

1. Record Nr.	UNINA9910831190903321
Titolo	27th international Cocoa Beach Conference on Advanced Ceramics and Composites [[electronic resource]] : January 26-31, 2003, Cocoa Beach, FLorida . A / / Waltraud M. Kriven, Hau-Tay Lin, editors
Pubbl/distr/stampa	Westerville, OH, : American Ceramic Society, 2003
ISBN	1-282-31343-6 9786612313431 0-470-29480-9 0-470-29524-4
Descrizione fisica	1 online resource (667 p.)
Collana	Ceramic engineering and science proceedings ; ; 24/3
Altri autori (Persone)	KrivenWaltraud M LinHua-Tay
Disciplina	666
Soggetti	Ceramics 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	27th International Cocoa Beach Conference on Advanced Ceramics and Composites: A; Contents; Preface; Perspectives of Field-Enhanced Processes for the Preparation of Nanomaterials; Aerosol Deposition for Nanocomposite Material Synthesis: - A Novel Method of Ceramics Processing Without Firing; Processing of Nanocrystalline Diamond Films by Microwave Plasma CVD; Synthesis of Nanocrystalline Silicon Carbide Powders; Processing of Nanocrystalline Hafnium Carbide Powders; Processing of Nanocrystalline Zirconium Carbide Powders; Synthesis of Hydroxyapatite/Alumina Nanocomposites via Microemulsions Carbide Derived Carbon (CDC) Coatings for Tyranno ZMI Sic FibersSynthesis and Magnetic Characterization of Superconductive YBa, Cu,O, Ceramics of Weakly Coupled Nano-Scale Grains; Manufacturing of Zirconia Components by Electrophoretic Deposition of Nanosized Powders; Near-Shape Manufacturing of Ceramics and Glasses by Electrophoretic Deposition using Nanosized Powders; Preparation of Polycrystalline Ceramic Compacts Made of Alumina Powder with a Bimodal Particle Size Distribution for Hot Isostatic Pressing; Precision

Microgear Fabrication and Sintering with Microwaves
Synthesis of ZnO Nanopowders by Controlled Double-Jet
Precipitation
Synthesis of Nanostructured Mullite and Mullite-Zirconia
Ceramic Composite Powders by Using a Modified and Cost Effective
Sol-Gel Method; Nanostructured Materials Based on Alumina;
Characterization of Epitaxial Barium Titanate Films Deposited under
Hydrothermal Conditions; Details of Urea Decomposition in the
Presence of Transition Metal Ions; Gel Casting of Ceramic Foams;
Processing of Biomorphous Tic-Based Ceramics; Synthesis of Non-
Permeable Porous Ceramics by Mixing Ceramic Hollow Micro Spheres
Ceramic Spheres Derived from Cation Exchange Beads
Tensile
Evaluation of Ceramic Foam Ligaments; Utilization of Diatomite as a
Desiccant Aid; Assessment of Damage Tolerance for Porous Ceramics;
Fracture Behavior of Sic-Based, Clay-Bonded Hot Gas Filters; 3D
Image
Construction of Porous Ceramics by X-Ray CT and Stress Distribution
Analyses using Voxel Mesh Method; 3 Dimensional CT Analyses of Bone
Formation in Porous Ceramic Biomaterials; Influence of Grinding Fluids
on the Abrasive Machining of a Micaceous Glass Ceramic
Wear
Characterization of Clinically used Hip Joint Prostheses by a HIP
Simulator
Fabrication of Biocompatible Calcium Phosphate Ceramics
Using Eggshell; Calcium Aluminate/Calcium Phosphate Composite
Orthopedic Bone Cement; Fabrication of Composite for Bone Repairing
from Alpha-tricalcium Phosphate and Hydroxypropylcellulose;
Preparation of Bioactive Inorganic-Organic Hybrids by Hot Water
Treatment; Bioactive Titania Gel-Derived from Combined Chemical and
Thermal Treatments of Titanium
Apatite Formation on the PMMA Bone Cement Modified with
Alkoxysilane and Calcium Salt in a Simulated Body Fluid

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.
