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Buy Porous Silicon for Biomedical Applications (Woodhead Publishing Series in Biomaterials) 1 by Santos, Helder A. (ISBN: 9780857097118) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

## ~~Porous Silicon for Biomedical Applications (Woodhead ...~~

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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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.

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This work describes the formation of

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porous composite materials based on a combination of bioactive mesoporous silicon and bioerodible polymers such as poly( $\epsilon$ -caprolactone (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

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