1. Record Nr. UNINA9910465290003321

Titolo	Powder technology & application IV : selected, peer reviewed papers from the 2011 International Forum on Powder Technology & Application, October 27-29, 2011, Anshan, China / / edited by Shujuan Dai
Pubbl/distr/stampa	Zurich, Switzerland : , : Trans Tech Publications, , 2012 ©2012
ISBN	3-03813-793-6
Descrizione fisica	1 online resource (381 p.)
Collana	Advanced Materials Research, , 1022-6680 ; ; Volume 454
Altri autori (Persone)	DaiShujuan
Disciplina	671.3/7
Soggetti	Powders Powder metallurgy Ceramic powders Electronic books.
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 at the end of each chapters and indexes.
Nota di contenuto	Powder Technology & Application IV; Preface and Organization of the Forum; Table of Contents; Chapter 1: Mineral Materials; Advances in Research on Adsorption Characteristics of Alkylammonium in Montmorillonite Inter-Layer Space; Catalytic Oxidation of Toluene over CuyMnzOx/-Al2O3 Catalysts; Chemical Activation of Cementing Properties of Granulated Blast Furnace Slags; Cold Isostatic Pressing-Normal Pressure Sintering Behavior of Amorphous Nano-Sized Silicon Nitride Powders; Effect of Roasting Temperature on High Temperature Sintering Process of Different Mass Ratio of CaCO3/ SiO2 Effects of Surface Treatment on Photocattalytic Activity of TiO2 Coatings Using Microarc-OxidationExperimental Study on Using Fuxin Natural Zeolite to Prepare Molecular Sieves; Influence of DCCF on the Properties of Asphalt by DSC; Influence of Organic Additives on Shape and Adsorbing Properties of Nano-Fe3O4 Particles; Micron/Nano Powder Compositing Studies in Tsinghua University; Preparation and Characterization of Honghua Powders by Ultrafine Pulverization; Preparation of Poly(Phenylene Sulfide)/Carbon Nanotubes Composites

Preparation of Single-Walled Carbon Nanotubes from Starch by Arc DischargePreparing CNT/UHMWPE Composite and it's Electrical Property Study; Research in Toughening Wear-Resistant of Alumina Ceramic; Research on Cementing Performances of Environment-Friendly Backfilling Cementation Material Based on Blast Furnace Slag; Study on CO2 Adsorption of Sepoilite Modified by Mixture of Ethanolamine and N, N-Dimethyl Ethanolamine; Study on Technological Mineralogy of Slag Film of Medium Carbon Steel; Study on the Flame Retardant Property of Magnesium Hydroxide Whiskers/PE Composites Study on the Transformation of (+) Phase to Phase in Deformed Ti-6Al-4V Alloy during the Heat TreatmentSynthesis and Characterization of Mg-Al Layered Double Hydroxide; Synthesis and Electrochemical Performance of LiV3O8/MWCNTs Cathode Material for Lithium-Ion Batteries; Synthesis of Fine Co/ WC Composite and Application to Supersonic Plasma Spraying; Synthesis of Si-O-C Nanoballs by CVD of Polydimethylsiloxane; The Effect of Gallium on the Microstructure of Superalloy K444; The Effect of Surface Modifier on the Mechanical Properties of the Oxysulfate Whiskers/PP Composites
The Effects of Graphite on Ceramic Coatings on LY12 Aluminium Alloys by Micro-Arc OxidationThe Research on Lining Board Preparation of Mesoporous Zeolites; Theoretical Analysis of the FTIR Absorption Characteristic of Nano-Powder; Wear Performance of the Plasma Sprayed Fine WC-Co Composite Powders Coatings; Chapter 2: Mineral Processing; A Mathematical Model for Predicting the Internal Parameters of Ball Mill; An Iron Ore Beneficiation Test of a Region in Anshan
Catalytic Oxidation Pretreatment of Sulfide-Rich Arsenic-Bearing Refractory Gold Concentrate by Hydrogen Peroxide in Sulfuric Acid in Tongling, China

Sommario/riassunto

The 71 papers presented here discuss topics such as studies of the use of fuxin natural zeolite for the preparation of molecular sieves, the technological mineralogy of slag films of medium-carbon steel, a mathematical model for predicting the internal parameters of a ball mill, the flotation characteristics of brucite and serpentine, the reaction behavior of rare-earth elements during reduction and ultrafine grinding of zirconium silicate. Review from Book News Inc.: Looking in turn at mineral materials and mineral processing, the 71 papers discuss such topics as an experimental study on usin

2. Record Nr. UNINA9910139473703321

Titolo	Nonlinear dynamics of nanosystems [[electronic resource] /] / edited by Gunter Radons, Benno Rumpf, and Heinz Georg Schuster
Pubbl/distr/stampa	Weinheim, : Wiley-VCH Verlag GmbH & Co., 2010
ISBN	1-282-68832-4 9786612688324 3-527-62937-8 3-527-62938-6
Descrizione fisica	1 online resource (487 p.)
Classificazione	UG 3900 33.27 53.55 MAT 344f PHY 704f TEC 030f
Altri autori (Persone)	RadonsG (Gunter) RumpfBenno SchusterHeinz Georg <1943->
Disciplina	620.501515
Soggetti	Nanotechnology Nonlinear theories Electronic books.
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	Nonlinear Dynamics of Nanosystems; List of Contributors; Contents; Preface; Part I Fluctuations; 1 Nonequilibrium Nanosystems; 2 Thermodynamics of Small Systems; 3 Quantum Dissipative Ratchets; Part II Surface Effects; 4 Dynamics of Nanoscopic Capillary Waves; 5 Nonlinear Dynamics of Surface Steps; 6 Casimir Forces and Geometry in Nanosystems; Part III Nanoelectromechanics; 7 The Duffing Oscillator for Nanoelectromechanical Systems; 8 Nonlinear Dynamics of Nanomechanical Resonators; 9 Nonlinear Dynamics in Atomic Force Microscopy and Its Control for Nanoparticle Manipulation Part IV Nanoelectronics10 Classical Correlations and Quantum

	Interference in Ballistic Conductors; 11 Nonlinear Response of Driven Mesoscopic Conductors; 12 Pattern Formation and Time Delayed Feedback Control at the Nanoscale; Part V Optic-Electronic Coupling; 13 Laser-Assisted Electron Transport in Nanoscale Devices; 14 Two-Photon Photoemission of Plasmonic Nanostructures with High Temporal and Lateral Resolution; 15 Dynamics and Nonlinear Light Propagation in Complex Photonic Lattices; Index
Sommario/riassunto	A discussion of the fundamental changes that occur when dynamical systems from the fields of nonlinear optics, solids, hydrodynamics and biophysics are scaled down to nanosize. The authors are leading scientists in the field and each of their contributions provides a broader introduction to the specific area of research. In so doing, they include both the experimental and theoretical point of view, focusing especially on the effects on the nonlinear dynamical behavior of scaling, stochasticity and quantum mechanics.For everybody working on the synthesis and integration of nanoscopic device