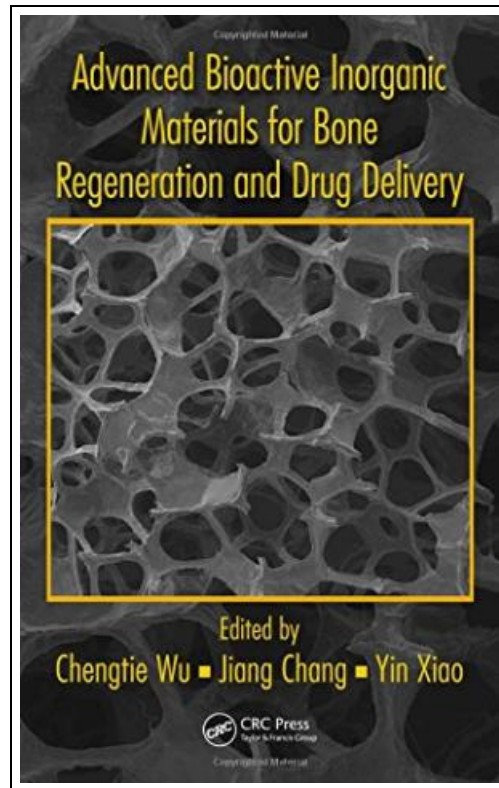


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Reviews

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ADVANCED BIOACTIVE INORGANIC MATERIALS FOR BONE REGENERATION AND DRUG DELIVERY (HARDBACK)



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Taylor Francis Inc, United States, 2013. Hardback. Condition: New. Language: English . Brand New Book. Bioceramics play an important role in repairing and regenerating defective or damaged bone. Annually, more than 500,000 bone graft procedures are performed in the United States and approximately 2.2 million are conducted worldwide. *Advanced Bioactive Inorganic Materials for Bone Regeneration and Drug Delivery* reviews the latest advances in the field of bioceramics. The book summarizes innovative concepts, bioceramic design, and methods for material synthesis and drug delivery. Offering guidance for biomedical engineering researchers and material scientists, the book explores: * Novel mesoporous bioactive glasses and silicate-based ceramics for bone regeneration and drug delivery * Bioactive silicate ceramics, including their mechanical properties, interaction with bone-forming cells, and in vivo osteogenesis and angiogenesis * Silica nanospheres with a core-shell structure and their specific properties for controllable drug delivery * The 3D-printing technique to prepare advanced bioceramic scaffolds for bone tissue engineering applications-including the preparation, mechanical strength, and biological properties of 3D-printed porous scaffolds of calcium phosphate cement and silicate bioceramics * Biomimetic preparation and controllable crystal growth and biomineralization of bioceramics * Inorganic and organic composite materials and their unique biological, electrical, and mechanical properties that enable the design of excellent bone regeneration and gene delivery systems A comprehensive survey of the research progress of bioceramics and their applications in bone repair and regeneration, this volume is designed to enhance study and career development for those in this field and to facilitate further research and opportunities for new solutions.



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