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chemically bonded bioceramics; NANOSTRUCTURE DEVELOPED CHEMICALLY BONDED BIOCERAMICS; NANOSTRUCTURES AND MECHANICAL STRENGTH; ADDITIONAL PROPERTY FEATURES OF NANOSTRUCTURAL CHEMICALLY BONDED BIOCERAMICS; NANOSTRUCTURE INCLUDING PHASES AND POROSITY FOR SPECIFIC PROPERTIES; Bioactivity and antibacterial properties simultaneously; APPLICATIONS FOR NANOSTRUCTURAL CHEMICALLY BONDED Ca-ALUMINATE BASED BIOMATERIALS; OUTLOOK; ACKNOWLEDGEMENT; REFERENCES
ANTIMICROBIAL EFFECTS OF FORMABLE GELATINOUS HYDROXYAPATITE-CALCIUM SILICATE NANOCOMPOSITES FOR BIOMEDICAL APPLICATIONSABSTRACT; INTRODUCTION; MATERIALS AND METHODS; Incorporation Of Chlorhexidine In Ca(OH)2 For GEMOSIL; Disc Sample Preparation; Microorganism; Antimicrobial Assay; Agar Diffusion Assay; In-Vitro Cell Cytotoxicity Testing Through MTS; RESULTS AND DISCUSSION; CONCLUSION; ACKNOWLEDGEMENT; REFERENCES; USE OF INTER-FIBRIL SPACES AMONG ELECTROSPUN FIBRILS AS ION-FIXATION AND NANO-CRYSTALLIZATION; ABSTRACT; INTRODUCTION; MATERIALS AND METHODS; RESULTS
Apatite crystallization on the exposure to ammonia vaporEffects of glutaraldehyde cross-link formation on apatite deposition in SBF; Effects of silane (TEOS) coating on the Ca-P deposition in SBF; DISCUSSION; Effects of the vapor treatments; Fixation of other ions and molecules in the spaces; CONCLUSIVE REMARKS; Acknowledgment; REFERENCES; FRACTOGRAPHIC ANALYSIS OF BROKEN CERAMIC DENTAL RESTORATIONS; ABSTRACT; INTRODUCTION; EXPERIMENTAL PROCEDURE; RESULTS; CASE B1: A zirconia bridge; CASE B2: A training course zirconia bridge; CASE B3: A training course four-unit posterior zirconia bridge
CASE B4: A three-unit alumina bridgeCASE B5: Three (or more) unit zirconia bridge; CASE B6: Three-unit e.max Press lithium disilicate bridge; CASE B7: A five-unit zirconia telescoping denture; CASE: C1 Incisor zirconia crown; DISCUSSION; CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; IN VIVO EVALUATION OF SCAFFOLDS WITH A GRID-LIKE MICROSTRUCTURE COMPOSED OF A MIXTURE OF SILICATE (13-93) AND BORATE (13-93B3) BIOACTIVE GLASSES; ABSTRACT; INTRODUCTION; MATERIALS AND METHODS; Fabrication of bioactive glass scaffolds; Characterization of as-fabricated scaffolds; Animals and surgical procedure
Histological processing

Sommario/riassunto

A collection of 15 papers from The American Ceramic Society's 38th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 26-31, 2014. This issue includes papers presented in Symposium 5 - Next Generation Bioceramics and Biocomposites and Symposium 9 - Porous Ceramics: Novel Developments and Applications.