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Titolo	Mechanical properties and performance of engineering ceramics and composites IV : a collection of papers presented at the 33rd International Conference on Advanced Ceramics and Composites, January 18-23, 2009, Daytona Beach, Florida // edited by Dileep Singh, Waltraud M. Kriven; volume editors, Dileep Singh, Jonathan Salem
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Collana	Ceramic engineering and science proceedings ; ; 30/2
Altri autori (Persone)	SinghDilip KrivenWaltraud M SalemJ. A <1960-> (Jonathan A.)
Disciplina	620.1404292
Soggetti	Ceramic materials - Mechanical properties Composite materials
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Mechanical Properties and Performance of Engineering Ceramics and Composites IV; Contents; Preface; Introduction; MECHANICAL PROPERTIES AND PERFORMANCE; R&D of Advanced Ceramics Activities in China and Shanghai Institute of Ceramics Chinese Academy of Sciences (SICCAS); Fabrication of Silicon Nitride-Multi-Walled Nanotube Composites by Direct In-Situ Growth of Nanotubes on Silicon Nitride Particles; Synthesis of Yttria Stabilized Zirconia (3YTZP)-Multi-Walled Nanotube (MWNTs) Nanocomposite by Direct In-Situ Growth of MWNTs on Zirconia Particles

Processing, Microstructure and Mechanical Properties of Ultra High Temperature Ceramics Fabricated by Spark Plasma SinteringFabrication of Carbon Fiber Reinforced Ceramic Matrix Composites Potential for Ultra-High-Temperature Applications; Estimation of Sintering Warpage of a Constrained Ceramic Film; Long-Term Temperature Gradient Stress Relaxation Testing and Modeling of Ceramic Insulation Materials; From Conventional to Fast Sintering of Zirconia Toughened Alumina Nanocomposites

Fatigue Characterization of a Melt-Infiltrated Woven HI-NiC-S/BN/SiC Ceramic Matrix Composite (CMC) Using a Unique Combustion Test FacilityEffect of SiC Content and Third Phase Metal Additions on Thermal and Mechanical Properties of Si/SiC Ceramics; Compressive Strength Degradation in ZrB₂-SiC AND ZrB₂-SiC-C Ultra High Temperature Composites; SiC Nanometer Sizing Effect on Self Healing Ability of Structural Ceramics; Creep and Fatigue Behavior of MI SiC/SiC Composites at Temperature; Self-Crack-Healing Behavior Under Combustion Gas Atmosphere

Selection of a Toughened Mullite for a Miniature Gas Turbine EngineComparison in Foreign Object Damage between SiC/SiC and Oxide/Oxide Ceramic Matrix Composites; Ti₃(Si,Al)C₂ for Nuclear Application: Investigation of Irradiation Effects Induced by Charged Particles; Heavy Ions Induced Damages in Ti₃SiC₂: Effect of Irradiation Temperature; Titanium Carbide and Silicon Carbide Thermal Conductivity Under Heavy Ions Irradiation; Corrosion Resistance of Ceramics in Vaporous and Boiling Sulfuric Acid

Unlubricated Clutch System Based on the Function Relevant Friction Pairing Advanced Non-Oxide Ceramic vs. SteelNondestructive Inspection of Ceramic Bearing Balls Using Phased Array Ultrasonics; Thermal Expansion Coefficient of SiO₂-Added Leucite Ceramics; GEOPOLYMERS; Inorganic Polymers (Geopolymers) as Advanced Materials; Properties and Performance of Si-Rich Geopolymer Binder Systems; Cold Setting Inorganic Networks Including Phosphates; Properties of Phosphorus-Containing Geopolymer Matrix and Fiber-Reinforced Composite; Formation of an Iron-Based Inorganic Polymer (Geopolymer)

Consolidated Geo-Materials from Sand or Industrial Waste

Sommario/riassunto

Gain insight into the mechanical properties and performance of engineering ceramics and composites. This collection of articles illustrates the Mechanical Behavior and Performance of Ceramics & Composites symposium, which included over 100 presentations representing 10 countries. The symposium addressed the cutting-edge topics on mechanical properties and reliability of ceramics and composites and their correlations to processing, microstructure, and environmental effects.

2. Record Nr.	UNIORUON00285654
Autore	Bertini, Giovanni Maria
Titolo	Cinque saggi di ispanistica / presentazione e contributo bibliografico a cura di Giovanni Maria Bertini ; collaborazione di Roberto Radicati di Marmorito
Pubbl/distr/stampa	Torino, : G. Giappichelli, 1962
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