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| Altri autori (Persone)  | KrivenWaltraud M<br>MizunoMineo <1944-><br>ZhuDongming  |
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| Soggetti                | Biomedical materials<br>Ceramic materials<br>Ceramics in medicine<br>Composite materials<br>Electronic books.   |
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| Nota di contenuto       | Advances in Bioceramics and Biocomposites; Contents; Preface; Processing of Biomaterials; Preparation and Boactive Characteristics of Porous Borate Glass Substrates; Processing of Thermally Sprayed Tricalcium Phosphate (TCP) Coatings on Bioresorbable Polymer Implants; Synthesis and Sintering Studies of Nanocrystalline Hydroxyapatite Powders Doped with Magnesium and Zinc; Sequence Specific Morphological Control Over the Formation of Germanium Oxide During Peptide Mediated Synthesis; Synthesis of Nano-Size Hydroxyapatite (HAP) Powders by Mechanical Alloying |

Dry High Speed Milling as a New Machining Technology of Ceramics for Biomedical and Other Applications; Biomaterials, Performance and Testing; Nanoceramics Intercalated with Gd-DTPA For Potential Imaging of Systems In Vivo; Nanophase Hydroxyapatite Coatings on Titanium for Improved Osteoblast Functions; A Comparative Evaluation of Orthopaedic Cements in Human Whole Blood; Self-setting Orthopedic Cement Compositions Based on CaHP04 Additions to Calcium Sulphate; Adhesive Strength of the Apatite Layer Formed on TiO<sub>2</sub> Nanoparticled High Density Polyethylene Composites; Effect of Reinforcements on Properties of Self-setting Calcium Phosphate Cement; The Bioactivity of PDMS-CaO-SiO<sub>2</sub> Based Hybrid Materials Prepared by the Addition of Transition Metal Alkoxides; In Vitro Comparison of the Apatite Inducing Ability of Three Different SBF Solutions on Ti6Al4V; In Situ and Long Term Evaluation of Calcium Phosphate Cement Behavior in Animal Experiment; Resorption Rate Tunable Bioceramic: Si&Zn-Modified Tricacium Phosphate; Dental Ceramics; Microleakage of a Dental Restorative Material Based on Biominerals; A Comparative Study of the Microstructure-Property Relationship in Human Adult and Baby Teeth; Author Index

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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. Specific information about biomimetics, and processing, performance and interactions of materials for biomedical applications is presented in this collection.

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