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Autore	Van Schoor Marthinus (Aerospace enginner)
Titolo	Investigation of adaptive control approaches to mitigate shock impact with piezoceramics (armor) / / by Marthinus van Schoor and Jacob Pretorius ; prepared by Mide Technology Corporation
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Soggetti	Impact Shock waves Armor Piezoelectric ceramics
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2.	Record Nr.	UNIORUON00511363
	Titolo	Vocabulaire francais, oromo, abyssin
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	Descrizione fisica	XVI, 127 p. ; 23 cm
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3.	Record Nr.	UNINA9910984623703321
	Autore	Iafisco Michele
	Titolo	Bioceramics
	Pubbl/distr/stampa	Zurich : , : Trans Tech Publications, Limited, , 2021 ©2021
	ISBN	9783035735857 3035735859
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	Descrizione fisica	1 online resource (659 pages)
	Collana	Specialized Collections ; ; v.Volume 15
	Altri autori (Persone)	BainoFrancesco KolisnychenkoStanislav
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	Nota di contenuto	Intro -- Bioceramics -- Preface -- Table of Contents -- Chapter 1: Calcium Phosphate Bioceramic Materials -- Influence of Zinc Substitution on Hydroxyapatite Structure Prepared by Chemical Precipitation Method -- Characteristic, Microstructure and Properties of Dense Hydroxyapatite Ceramic from Cockle Shell for Biomaterials -- Characterization of Hydrothermal Processing Influence on Strontium

Substituted Apatite by Investigating Stable Oxygen Isotope Ratio and Antibacterial Activity of Obtained Peroxyapatite -- The Influence of Microstructure on the Surface Charge of Sintered Hydroxyapatite Ceramics -- Hydrothermal Processing for Increasing the Hydroxyl Ion Concentration in Hydroxyl Depleted Hydroxyapatite -- Comparison of Different Classical and Instrumental Analysis Methods for Precise Quantification of Calcium and Phosphorous Ratio in Hydroxyapatite -- Production and Characterization of Oxyhydroxyapatites -- Characteristics of Abalone Mussel Shells (*Haliotis asinina*) with Calcination Temperature Variations as a Basic Material for Synthesis of Carbonated Hydroxyapatite -- The Effect of pH on the Characteristics of Carbonate Hydroxyapatite Based on Pearl Shell (*Pinctada maxima*) -- Effect of Sintering Temperature on Carbonated Hydroxyapatite Derived from Common Cockle Shells (*Cerastoderma edule*): Composition and Crystal Characteristics -- Extraction of Biological Apatite from Cow Bone at Different Calcination Temperatures: A Comparative Study -- In Vitro Resorbability of 3D Printed Hydroxyapatite in Two Different pH Buffered Solutions -- A Comparative Study of Granular Agglomeration between 3D Printed Hydroxyapatite and Commercial Bone Graft Granules -- Enhancing the Phase Conversion of Hydroxyapatite from Calcium Sulphate Hemihydrate by Hydrothermal Reaction. Experimental Investigation on Synthesis of Nanocrystalline Hydroxyapatite by the Mechanochemical Method -- Development of Mesoporous Magnetic Hydroxyapatite Nanocrystals -- Unique Dicarboxylate Ion Incorporation in Octacalcium Phosphate -- Synthesis and Characterization of Novel Crystalline Mesoporous Beta-Tricalcium Phosphate Nanoparticles -- Processing and Properties of Biphasic Calcium Phosphates Bioceramics Derived from Biowaste Materials -- Study of Carbonated Calcium Phosphate Precipitation on Collagen -- Chapter 2: Bioactive Glasses and Glass-Ceramics -- Antibacterial Properties among Different Concentration of Bioactive Glasses -- Bioactivity and Antibacterial Studies on Silver Nanoparticles Embedded Calcium Borosilicate Ceramics -- Influence of Thermal Treatment Temperature on Phase Formation and Bioactivity of Glass-Ceramics Based on the $\text{SiO}_2\text{-Na}_2\text{O-CaO-P}_2\text{O}_5$ System -- Crystallization Kinetics and Heat Treatment Temperature on Microstructure of $\text{Na}_2\text{O-CaO-P}_2\text{O}_5\text{-TiO}_2$ Glass System -- Preparation of Calcium Phosphate Glasses Containing Nb_2O_5 and TiO_2 -- Fabrication of Mesoporous Bioactive Glass Nanoparticles by Sol-Gel Method -- Fabrication of Bioactive Glass with Titanium Ion Doping via Various Reactive Environments -- Chapter 3: Other Types of Bioceramic Materials -- Analysis of the Effect of Cyclic Fatigue on the Flexural Strength of a Ceramoceramic System Used in Dental Prostheses -- ZrO_2 Pre-Sintered Blocks (3%mol- Y_2O_3) with Color Gradient for Dental Prostheses -- Ceramics and Glass-Ceramics Dental Materials: Chemical Solubility, Cytotoxicity and Mechanical Properties -- Understanding Silicon Nitride's Biological Properties: From Inert to Bioactive Ceramic -- Silicocarnotite Synthesis and Bioactivity in Artificial Saliva Medium. Bioceramics are Not Bioinert: The Role of Oxide and Non-Oxide Bioceramics on the Oxidation of UHMWPE Components in Artificial Joints -- Chapter 4: Scaffolds Based on Bioceramics -- The Effect of Sintering Aid on Fabrication of Three-Dimensional Carbonated Hydroxyapatite Porous Scaffolds -- Porous Hydroxyapatite/Chitosan/Carboxymethyl Cellulose Scaffolds with Tunable Microstructures for Bone Tissue Engineering -- Preparation and Characterization of Ha/Gel/-TCP Microspheres Composite Porous Scaffold -- Using Chitosan Besides Nano Hydroxyapatite and Fluorohydroxyapatite Boost Dental Pulp Stem Cell Proliferation --

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Cementing Line Configuration of Bioactive Engineered Zirconia Implants (In Vivo Histological Study) -- Effect of Interface Damage on Loosening Behavior of Acetabular Cup Subjected to Cyclic Loading -- Biofunctionalization of Ceramic Implant Surfaces to Improve their Bone Ingrowth Behavior -- Ethylene Oxide Sterilization of TiN/TiO₂ Coated Titanium Implant Material -- The Influence of Processing Conditions on the Structure of Magnetron Sputtered Hydroxyapatite Thin Films -- Chapter 6: Bioceramic-Based Composites -- Fracture Behavior as Selection Criterion for Alloplastic Bone Graft Applications -- Injection

Behavior of some Biocomposite Feedstocks -- FTIR and XRD Evaluation of Magnesium Doped Hydroxyapatite/Sodium Alginate Powder by Precipitation Method -- Hydroxyapatite/Polyvinyl Alcohol Composite Hydrogels for Bone and Cartilage Tissue Engineering -- Cotton-Wool-Like Resorbable Bone Void Fillers Containing -TCP and Calcium Carbonate Particles -- Influence of Sintering Temperature on Physical and Mechanical Properties of Hydroxyapatite-Calcium Titanate Composite -- Evaluation of Elution Behavior of Silver Ions from Silver-Containing Carbonate Hydroxyapatite Composites -- Microstructural and Mechanical Properties of Nano-Yttria-Oxide Doped Hydroxyapatite Composites -- Electrical Properties of Clinoptilolite/Aluminium Oxide/Bovine Hydroxyapatite Composites -- Fabrication of Novel Hemostatic Film with Oxidized Cellulose and Sugar-Containing Hydroxyapatite -- Assessing the Physical-Mechanical Characteristics of Hydroxyapatite-Titanium Oxide Biocomposites Produced by the Polymeric Wax Addition Method -- Development and Characterization of Hydroxyapatite-Alumina Biocomposites for Orthopedic Implants -- Fabrication of Hydroxyapatite/Cellulose Fiber Composite with Sheet-Like Structure.
The Effect of Glutaraldehyde on Hydroxyapatite-Gelatin Composite with Addition of Alendronate for Bone Filler Application.

Sommario/riassunto

Aggregated Book.