2 along with the new and exciting developments taking place in the nanocomposites area The papers in chapter 3 discuss photochemical effects properties of wet and dry porous Si layers and new approaches to characterising wet material along with an important highlight of the symposium blue emission in oxide free layers Chapter 4 covers many new developments and the refining of existing techniques regarding characterising porous Si and chapter 5 reviews the luminescent silicon nanostructures that have been fabricated other than anodization The presentation of various porous materials and overviews on the fabrication characterisation and applications of porous alumina are covered in chapter 6 and chapter 7 focuses on the growing interest in porous Si multilayer structures and the potential for realising practical SiLEDs with chapter 8 covering the work that has been presented in this field New applications for porous Si materials which has an enormous world wide interest is discussed in the final chapter of the proceedings

**Semiconductors and Electronic Materials** Andreas Mandelis, Peter Hess, 2000 Semiconductors and electronic materials have benefitted from photoacoustic and photothermal techniques since the late 1970s This volume the fourth in a series on photothermal and photoacoustic science and technology PPST presents a comprehensive review of the diverse progress made in PPST of semiconductors and electronic materials during the 1990s The 10 chapters review leading research activities in several subfields of PPST These include applications of novel analytical and/or experimental techniques to traditional semiconductor materials and devices as well as applications of conventional techniques to novel materials and devices As with other volumes in the series this text is useful as a reference for practising scientists and engineers and as a supplement to upper level graduate courses in various areas of PPST and its subfields

**Materials & Process Integration for MEMS** Francis E. H.

Tay,2002-08-31 The field of materials and process integration for MEMS research has an extensive past as well as a long and promising future Researchers academicians and engineers from around the world are increasingly devoting their efforts on the materials and process integration issues and opportunities in MEMS devices These efforts are crucial to sustain the long term growth of the MEMS field The commercial MEMS community is heavily driven by the push for profitable and sustainable products In the course of establishing high volume and low cost production processes the critical importance of materials properties behaviors reliability reproducibility and predictability as well as process integration of compatible materials systems become apparent Although standard IC fabrication steps particularly lithographic techniques are leveraged heavily in the creation of MEMS devices additional customized and novel micromachining techniques are needed to develop sophisticated MEMS structures One of the most common techniques is bulk micromachining by which micromechanical structures are created by etching into the bulk of the substrates with either anisotropic etching with strong alkali solution or deep reactive ion etching (DRIE) The second common technique is surface micromachining by which planar microstructures are created by sequential deposition and etching of thin films on the surface of the substrate followed by a final removal of sacrificial layers to release suspended structures Other techniques include deep lithography and plating to create metal structures with high aspect ratios LIGA micro electrodischarge machining (J 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 various 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 reflectance 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 *Ordered Porous Nanostructures and Applications* Ralf B. Wehrspohn, 2006-06-14 Reviews the most

interesting materials on the market concerning self ordering including macroporous silicon porous alumina MCM41 and photonic bandgap      *Porous Silicon* Ghenadii Korotcentkov,2015-11-09 Although porous silicon is rapidly attracting increasing interest in various fields there is currently no up to date general introduction to basic properties and potential applications Until now This book focuses on the fundamentals of silicon porosification and properties of porous silicon including electrical luminescence optical thermal properties Processing of porous silicon also will be discussed in this part Comprehensive and up to date this is a technical resource and guide for all those involved in the research development and application of porous silicon in various areas of science and technology      **21st Century Nanoscience - A Handbook** Klaus D. Sattler,2020-04-22 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This ninth volume in a ten volume set covers industrial applications Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond



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web demeter in greek religion a consort of zeus and the goddess of agriculture especially grain though rarely mentioned by homer and not an olympian deity she is probably an ancient goddess she is best remembered for her role in the story of persephone in which her lack of attention to the harvest causes a famine

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