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Autore	DHinds-Howell, David
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Nota di contenuto	Bioceramics: Materials and Applications IV; Contents; Preface; Sosman Lecture; The Role of Ceramics in an Age of Biology; Processing and Characterization of Phosphate Bioceramics; A Review of Bone Substitutes in Bone Remodeling: Influence of Materials Chemistry and Porosity; Manufacturing of Thermally Sprayed Tricalcium Phosphate Coatings for Biomedical Applications; Hydrothermal Deposition of Hydroxyapatite Coatings on Glass and Ceramics; Porous Hydroxyapatite Containing Silicon Derived from Natural Coral; Electrochemical Deposition and Patterning of Calcium Phosphate Bioceramic Coating Oxide Based Sintering Additives for HAp CeramicsSynthesis, Characterization and Sintering Behavior of Calcium Hydroxyapatite

Powders with Average Particle Diameters of 150nm; Microstructure of Hydroxyapatite Thick Film; Molecularly Dispersed Hydroxyapatite Polymer Nanocomposites; Interactions between Ceramics and Biological Environments; Effects of Organic Molecules In Kokubo's Simulated Body Fluid on Apatite Formation on Bioactive Glass and Titanium Substrates; Hydroxy-Carbonate Apatite Synthesis, Blood Compatibility and Adsorption of Specific Pathogenic Proteins
In Vitro Stability Predictions of Osteoblast Interaction with Hydroxyapatite and - Tricalcium Phosphate
Two and 10 Year Retrievals of Zirconia Femoral Heads: XRD, SEM and Raman Spectroscopy Studies; Phase Transformation and Residual Stresses In Retrieved Zirconia Hip Implants - A Raman Microprobe Spectroscopy Study; BioLubrication Phenomena (Proteins) May Control the Wear Performance of Zirconia Hip Joints; Index

Sommario/riassunto

The content from these proceedings comes from a symposium honoring Larry Hench, a pioneer in the field of bioceramics. Prof. Hench has condensed his Sosman Lecture into the keynote paper of this volume. In addition, this proceedings draws together research in the different aspects of bioceramics and illustrates its unifying themes. Apatites and active bone substitute materials are well represented, with extended analyses of processing effects and variations in making these materials more functional. Included in this volume are a series of papers on interactions between ceramics and biological
