

1. Record Nr.	UNINA9911018923103321
Titolo	Developments in strategic materials and computational design III : a collection of papers presented at the 36th International Conference on Advanced Ceramics and Composites, January 22-27, 2012, Daytona Beach, Florida / / edited by Waltraud M. Kriven ... [et al.] ; volume editors, Michael Halbig, Sanjay Mathur
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2013
ISBN	9781118217542 1118217543 9781283869522 1283869527 9781118530542 1118530543
Descrizione fisica	1 online resource (216 p.)
Collana	Ceramic engineering and science proceedings, , 0196-6219 ; ; v. 33, issue 10 (2012)
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Disciplina	666
Soggetti	Ceramic materials Composite materials Strategic 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	Developments in Strategic Materials and Computational Design III; Contents; Preface; Introduction; GEOPOLYMERS AND OTHER INORGANIC POLYMERS; Metakaolin-Nanosilver as Biocide Agent in Geopolymer; Parameters That Influence Silica Dissolution in Alkaline Media; Humidity Effects on the Completion of Geopolymerization in Dilute Evaporative Slurries; The Effect of Basalt Chopped Fiber Reinforcement on the Mechanical Properties of Potassium Based Geopolymer; Ceramicash: A New Ultra Low Cost Chemically Bonded Ceramic Material Chemically Bonded Phosphate Ceramics for Stabilization of High-Sodium Containing Waste StreamsCOMPUTATIONAL DESIGN,

MODELING, AND SIMULATION; Numerical Simulation of the Temperature and Stress Field Evolution Applied to Spark Plasma Sintering; An Integrated Virtual Material Approach for Ceramic Matrix Composites; A New Anisotropic Constitutive Model for Ceramic Materials Failure; Studies of Gas-Phase Reactivity during Chemical Vapor Deposition of Boron Carbide; Image-Based 2D Numerical Modeling of Oxide Formation in Self-Healing CMCS  
Combining X-Ray Diffraction Contrast Tomography and Mesoscale Grain Growth Simulations in Strontium Titanate: An Integrated Approach for the Investigation of Microstructure Evolution  
Calculation of Growth Stress in SiO<sub>2</sub> Scales Formed by Oxidation of SiC Fibers;  
ADVANCED MATERIALS AND PROCESSING FOR PHOTONICS AND ENERGY; Effect of Chromium-Doping on the Crystallization and Phase Stability in Anodized TiO<sub>2</sub> Nanotubes; Frontiers in Nanomaterials and Nanotechnology and Impact on Society; THERMAL MANAGEMENT MATERIALS AND TECHNOLOGIES  
Measurement of Thermal Conductivity of Graphitic Foams Kevin Drummond and Khairul Alam  
Examination of the Interconnectivity of SiC in a Si:SiC Composite System; Author Index

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Sommario/riassunto

Exploring the latest findings, new materials, and applications, this issue keeps readers current with some of the most important developments in strategic materials and the computational design of ceramics and composites. It features select contributions from one symposium and three focused sessions that took place in January 2012 during the 36th International Conference and Exposition on Advanced Ceramics and Composites (ICACC). This issue represents one of nine CESP issues published from the 36th ICACC meeting.

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