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Autore	Tate Nahum <1652-1715.>
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Autore	Dorozhkin Sergey V.
Titolo	Calcium orthophosphate-based bioceramics and biocomposites // Sergey V. Dorozhkin
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Related Titles; Title Page; Copyright; Table of Contents; Preface; Part I: Calcium Orthophosphates (CaPO4): Occurrence, Properties, and Biomimetics; Chapter 1: Introduction; References; Chapter 2: Geological and Biological Occurrences; References; Chapter 3: The Members of CaPO4 Family; 3.1 MCPM; 3.2 MCPA (or MCP); 3.3 DCPD; 3.4 DCPA (or DCP); 3.5 OCP; 3.6 -TCP; 3.7 -TCP; 3.8 ACP; 3.9 CDHA (or Ca-def HA, or CDHAp); 3.10 HA (or HAp, or OHAp); 3.11 FA (or FAp); 3.12 OA (or OAp, or OXA); 3.13 TTCP (or TetCP); 3.14 Biphasic, Triphasic, and Multiphasic CaPO4 Formulations 3.15 Ion-Substituted CaPO4References; Chapter 4: Biological Hard Tissues of CaPO4; 4.1 Bone; 4.2 Teeth; 4.3 Antlers; References; Chapter 5: Pathological Calcification of CaPO4; References; Chapter 6: Biomimetic Crystallization of CaPO4; References; Chapter 7: Conclusions and Outlook; References; Part II: Calcium Orthophosphate Bioceramics in Medicine; Chapter 8: Introduction; References; Chapter 9: General Knowledge and Definitions; References; Chapter 10: Bioceramics of CaPO4; 10.1 History; 10.2 Chemical Composition and Preparation; 10.3 Forming and Shaping; 10.4 Sintering and Firing ReferencesChapter 11: The Major Properties; 11.1 Mechanical

Properties; 11.2 Electric/Dielectric and Piezoelectric Properties; 11.3 Possible Transparency; 11.4 Porosity; References; Chapter 12: Biomedical Applications; 12.1 Self-Setting (Self-Hardening) Formulations; 12.2 Coatings, Films, and Layers; 12.3 Functionally Graded Bioceramics; References; Chapter 13: Biological Properties and In Vivo Behavior; 13.1 Interactions with Surrounding Tissues and the Host Responses; 13.2 Osteoinduction; 13.3 Biodegradation; 13.4 Bioactivity; 13.5 Cellular Response; References Chapter 14: Nonbiomedical Applications of CaPO<sub>4</sub> References; Chapter 15: CaPO<sub>4</sub> Bioceramics in Tissue Engineering; 15.1 Tissue Engineering; 15.2 Scaffolds and Their Properties; 15.3 Bioceramic Scaffolds from CaPO<sub>4</sub>; 15.4 A Clinical Experience; References; Chapter 16: Conclusions and Outlook; References; Part III: Biocomposites from Calcium Orthophosphates; Chapter 17: Introduction; References; Chapter 18: General Information and Knowledge; References; Chapter 19: The Major Constituents of Biocomposites and Hybrid Biomaterials for Bone Grafting; 19.1 CaPO<sub>4</sub>; 19.2 Polymers 19.3 Inorganic Materials and Compounds References; Chapter 20: Biocomposites and Hybrid Biomaterials Based on CaPO<sub>4</sub>; 20.1 Biocomposites with Polymers; 20.2 Self-Setting Formulations; 20.3 Formulations Based on Nanodimensional CaPO<sub>4</sub> and Nanodimensional Biocomposites; 20.4 Biocomposites with Collagen; 20.5 Formulations with Other Bioorganic Compounds and/or Biological Macromolecules; 20.6 Injectable Bone Substitutes (IBSs); 20.7 Biocomposites with Glasses, Inorganic Compounds, Carbon, and Metals; 20.8 Functionally Graded Formulations; 20.9 Biosensors; References Chapter 21: Interaction among the Phases in CaPO<sub>4</sub>-Based Formulations

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