1. Record Nr. UNINA9910830436803321

Titolo	26th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures [[electronic resource]] : January 13-18, 2002, Cocoa Beach, Florida . B / / Hau-Tay Lin, Mrityunjay Singh, editors
Pubbl/distr/stampa	Westerville, OH, : American Ceramic Society, 2002
ISBN	1-282-31397-5 9786612313974 0-470-29475-2 0-470-29520-1
Descrizione fisica	1 online resource (901 p.)
Collana	Ceramic engineering & science proceedings ; ; 23/4
Altri autori (Persone)	LinHua-Tay SinghM (Mrityunjay)
Disciplina	666 666.05
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.
Nota di contenuto	26th Annual Lonterence on Lomposites, Advanced Ceramics, Materials, and Structures: B; Contents; Preface; Water-Based Tape Casting with Latex Binders; Radio Frequency Drying of Ceramics; Laser CVD System Design, Operation, and Modeling; Near-Net Shapes by Ceramic Injection Molding; Fabrication of Ceramic Components for Micro Gas Turbine Engines; Low Pressure Injection Molding Process for Near-Net Shape, Hot Gas Filter Components; Near-Net Shape SiO2-TiO2-Glass Compacts with Reduced Thermal Expansion; An Approach to Examination of Thermal Decomposition by Novel Evolved Gas Analysis Cost-Effective Synthesis of Silica Aerogels from WaterglasslTEOS by Ambient Drying and Their ApplicationsPiezoresistive Ceramic Composites for Force or Pressure Sensors; The Electrical Properties of CaZr03 Humidity Sensors; Effect of Organic Components of Low Friction/Flexible Materials; Ceramic light Metal Composites-Product Development and Industrial Application; CMC Brake Disks in Serial Production-the Competition Between Cost Effectiveness and Technical

Performance; Ceramic on Glass and Glass-Ceramic Layer Composites for Industrial Applications
The Commercialization of Advanced Telecommunications Technologies in Georgia through YamacvawFabrication of Ceramics with Designed Porosity; Effect of Microstructure on the Mechanical Properties of DenselPorous Multilayered Silicon Nitride; Comparison among the Functional Forms Describing Changes in Thermal and Mechanical Properties due t o Microcracking and Porosity; Manufacturing of Porous Oxide Ceramics from Bioorganic Preforms; Grain Boundary Strengthening of Porous Alumina Ceramics: Effect of Secondary Inclusions and Dopants
Hermetic Glass Bodies with Controlled Porosity: Processing and PropertiesSelf-Foamed Cellular Ceramics from Silicone Resins with a Zeolite Surface; Wood Derived Porous and Cellular Ceramics; Porous Sic Ceramics with Oriented Structure from Natural Materials; Design of Screen-Printed Porous Layers for Improving Gas Sensor Performances; Designing and Fabricating Pores in Porous Materials; Effect of Porosity on Thermal Shock Resistance of Silicon Nitride Ceramics; Binder Induced Porosity in Tape Casting
Potential of Acousto-Ultrasound Method t o Characterize the Strength of Hot Gas Filter MaterialsEffect of Combustion Conditions on Properties of Ceramic Hot Gas Filters; Determination of Pore Volume and Pore Distribution by Liquid Extrusion Porosimetry without Using Mercury; Cellular Oxide Ceramics from Filler Loaded Silicone Resins; Unique Applications of Diamond and Diamond-Like Carbon for Use as Tools or Components; Ceramic Tribo-Coatings in Japan-A Report on State-of-the-Art Materials; Characterization of Aluminum Phosphate Sealed Alumina and Chromia Coatings
Reaction Bonding of Oxide Coatings on Silicon Nitride

Sommario/riassunto

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.