

1. Record Nr.	UNINA9910830190003321
Titolo	Advances in bioceramics and biocomposites II [[electronic resource]] : a collection of papers presented at the 30th International Conference on Advanced Ceramics and Composites, January 22-27, 2006, Cocoa Beach, Florida // editor, Mineo Mizuno ; general editors, Andrew Wereszczak, Edgar Lara-Curzio
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2007
ISBN	1-282-31333-9 9786612313332 0-470-29135-4 0-470-29177-X
Descrizione fisica	1 online resource (168 p.)
Collana	Ceramic engineering and science proceedings, , 0196-6219 ; ; v. 27/6
Altri autori (Persone)	MizunoMineo <1944-> WereszczakAndrew Lara-CurzioEdgar <1963->
Disciplina	610.28 620.14
Soggetti	Biomedical materials Ceramics in medicine Ceramic materials Composite materials
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	Advances in Bioceramics and Biocomposites II; Contents; Preface; Introduction; In Vitro Evaluation; Initial In Vitro Interaction of Human Osteoblasts with Nanostructured Hydroxyapatite (NHA); Osteoblast Response to Zinc-Doped Sintered p-Tricalcium Phosphate; Determination of the Spatial Resolution of Micro-Focus X-Ray CT System with a Standard Specimen; Processing of Biomaterials; Hydroxyapatite Hybridized with Metal Oxides for Biomedical Applications; Preparation of Self-setting Cement-Based Micro- and Macroporous Granules of Carbonated Apatitic Calcium Phosphate A Self-setting, Monetite (CaHPO ₄) Cement for Skeletal RepairChemically Bonded Ceramics Based on Ca-Aluminates as Biomaterials; A

Theoretical and Mathematical Basis Towards Dispersing Nanoparticles and Biological Agents in a Non Polar Solvent for Fabricating Porous Materials; Preparation of Hydroxyapatite and Calcium Phosphate Bioceramic Materials from the Aqueous Solution at Room Temperature; Hydroxyapatite Coatings Produced by Plasma Spraying of Organic Based Solution Precursor; Visible-Light Photocatalytic Fibers for Inactivation of Pseudomonas Aeruginosa
Precipitation Mechanisms of Hydroxyapatite Powder in the Different Aqueous Solutions
Conversion of Bioactive Silicate (45S5), Borate, and Borosilicate Glasses to Hydroxyapatite in Dilute Phosphate Solution; Dental Ceramics; Variable Frequency Microwave (VFM) Processing: A New Tool to Crystallize Lithium Disilicate Glass; Author Index

Sommario/riassunto

The use of ceramics in biological environments and biomedical applications is of increasing importance, as is the understanding of how biology works with minerals to develop strong materials. These proceedings contain papers that discuss the interface between biology and materials, presented at the Proceedings of the 30th International Conference on Advanced Ceramics and Composites, January 22-27, 2006, Cocoa Beach, Florida. Organized and sponsored by The American Ceramic Society and The American Ceramic Society's Engineering Ceramics Division in conjunction with the Nuclear and Environmental
