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Part I: Fundamentals of porous silicon for biomedical applications 1 - Porous silicon for medical use: from conception to clinical use. Pages 3 - 20 The first in vitro evidence that... 2 - Thermal stabilization of porous silicon for biomedical applications. Thermal stabilization is commonly used ...

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Porous Silicon for Biomedical Applications Table of Contents. Porous silicon has a range of properties, making it ideal for drug delivery, cancer therapy, and... Key Features. Readership. Details. Hélder A. Santos is a Professor in Pharmaceutical Nanotechnology, Principal Investigator/Group ...

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Abstract. In the past two decades, porous silicon (PSi) has attracted increasing attention for its potential biomedical applications. With its controllable geometry, tunable nanoporous structure, large pore volume/high specific surface area, and versatile surface chemistry, PSi shows significant advantages over conventional drug carriers.

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Chapters in part one focus on the fundamentals and properties of porous silicon for biomedical applications, including thermal properties and stabilization, photochemical and nonthermal chemical modification, protein-modified porous silicon films, and biocompatibility of porous silicon. Part two discusses applications in bioimaging and sensing, and explores the optical properties of porous silicon materials; in vivo imaging assessment and radiolabelling of porous silicon; and nanoporous ...

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Porous silicon has a range of properties, making it ideal for drug delivery, cancer therapy, and tissue engineering. Porous Silicon for Biomedical Applications provides a comprehensive review of this emerging nanostructured and biodegradable biomaterial.. Chapters in part one focus on the fundamentals and properties of porous silicon for biomedical applications, including thermal properties ...

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Medical Applications. The exciting world of nanotherapeutics is among us. Due to the biocompatibility and biodegradability of porous Silicon, new applications on and within the human body are now possible. Silicon is one of the many minerals that a body needs to stay healthy. Using this Advantage, porous Silicon can be used for medicine vessels carrying therapeutics to targeted areas of the body. pSi, once oxidized, is very compatible with a variety of liquid substances.

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The research on porous silicon (PSi) materials for biomedical applications has expanded greatly since the early studies of Leigh Canham more than 25 years ago. Currently, PSi nanoparticles are receiving growing attention from the scientific biomedical community.

~~Porous silicon nanoparticles for nanomedicine: preparation ...~~

This work describes the formation of porous composite materials based on a combination of bioactive mesoporous silicon and bioerodible polymers such as polycaprolactone (PCL). The fabrication of a range of composites prepared by both salt leaching and microemulsion techniques are discussed.

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The GREMAN laboratory is affiliated to the University of Tours, the INSA-CVL and the CNRS. One of the teams in the GREMAN works on porous silicon synthesis and characterization since 2004 [Canham_2014]. This material can be utilized as magnetic therapeutic vector [Prestidge_2007]. Reduced in micro- or nanoparticles, porous silicon has been demonstrated to be a biocompatible