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Nota di contenuto	Innovative Processing and Synthesis of Ceramics, Glasses and Composites IX; Contents; Preface; Novel Processing and Microstructure-Property Relationships; Effect of Aluminon Aqueous Solution Chemistry on the Homogeneity of Compacts by Colloidal Filtration of Al ₂ O ₃ Dispersions; HfC Structural Foams Synthesizing from Polymer Precursors; Adhesion-Non Adhesion Behavior of Non-Polar Solvent Based SiC Slurries for Electro-Photographic Solid Freeform Fabrication Applications; Advanced Robot Assisted Process for the Series Production of Optimized Oxide Ceramic Coatings on Textile Surfaces

ElectrophoresisEngineering the Composition Profile in Functionally Graded Materials Processed by Electrophoretic Deposition; Fabrication of Colored Glasses by Incorporation of a Secondary Nanosized Phase into a Silica Green Body by Means of Reactive Electrophoretic Deposition (REPD); Mechanisms and Kinetics of Processes; Microstructural Evolution and Creep Properties of Plasma Sprayed Nanocomposite Zirconia-Alumina Materials; Densification of Single-Grain versus Multi-Grain Zirconia Powders; Measurement of the Internal Pressure in Green Multilayer Ceramic Bodies During Binder Removal Reaction FormingInfiltration and Reaction-Formation Mechanism and Microstructural Evolution of Biomorphic SiC Fabricated by Si-Melt Infiltration; Chemical Reactivity: In Search of Better Processing of HfB₂/SiC UHTC Composites; Low Cost Preparation of High Quality Aluminum Nitride Powders and Whiskers; In-Situ and Porous Composites; In-Situ Synthesis and Characterization of SiC-Al₂O₃ Composites; A New Family of Uniformly Porous Composites with 3-D Network Structure (UPC-3D): Progress and Perspective; Index

Sommario/riassunto

This proceedings includes papers presented at the Innovative Processing and Synthesis of Ceramics, Glasses and Composites symposium. Topics include powders, films, coatings, fibers, composites, and functionally graded materials; sol-gel, polymer precursor, and soft chemistry techniques; novel processing and microstructure-property relationships; reaction forming, combustion synthesis, and CVD; oxidation of metals and mechanical alloying; electrophoresis and plasma processing; and mechanism and kinetics of processes.
