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Autore	Fleury, Pierre
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## 2. Record Nr.

## Titolo

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Advanced synthesis and processing technology for materials : selected, peer reviewed papers from the 1st International Symposium on Advanced Synthesis and Processing Technology for Materials, November 14-17, 2008, Wuhan, China / / edited by Takashi Goto [and three others]

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## Descrizione fisica

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## Collana

Advanced materials research, , 1022-6680 ; ; volume 66

## Altri autori (Persone)

GotoTakashi

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## Soggetti

Materials science

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## Note generali

Description based upon print version of record.

## Nota di bibliografia

Includes bibliographical references and indexes.

## Nota di contenuto

Advanced Synthesis and Processing Technology for Materials; Sponsors, Committees, Preface; Table of Contents; Ceramics; Investigation of Curing Process on Melt Spun Polymethylsilsesquioxane Fiber as Precursor for Silicon Oxycarbide Fibers; Synthesis of SiC Based Fibers with Continuous Pore Structure by Melt- Spinning and Controlled Curing Method; Effect of Nd<sub>2</sub>O<sub>3</sub> and Sm<sub>2</sub>O<sub>3</sub> on the Microstructure and Electrical Properties of WO<sub>3</sub> Capacitor-Varistor Ceramics; The Effect of Particle Morphology and Particle Size Distribution on the Property of Slip Casting SiC  
Preparation and Thermoelectric Properties of Bi-Doped Mg<sub>2</sub>Si NanocompositesThe Effect of Water-Soluble Plasticizer on Barren Raw Material Hard Plastic Extruding Course; Stoichiometric Controlling of Spark Plasma Sintered Boron-Carbon Ceramics; Optimal Design for Ceramic Radomes with A-Sandwich Structure; Effect of Bi Doping on the Thermoelectric Properties of Mg<sub>2</sub>Si0.5Sn0.5 Compound; Effect of CaO on Sintering and Crystallization of CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> System Phosphorus Slag Glass-Ceramic; Reinforcement of B<sub>4</sub>C Ceramics with Multi-Walled Carbon Nanotubes

Damping Properties and Mechanism of 0-3 PMN/CB/EP Composites  
Field-Assisted Isothermal Oriented Crystallization of SrO-TiO<sub>2</sub>-SiO<sub>2</sub> Polar Glass-Ceramics; Structure and Property of Ti-Al-C/TiB<sub>2</sub> Composite Ceramics; Synthesis, Characterization and Catalytic Properties of La<sub>4</sub>BaCu<sub>5</sub>-xNi<sub>x</sub>O<sub>13</sub> (x=0, 1, 2, 3, 4, 5); Oxidation of ZrB<sub>2</sub>/ZrO<sub>2</sub> and ZrB<sub>2</sub>/ZrO<sub>2</sub>/SiC Ceramics; Molten Salt Synthesis and Photoluminescence of YVO<sub>4</sub>:Eu Microcrystalline Phosphors; Synthesis, Characterization and Electromagnetic Wave Absorption Properties of Z-Type Hexaferrites Prepared by Molten Salt Method  
Carbothermal Reduction and Nitridation Synthesis of -AlON Powder under High Heating Rate  
Synthesis of Ultra-Fine ZrB<sub>2</sub> Powder by Borothermal Reaction under High Heating Rate; Microstructure and Properties of Mulite-FeCr Multifunctional Composite; Effect of Sintering Temperature on the Properties of Porous Silicon Nitride Ceramics; Effects of Coated Nano-BN Particles on Microstructure and Properties of BN-AIN Composite ; Erosion Resistance of Al<sub>2</sub>TiO<sub>5</sub>/Al<sub>2</sub>O<sub>3</sub> Composites to Molten Aluminum; Fabrication of Indium Tin Oxide Targets by Spark Plasma Sintering and Hot-Pressing Sintering  
Superfast Sintering of Nanocrystalline Y<sub>2</sub>O<sub>3</sub> Ceramics  
Low-Temperature Sintering and Microwave Dielectric Properties of the Zn<sub>2</sub>SiO<sub>4</sub> Ceramics; Thermal Shock-Resistance Performance of Al<sub>2</sub>TiO<sub>5</sub>/Al<sub>2</sub>O<sub>3</sub> Composites ; Effect of LaCl<sub>3</sub> on the Properties of LAS Ceramics; Preparation of Fine Mullite Powder in a SHS Chemical Furnace System; Low Dimensional Materials; Investigation of Bipolar Resistance Switching Properties in SrTiO<sub>3</sub> Thin Films with Symmetric Electrodes Structure; The Effect of Oxygen Annealing on the Resistance Switching Properties of the La<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3</sub> Films  
Fabrication and Resistance-Switching Behaviors of NiO Thin Films by Thermal Oxidation of Evaporated Ni Films

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#### Sommario/riassunto

This special collection of 73 papers covers the intriguing topic of the synthesis and processing of inorganic materials using non-traditional technologies such as SHS, SPS, mechanical alloying, wet chemistry and aerosol deposition; as well as techniques involving laser, microwave, plasma, electron beam and high-field magnetron exposure. It is divided into chapters covering: Ceramics, Low-Dimensional Materials and Materials with Designed Structure and provides an authoritative and useful introduction to the subject.

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