

1. Record Nr.	UNINA9910821360903321
Autore	Barinov S. M (Sergei Mironovich)
Titolo	Calcium phosphate based bioceramics for bone tissue engineering // Sergey Barinov and Vladimir Komlev
Pubbl/distr/stampa	Stafa-Zuerich, Switzerland ; ; Enfield, New Hampshire : , : Trans Tech Publications, , [2008] ©2008
ISBN	3-03813-237-3
Descrizione fisica	1 online resource (166 p.)
Collana	Materials science foundations, , 1422-3597 ; ; volume 48
Disciplina	612.028
Soggetti	Bone regeneration Tissue engineering Biomedical materials Ceramics in medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (pages 143-159).
Nota di contenuto	Basic concept of bone tissue engineering using ceramic scaffolds / Sergej M. Barinov, Vladimir S. Komlev -- Calcium orthophosphates / Sergej M. Barinov, Vladimir S. Komlev -- Synthesis and sintering of calcium orthophosphate powders / Sergej M. Barinov, Vladimir S. Komlev -- Calcium phosphate based materials / Sergej M. Barinov, Vladimir S. Komlev -- Some aspects of calcium phosphates scaffolds investigation by x-ray microtomography / Sergej M. Barinov, Vladimir S. Komlev.
Sommario/riassunto	Tissue engineering is a new biotechnology that combines various aspects of medicine, biology and engineering, in order to produce, repair or replace human tissue. It is therefore easy to grasp the potential of these new therapies in helping to improve the quality-of-life of patients suffering from rare diseases. Typically, bone tissue engineering approaches foresee the use of scaffolding material combined with tissue cells. An advanced scaffolding material for tissue engineering must exhibit high quality, reliability, sustainability and cost-effectiveness throughout the individual's life and p

