

1. Record Nr.	UNINA9910778307503321
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Titolo	Biomimetic nanoceramics in clinical use [[electronic resource] ] : from materials to applications // Maria Vallet-Regi and Daniel Arcos
Pubbl/distr/stampa	Cambridge, UK, : RSC Pub., c2008
ISBN	1-84755-892-5
Descrizione fisica	1 online resource (186 p.)
Collana	RSC nanoscience & nanotechnology
Altri autori (Persone)	ArcosDaniel
Disciplina	617.4710592
Soggetti	Ceramics in medicine Apatite in the body Biomimetics Bone substitutes Nanomedicine
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 and index.
Nota di contenuto	9780854041428_publicity; i_iv; v_vi; vii_x; xi_xii; 001_024; 025_060; 061_121; 122_163; 164_173
Sommario/riassunto	Recent developments in nanostructured materials have led to a shift in focus away from the replacement of tissues and towards regeneration. Nanoceramics with biomimetic properties have great potential in bone regeneration and new synthesis strategies have been developed to obtain materials with improved biocompatibility and multifunctional performance. The aim is to develop fully biocompatible implants, which exhibit biological responses at the nanometric scale in the same way that biogenic materials do. Current man-made implants are not fully biocompatible and always result in a foreign body