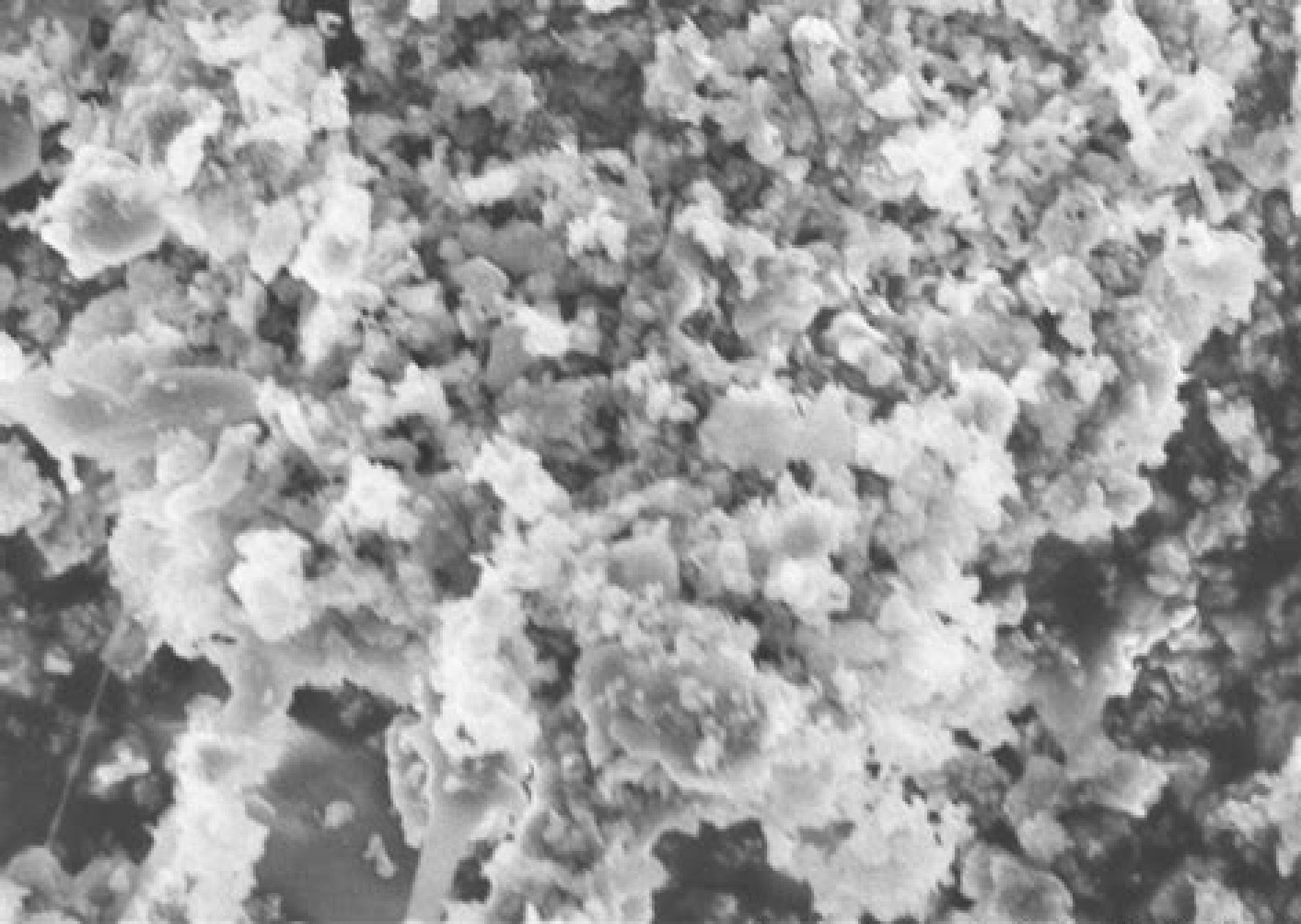




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Porous Silicon

Ghenadii Korotcenkov



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Porous Silicon: Material, Technology and Devices H. Münder, 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

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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 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 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 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

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for many applications For example the pores and surface chemistry of the mater 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 P Si a Si c Si device applications future developments

Properties of Porous Silicon Leigh T. Canham,2006

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Table of Contents Porous Silicon

1. Understanding the eBook Porous Silicon
 - The Rise of Digital Reading Porous Silicon
 - Advantages of eBooks Over Traditional Books
2. Identifying Porous Silicon
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Porous Silicon
 - User-Friendly Interface
4. Exploring eBook Recommendations from Porous Silicon
 - Personalized Recommendations
 - Porous Silicon User Reviews and Ratings
 - Porous Silicon and Bestseller Lists
5. Accessing Porous Silicon Free and Paid eBooks
 - Porous Silicon Public Domain eBooks
 - Porous Silicon eBook Subscription Services

- Porous Silicon Budget-Friendly Options
- 6. Navigating Porous Silicon eBook Formats
 - ePub, PDF, MOBI, and More
 - Porous Silicon Compatibility with Devices
 - Porous Silicon Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Porous Silicon
 - Highlighting and Note-Taking Porous Silicon
 - Interactive Elements Porous Silicon
- 8. Staying Engaged with Porous Silicon
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Porous Silicon
- 9. Balancing eBooks and Physical Books Porous Silicon
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Porous Silicon
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Porous Silicon
 - Setting Reading Goals Porous Silicon
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Porous Silicon
 - Fact-Checking eBook Content of Porous Silicon
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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