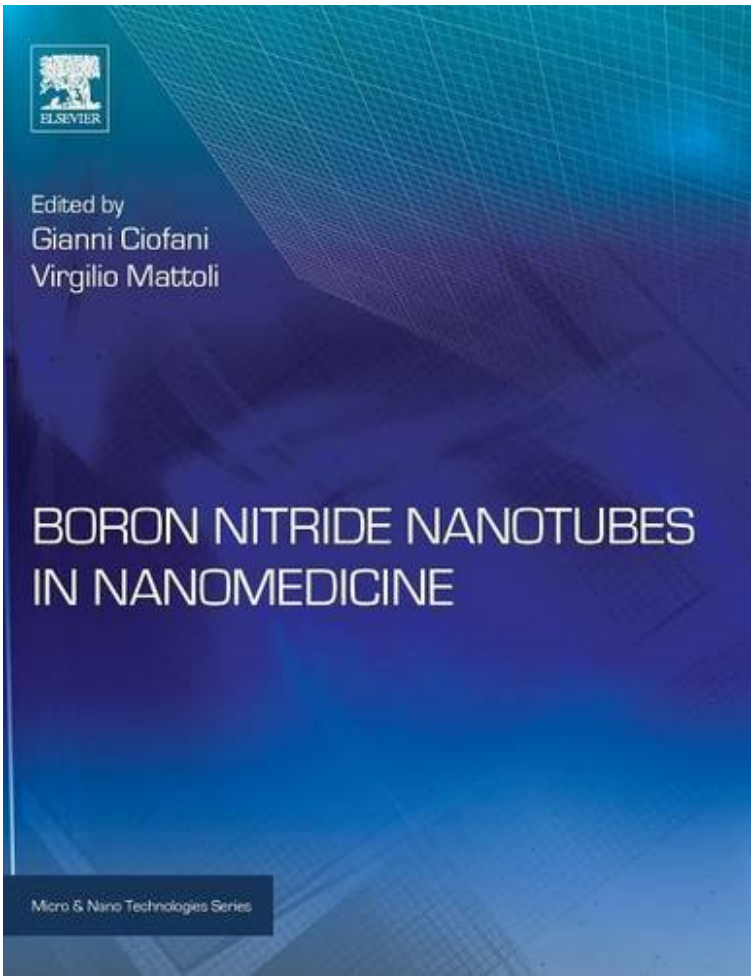
Boron Nitride Nanotubes in Nanomedicine (Micro and Nano Technologies)



#9657659 in Books Ingramcontent 2016-05-05Original language:EnglishPDF # 1 9.25 x .63 x 7.52l, 1.61 #File Name: 0323389457246 pagesBoron Nitride Nanotubes in Nanomedicine Micro and Nano Technologies | File size: 79.Mb

From Ingramcontent : Boron Nitride Nanotubes in Nanomedicine (Micro and Nano Technologies) before purchasing it in order to gage whether or not it would be worth my time, and all praised Boron Nitride Nanotubes in Nanomedicine (Micro and Nano Technologies):

Boron Nitride Nanotubes in Nanomedicine compiles, for the first time in a single volume, all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine. Boron nitride nanotubes (BNNTs) represent an innovative and extremely intriguing class of nanomaterials. After introducing

BNNTs and explaining their preparation and evaluation, the book shows how the physical, chemical, piezoelectric and biocompatibility properties of these nanotubes give rise to their potential uses in biomedicine. Evidence is offered (from both in vitro and in vivo investigations) for how BNNTs can be useful in biomedical and nanomedicine applications such as therapeutic applications, tissue regeneration, nanovectors for drug delivery, and intracellular nanotransducers.Covers a range of promising biomedical BNNT applicationsProvides great value not just to academics but also industry researchers in fields such as materials science, molecular biology, pharmacology, biomedical engineering, and biophysical sciencesOffers evidence for how BNNTs can be useful in biomedical and nanomedicine applications such as therapy, tissue regeneration, nanovectors for drug delivery, and intracellular nanotransducersIncorporates, for the first time in a single volume, all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine

About the AuthorGianni Ciofani (born on August 14th, 1982) is Associate Professor at the Polytechnic University of Torino, Department of Mechanical and Aerospace Engineering (Torino, Italy) and Affiliated Researcher at the Italian Institute of Technology (IIT), Center for Micro-BioRobotics @SSSA (Pontedera, Pisa, Italy).He received his Master Degree in Biomedical Engineering (with honors) from the University of Pisa, Italy, in July 2006, with an experimental thesis on a polymeric microparticle system for drug delivery of neurotrophic factors. In the same year, he obtained his Diploma in Engineering (with honors) from the Scuola Superiore SantAnna (SantAnna School of Advanced Studies) of Pisa, Italy, with an experimental thesis on carbon nanotube-mediated cell electroporation. From July 2006 to January 2010 he collaborated with the CRIM Lab of the Scuola Superiore SantAnna, formerly as Research Assistant and then as Ph.D. student, working on micro- and nanosystems for drug delivery and cell surgery. He also spent research periods as visiting Ph.D. student at the Waseda University (Tokyo, Japan) and at the Center of Investigation Principe Felipe (Valencia, Spain). In January 2010, he obtained his Ph.D. in Innovative Technologies (with honors) from the Scuola Superiore SantAnna. From January 2010 to August 2013 he was Post-Doc at the IIT, Center for Micro-BioRobotics @SSSA (Pontedera, Pisa, Italy), where, from September 2013 to October 2015, he was a Researcher in the framework of the Smart Materials Platform. In October 2015 he was appointed Associate Professor at the Polytechnic University of Torino (Torino, Italy), maintaining his research activity in IIT as Affiliated Researcher.His main research interests are in the field of innovative materials for nanomedicine, bio/non-bio interactions, regenerative medicine, and biohybrid devices. For his research activity, he has been awarded several national and international prizes. In collaboration with the European Space Agency, he is also carrying out researches on human physiology and cell biology in altered gravity conditions.Gianni Ciofani is author or co-author of about 80 ISI papers (H-index 18, excluding self-citations), two edited book, 12 book chapters, 2 applications of international patents and several communications to international conferences. He serves as er for about 90 international journals and is an Editorial Board Member of the International Journal of Biological Engineering, of Advances in Nano Research, and Senior Editor of Nanomaterials Nanosciences.Virgilio Mattoli received his Laurea degree in chemistry (with honours) from the University of Pisa and the Diploma in Chemistry from the Scuola Normale Superiore of Pisa in 2000. In 2005 he received his PhD in bio-engineering (with honours) from Scuola Superiore SantAnna, with a thesis focused on the control and integration of miniaturized devices for environmental application. In 2004 he was visiting researcher at the University of Stanford, Center for Design Research, where he focused his activity on sensors and controls modules for biomimetic robotics applications. In 2005 and 2008 he was a short term visiting researcher at Waseda University (Tokyo, Japan) working on a bio-inspired mini-robot and on development of ultra-conformable polymeric films. From June 2008 to October 2009 he obtained a temporary position of Assistant Professor of bioengineer engineering at the Scuola Superiore SantAnna (SSSA). Since November 2009, he has been a Team Leader of the Smart Materials Platform in the Center for Micro-BioRobotics of the Istituto Italiano di Tecnologia. His main research interests include: smart and bio-inspired materials, nanomaterials, ultra-thin polymeric films, thin film sensors, sensor conditioning, miniaturised acquisition system and biorobotics. He is currently involved in several research projects on these topics. He is author or co-author of more than seventy articles on ISI journals, of more than forty full papers published in peer-reviewed international conferences proceedings and of several deposited patents.