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Do Cell Culture Solutions Transform Brushite (CaHPO42H2O) to Octacalcium Phosphate (Ca8(HPO4)2(PO4)45H2O)?; Hydroxyapatite Scaffolds for Bone Tissue Engineering with Controlled Porosity and Mechanical Strength; Hollow Hydroxyapatite Microspheres for Controlled Delivery of Proteins; Expression of Mineralized Tissue-Associated Proteins is Highly Upregulated in MC3T3-E1 Osteoblasts Grown on a Borosilicate Glass Substrate; POROUS CERAMICS High Porosity In Situ Catalyzed Carbon Honeycombs for Mercury Capture in Coal Fired Power PlantsNot All Microcracks are Born Equal: Thermal vs. Mechanical Microcracking in Porous Ceramics; SiC Foams for High Temperature Applications; Porous SiC Ceramic from Wood Charcoal; Fabrication of Beta-Cristobalite Porous Material from Diatomite with Some Impurities; Microstructural Study of Alumina Porous Ceramic Produced by Reaction Bonding of Aluminium Powder Mixed with Corn Starch; Characterization of Ceramic Powders during Compaction using Electrical Measurements; Author Index

Sommario/riassunto

This book is a collection of papers from The American Ceramic Society's 35th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 23-28, 2011. This issue includes papers presented in the Next Generation Bioceramics and Porous Ceramics Symposia on topics such as Advanced Processing of Bioceramics; In Vitro and In Vivo Characterization of Bioceramics; Medical and Dental Applications of Bioceramics; Porous Bioceramics; Structure and Properties of Porous Ceramics; and Processing Methods of Porous Ceramics.