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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>13th International Ceramics Congress - Part B; Preface; Table of Contents; Chapter 1: Novel Routes for Ceramics Synthesis and Processing; Effect of Calcining Temperature of Si<sub>3</sub>N<sub>4</sub> Poly-Hollow Microspheres on the Properties of the Porous Si<sub>3</sub>N<sub>4</sub> Ceramics Prepared by Aqueous Gelcasting; Two-Step Synthesis of Ultrafine and Nanosized Powders of Tungsten Oxide and Carbide; SiOC Composite Structures for Intermediate Service Temperatures with Increased Friction Properties; Microwave Energy Application for Materials' Processing and Environmental Technology</p> <p>Microwave Absorbency Change of Nitride Powders under Vacuum Heating</p> <p>New Developments of FAST/SPS Tool Materials; Microwave Technique: An Innovated Method for Sintering -Eucryptite Ceramic Materials; Graphene Covered Alumina Nanofibers as Toughening Agent in Alumina Ceramics; Reactive Sintering of TaB<sub>2</sub> Using Spark Plasma Sintering Method; Lithography-Based Ceramic Manufacturing: A Novel Technique for Additive Manufacturing of High-Performance Ceramics; 3D Printing of Calcia-Based Ceramic Core Composites; Strong-Gravity Experiments on Perovskite-Type Oxides</p> <p>Laser Synthesis Features of Composite Ceramics Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>-Y<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>-Al<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>TiO<sub>5</sub></p> <p>Chapter 2: SHS Ceramics; Combustion of Gasless System under One-Sided Loading; New Results on Structural Macrokinetics Obtained on Multilayer Nanofibers; Carbonaceous Refractory Materials on SHS-Technology; Synthesis and Luminescence Properties of a Red Nitride Phosphor (CaAlSiN<sub>3</sub>:Eu<sup>2+</sup>) for White Light LED Applications; Coupling SHS and SPS Processes; Chapter 3: Ceramics Joining; A Critical Review on Modeling of Fracture Behavior of Ceramic Joints; On the Role of TiC in the Carbon Steel-Titanium Joining</p> <p>Transmission Electron Microscopy of Interfaces in Diffusion-Bonded Silicon Carbide Ceramics</p> <p>Compact, Ceramic Heat Exchangers and Microchannel Devices: Joining and Integration; Brazing of Metals, Alloys and Ceramics Using Rapidly Quenched Ribbon-Type Filler Metal</p> <p>STEMET; Characterization of Furnace Sintered Mullite and Oxide Ceramic Matrix Composites (O-CMC) by Using Glass Solders; Influencing Factors on the Reactive Wetting of Cu-Sn-Ti- and Ag-Cu-Ti-Alloys on Silicon Carbide - Microstructural Observations, Effects and Multivariate Modelling; Keywords Index; Authors Index</p>
Sommario/riassunto	<p>Collection of selected, peer reviewed papers from the 13 th International Ceramics Congress, part of CIMTEC 2014-13 th International Ceramics Congress and 6 th Forum on New Materials, June 8-13, 2014, Montecatini Terme, Italy. The 25 papers are grouped as follows: Chapter 1: Novel Routes for Ceramics Synthesis and Processing, Chapter 2: SHS Ceramics, Chapter 3: Ceramics Joining.</p>