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Preparation of Matrix-Type Nickel Oxide/Samarium-Doped Ceria Composite Particles by Spray Pyrolysis
Novel Low-Temperature Synthesis of Ferroelectric Neodymium-Doped Bismuth Titanate NanoparticlesHydrothermal Synthesis of CdMoO4 Nano-Particles; Chromium-Doped Forsterite Nanoparticle Synthesis by Flame Spray Pyrolysis; Formation of Al2O3-TiC Composite Nano-Particles Synthesized from Carbon-Coated Precursors; Synthesis of Sm0.5Sr0.5CoO3-x and La0.6Sr0.4Co03-x Nanopowders by Solution Combustion Process; Colloidal Processing and Sintering of Nano-ZrO2 Powders Using Polyethylenimine; Synthesis of High Purity -SiAlON Nanopowder from a Zeolite by Gas-Reduction-Nitridation
A Novel Supercritical CO2 Synthesis of Amorphous Hydrous Zirconia Nanoparticles, and Their Calcination to ZirconiaPraseodymium-Doped Photo-Luminescent Strontium Indate Nanoparticles by Ultrasonic Spray Pyrolysis; Nano-Blast Synthesis of Nano-size CeO2-Gd2O3 Powders; Sol-Gel Processing and Characterization of Phase-Pure Lead Zirconate Titanate Nano-Powders; Synthesis of AlN Nanopowder from .-Al2O3 by Reduction-Nitridation in a Mixture of NH3-C3H8; Membranes, Films, and Coatings; Microporous ZrO2 Membrane Preparation by Liquid-Injection MOCVD
Growth of Barium Hexaferrite Nanoparticle Coatings by Laser-Assisted Spray PyrolysisTwo Phase Monazite/Xenotime 30LaPO4-70YPO4 Coating of Ceramic Fiber Tows; Template-Free Self-Assembly of a Nanoporous TiO2 Thin Film; Nano-Sized Hydroxyapatite Coatings on Ti Substrate with TiO2 Buffer Layer by E-beam Deposition; Sol-Gel Routes to Nanostructured Patterned Ferroelectric Thin Films with Novel Electronic and Optical Functions; Preparation and Properties of Hydrothermally Stable -Alumina-Based Composite Mesoporous Membranes
Synthesis and Tribological Behavior of Silicon Oxycarbonitride Thin Films Derived from Poly(Urea)Methyl Vinyl Silazane

Sommario/riassunto

This edition of Progress in Ceramic Technology series contains a select compilation of articles on the topic of nanomaterials processing of powders; thin films, wires and tubes; and composites that were previously published in The American Ceramic Society Bulletin, Journal of the American Ceramic Society, International Journal of Applied Ceramic Technology, Ceramic Engineering and Science Proceedings (CESP) and Ceramic Transactions (CT).