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13th International Ceramics Congress : proceedings of the 13th International Ceramics Congress, part of CIMTEC 2014-13th International Ceramics Congress and 6th Forum on New Materials, June 8-13, Montecatini Terme, Italy. Part E / / edited by Pietro Vincenzini, World Academy of Ceramics and National Research Council, Italy ; co-edited by Sanjay Mathur, University of Cologne, Germany, Paolo Colombo, University of Padova, Italy, Christopher C. Berndt, Swinburne University of Technology, Australia

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Nota di contenuto

13th International Ceramics Congress - Part E; Preface; Table of Contents; Chapter 1: Nanomaterials for Energy and Sustainability; Self-Propagation Low Temperature Flameless Combustion Synthesis of Ni and Al Nanoparticles: Time-Resolved XRD Study; Compositional Designs for High Performance Antifingerprint Coated Concealed Cistern Control Panels; Sol-Gel Derived Two-Dimensional Nanostructures of Calcium Phosphates; Study on the Synthesis of Batches of the System Y-Ba-Cu-O Using Sol-Gel Method; Consolidated Nanocomposite Materials with the Defined Properties
Hydrogen Production from Thermochemical Water-Splitting Using Ferrites Prepared by Solution Combustion SynthesisSelf-Cleaning and Anti-Fogging Surfaces Based on Nanostructured Metal Oxides; Chapter 2: Porous Ceramics; Fabricating of Diatomite Based Ceramic Water Filter

by a Novel Casting Method; Characterization of Aerogels - Challenges and Prospects; Evaluating Porosity in Cordierite Diesel Particulate Filter Materials: Advanced X-Ray Techniques and New Statistical Analysis Methods; Modeling the Properties of Cellular Ceramics: From Foams to Lattices and Back to Foams

Porous Silicas for Enhanced Drug ReleaseLightweight Bi-Layered Ceramic Tiles for Novel Applications; Porous Clay Ceramic for Environmental Technologies; Al₂O₃ Preforms with Gradient Porosity for Brake Disk Application; Chapter 3: Ceramic Thin Films and Coatings; Relationship between Residual Stresses and Damaging in Thermally Grown Oxide on Metals: Raman Spectroscopy and Synchrotron Micro-Diffraction Contributions; Influence of Application Technology in the Structural Characteristics of Ceramic Coatings with Advanced Anticorrosive and Tribological Properties

Amorphous Alumina Coatings on Glass Bottles Using Direct Liquid Injection MOCVD for Packaging ApplicationsTemperature Dependent 4-, 5- and 6-Fold Coordination of Aluminum in MOCVD-Grown Amorphous Alumina Films: From Local Coordination to Material Properties; Comparison of the Ablation Mechanism of C/C-SiC Composite under Atmospheric and Low Pressure; Oxide Films Formed on FeCrAl Steel Foil Coated with Pt and Al Films; Keywords Index; Authors Index

Sommario/riassunto

Collection of selected, peer reviewed papers from the 13th International Ceramics Congress, part of CIMTEC 2014-13th International Ceramics Congress and 6th Forum on New Materials, June 8-13, 2014, Montecatini Terme, Italy. The 21 papers are grouped as follows: Chapter 1: Nanomaterials for Energy and Sustainability; Chapter 2: Porous Ceramics; Chapter 3: Ceramic Thin Films and Coatings.
