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| Altri autori (Persone)  | NarayanRoger<br>ColomboPaolo<br>HalbigMichael<br>MathurSanjay  |
| Disciplina              | 610.28/4<br>610.284<br>666   |
| Soggetti                | Biomedical materials<br>Ceramics in medicine<br>Porous materials<br>Ceramic materials<br>Composite materials   |
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| Livello bibliografico   | Monografia   |
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| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Advances in Bioceramics and Porous Ceramics V; Contents; Preface; Introduction; BIOCERAMICS; Effect of Precursor Solubility on the Mechanical Strength of HAP Block; Carbonate Apatite Formation during the Setting Reaction of Apatite Cement; In Vitro Evaluation of Silicate                  |

and Borate Bioactive Glass Scaffolds Prepared by Robocasting of Organic-Based Suspensions; Translucent Zirconia-Silica Glass Ceramics for Dental Crowns; Using Microfocus X-Ray Computed Tomography to Evaluate Flaws in Ceramic Dental Crowns; Residual Stress and Phase Transformation in Zirconia Restoration Ceramics  
Heterogeneous Structure of Hydroxyapatite and In Vitro Degradability Aspects of Antibacterial Properties of Nanostructural Calcium Aluminate Based Biomaterials; Potential Toxicity of Bioactive Borate Glasses In-Vitro and In-Vivo; Fabrication of Carbonate Apatite-PLGA Hybrid Foam Bone Substitute; UV-Irradiation Modifies Chemistry of Anatase Layer Associated with In Vitro Apatite Nucleation; Preparation of Magnesium Containing Bioactive TiO<sub>2</sub> Ceramic Layer on Titanium by Hydrothermal Treatment; Millimeter-Sized Granules of Brushite and Octacalcium Phosphate from Marble Granules  
Microstructures and Physical Properties of Biomimetic SiSiC Ceramics Manufactured Via LSI-Technique  
Biofluid Flow Simulation of Tissue Engineering Scaffolds with Dendrite Structures; POROUS CERAMICS; Multifunctional Carbon Bonded Filters for Metal Melt Filtration; Failure and Stiffness Analysis of Ceramic from a 25-mm Diameter Diesel Particulate Filter; Development of Porous SiC with Tailorable Properties; Obtaining Porous Corundum Ceramics by Utilization of Waste Rice Husk-Investigation of Composition, Structure and Thermal Degradation of Rice Husk  
Processing, Microstructure and Properties of Reticulated Vitreous Carbon Foam Manufactured Via the Sponge Replication Technique  
Air-Atmosphere Sintering of Si<sub>3</sub>N<sub>4</sub>-Based Porous and Foamed Ceramics; Comparison of Elastic Moduli of Porous Cordierite by Flexure and Dynamic Test Methods; Author Index

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Sommario/riassunto

This issue of the Ceramic Engineering and Science Proceedings is one of nine issues published based on content presented in January 2012, during the 36th International Conference on Advanced Ceramics and Composites (ICACC). It features papers from two popular symposia held during the ICACC meeting: Next-Generation Bioceramics explores new research into ceramic materials designed to support and enhance the treatment of dental and medical disorders; Porous Ceramics: Novel Developments and Applications examines some of the latest advances and innovations in processing methods and

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