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Altri autori (Persone)	LaSalviaJerry C
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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Introduction; Responses of Siliceous Materials to High Pressure; Edge-On Impact Investigation of Fracture Propagation in Boron Carbide; Macroscopic Assessment of High Pressure Failure of B4C and B4C/SiC Composites; Effect of Prestressing on the Ballistic Performance of Alumina Ceramics: Experiments and Modeling; Geometrical Effect on Damage in Reaction Bonded Ceramic Composites having Experienced High Strain Rate Impact; Optimizing the Arrangement of Ceramic Tile Periodic Arrays for Armor Applications using a Genetic Algorithm Al/Al2O3 MMCs and Macrocomposites for Armor ApplicationsMechanical Response Anisotropy in Hot-Pressed Silicon Carbide; Comparison of Armor Ceramics Made by Spark Plasma

Sintering (SPS) and Pressureless Sintering; Pressureless Sintering of SiC-B4C Composites; Development of Transparent Polycrystalline Beta-Silicon Carbide Ceramic using Field Assisted Sintering Technology; Densification of Synthesized Boron Carbide Powders using SPS; Consolidation of Aluminum Magnesium Boride (AlMgB14) by Pulsed Electric Current Sintering (PECS) Technique  
Ultrasonic Nondestructive Characterization of Transparent Spinel Microstructure  
Author Index

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Sommario/riassunto

Ceramic Engineering and Science Proceedings Volume 34, Issue 5 - Advances in Ceramic Armor IX A collection of 14 papers from The American Ceramic Society's 37th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 27-February 1, 2013. This issue includes papers presented in the Armor Ceramics Symposium on topics such as Manufacturing; High-Rate Real-Time Characterization; Microstructural Design; Nondestructive Characterization; and Phenomenology and Mechanics of Ceramics Subjected to Ballistic Impact.<h

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