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Sputtering Targets; TEM Observation of the Ti Interlayer between SiC Substrates during Diffusion Bonding; Joining of Alumina by Using of Polymer Blend and Aluminum; Diffusion Bonding of Rigid Alumina Pieces using Porous Alumina Interlayers; Influence of Joining Pressure and Surface Roughness on Flexural Strength of Joined Boron Carbide Ceramics; Laser Machining of Melt Infiltrated Ceramic Matrix Composite; Fabrication of Dendritic Electrodes for Solid Oxide Fuel Cells by using Micro Stereolithography
Ion-Exchange Properties of Nano Zeolite a Prepared by Bead Milling and Post-Milling Recrystallization MethodThe Role of Milling Liquids in Processing of Metal-Ceramic- Precursor Powders; Quantitative Validation of a Multi-Scale Model of Pyrocarbon Chemical Vapor Infiltration from Propane; Numerical Analysis of Fracture Behavior in Anisotropic Microstructures; Author Index

Sommario/riassunto

The 6th International Symposium on Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials and Systems was held in January 2012 during the 36th International Conference and Exposition on Advanced Ceramics and Composites. This symposium examined progress resulting from the research and development of advanced processing and manufacturing technologies for a wide variety of non-oxide and oxide-based structural ceramics, particulate and fiber-reinforced composites, and multifunctional materials. This issue features seventeen of those papers, representing
