

1. Record Nr.	UNINA9911019208603321
Titolo	Processing and properties of advanced ceramics and composites III // edited by Narottam P. Bansal ... [et al.]
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2011
ISBN	9786613240217 9781283240215 1283240211 9781118144435 1118144430 9781118144442 1118144449 9781118144411 1118144414
Descrizione fisica	1 online resource (220 p.)
Collana	Ceramic transactions, , 1042-1122 ; ; v. 225
Altri autori (Persone)	BansalNarottam P
Disciplina	620.14
Soggetti	Ceramic materials Composite materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Processing and Properties of Advanced Ceramics and Composites III; Contents; Preface; FIBER COMPOSITES; Influence of Fiber Orientation on the Mechanical Properties and Microstructure of C/C-SiC Composite Plates Produced by Wet Filament Winding Technique; High-Temperature Interlaminar Tension Test Method Development for Ceramic Matrix Composites; Life Limiting Behavior of Ceramic Matrix Composites Under Interlaminar Shear at Elevated Temperatures; NANO-CERAMICS AND COMPOSITES; Effect of Coating Parameters on the Electrodeposition of Nickel Containing Nano-Sized Alumina Particles Synthesis of Al ₂ O ₃ -TiC Nano-Composite Particles by a Novel Electro-Plasma Process TESTING, CHARACTERIZATION, AND MICROSTRUCTURE-PROPERTY RELATIONSHIPS; Research on Tribological Properties of Reactive Sintered Si ₃ N ₄ -Based Composite Ceramic; Preparation of Nano and Micron Sized ZrO ₂ Dispersed Al ₂ O ₃ Ceramic Composites and Study

Their Hardness and Fracture Toughnesses; Influence of Particle Size Distribution of Wollastonite on the Mechanical Properties of CBPCs (Chemically Bonded Phosphate Ceramics)
Foreign Object Damage in an N720/Alumina Oxide/Oxide Ceramic Matrix Composite under Tensile Loading
FUNCTIONALLY GRADED MATERIALS; Thermally Sprayed Functionally Graded Materials; CERAMIC PROCESSING; Development of Ultra-High Temperature Stable Ceramics by Reactive Infiltration Processes*; Shape Evolution of Spanning Structures Fabricated by Direct-Write Assembly of Concentrated Colloidal Gels; COMPOSITES PROCESSING; Colloidal Processing of Ceramic-Ceramic and Ceramic-Metal Composites
Processing of Nitride Porous Ceramic Composites via Hybrid Precursor System Chemical Vapor Deposition (HYSYCVD)/Direct Nitridation (DN)
Effect of Nano-SiO₂ on Microstructure, Interface and Mechanical Properties of Whisker-Reinforced Cement Composites; DIRECTIONAL SOLIDIFICATION AND MICROWAVE PROCESSING; Engineered Self-Organized Microstructures Using Directional Solidification of Eutectics; Effect of Different Fuels on the Microwave-Assisted Combustion
Synthesis of Ni_{0.5}Zn_{0.5}Fe_{1.95}Sm_{0.05}O₄ Ferrites; Author Index

Sommario/riassunto

This book contains 17 papers from the Innovative Processing and Synthesis of Ceramics, Glasses and Composites and Advances in Ceramic Matrix Composites symposia held during the 2010 Materials Science and Technology (MS&T'10) meeting, October 17-21, 2010, Houston, Texas. Topics include: Fiber Composites; Modeling and Characterization; Nanomaterials; Testing; Microstructure-Property Relationships; Advanced Coatings; and Processing Methods.
