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Descrizione fisica	1 online resource (774 p.)
Collana	Advanced Materials Research, , 1022-6680 ; ; Volume 988
Disciplina	620.11292
Soggetti	Mechanical engineering - Research Industrial engineering - Research Engineering design Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Material, Mechanical and Manufacturing Engineering II; Preface and Conference Organization; Table of Contents; Chapter 1: Micro/Nano Materials Research; Electrochemical Study of Corrosion Inhibition on Copper in Base Electrolyte by 1-Phenyl-3-Hydroxy-1,2,4-Triazole; Exploration for Identification of Sheath-Core Fiber of Ploymer; Mechanical and Thermal Properties of Phenolic Foams Reinforced by Hollow Glass Beads; Monolithic Macroporous-Mesoporous Carbon Using Ionic Liquids as Carbon Source; Strain Analysis of Bimetal Material Based on Uniaxial Tensile and ANSYS Study on Curing Kinetics of MEP-15/593/660 System Acidification Assisted Preparation of Graphite Oxide and Graphene; Preparation and Flame Retardancy of Waterbased Phosphorous Modified Phenolic Resin; Research on Synthesis Technology of Polyester Diol Using Vacuum Melting Method; The Influence of Second Particals on Grain Boundary Sliding; High-Energy Synthesis of Al-Ti Composite Powders and its

Thermal Stability; Synthesis, Characterization and Photophysical Properties of a New CuI Complexes Contain Bis[2-(diphenylphosphino) phenyl]ether and 1,2-diphenyl-1H-imidazo[4,5-f][1,10]phenanthroline  
Synthesis, Characterization and Photophysical Properties of Rhenium(II) Complexes with 2-(naphthalen-2-yl)-1-phenyl-1H-imidazo[4,5-f][1,10] phenanthroline  
Study on Characterization and Preparation of Bismuth Tungstate; Inhibition of Sodium Citrate on Aggregation and Sedimentation of Nanocalcium Oxalate Dihydrate Crystals; Preparation and Characterization of Dialdehyde Nanocellulose; Preparation and Characterization of Soap-Free Cationic Polystyrene Microspheres Using a Water Soluble Monomer; Preparation of High Pure and Micron-Sized -Al<sub>2</sub>O<sub>3</sub> Powder by Activated Aluminium Hydrolysis Method  
Preparation, Characterization, and In Vitro and In Vivo Evaluation of Tanshinone IIA Lipid Microspheres  
Research Progress in Nanocellulose Preparation; Synthesis of Nano-Branched Ni/Fe Layered Double Hydroxides; Chapter 2: Film and Surface Technology; Analysis the Influence Law of Process Parameters on the Deposition Rate of SiC Thin Film; Research on Preparation and Properties of Antiwear and Anticorrosion Composite Coating Ni-P-SiC; The Performance Research of Different Concentrations of Methyl Adsorption on Si (110) Surface  
Effect of Atmosphere Temperature on Physical Properties of ZnO/Ag/ZnO on PET Films  
Research of CoSiN Film as Diffusion Barrier in ULSI-Cu Metallization; Measurement Studies on Superhydrophobic Materials; Chapter 3: Metallic Materials, Alloys and its Application; Comparative Study on the Properties of CuCoBe Alloy and CuNiCoBe Alloy; Effect of Continuous Heating on Grain Growth in Fe-40Ni-Ti Alloy; Microstructure and Mechanical Properties of an Al-Cu-Mg-Fe-Ni Alloy; The Effect of Doping Lanthanum on Phlogopite-Iron Pearlescent Pigments  
The Research on Grind Coefficient of Stainless Steel on Inverse Analysis for Prediction

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### Sommario/riassunto

Collection of selected, peer reviewed papers from the 2nd International Conference on Material, Mechanical and Manufacturing Engineering (IC3ME 2014), May 30-31, 2014, Guangzhou, China. The 147 papers are grouped as follows: Chapter 1: Micro/Nano Materials Research, Chapter 2: Film and Surface Technology, Chapter 3: Metallic Materials, Alloys and Its Application, Chapter 4: Building Materials and Construction, Chapter 5: Forming and Processing Technologies, Chapter 6: Applied Mechanics and Dynamics, Chapter 7: Bioresearch and Medicine Technologies, Chapter 8: Computation Methods, Advanced Mode

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