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Nota di contenuto	Advanced Research on Material Science, Environment Science and Computer Science III; Preface and Committee; Table of Contents; Chapter 1: Materials Science and Processing of Materials; Research on Formability of AZ31B Magnesium Alloy at Room Temperature; Effect of Mineralizer Concentration on ZnO Crystals Synthesized by Hydrothermal Method; Corrosion Inhibition of Sodium Hexametaphosphate for Carbon Steel in KCl Solution; The Effect of the Electro-Deposition Temperature to the Texture of Silicon Steel Sample; Studies on Synthesis Mechanism of Fe-Si Alloy Effect of Temperature and Pressure on the Nitrogen Content of High Nitrogen Steel Effect of Bottom Blowing Time and Bottom Blowing Rate on the Nitrogen Content of High Nitrogen Steel; Effect of Extrusion on Mechanical Properties of Spray Forming 8009 Heat Resistant Aluminum Alloy; Research on the Second Phase of Spray Forming Al-8.5Fe-1.3V-1.7Si Aluminum Alloy; Alloy Design of New Ni-Based Structural Materials for Electrolytic Reduction and its Corrosion Behavior in

Lithium Molten Salt

Numerical Simulation and Optimization of "Non-Catalytic Reduction" Process for Circulating Fluidized Bed Boiler Based on Properties of Materials; A Study of the Fire Resistance against Structural Materials of H-Section Made of SS 400 by Boundary Conditions at High Temperature; Experimental Research on Lead-Zinc Separation of Refractory Lead-Zinc Ore; Effect of Subcritical Quenching on Microstructure and Mechanical Properties of EH36 Alloy; A Comparable Study on the Effects of Pristine and Functionalized Single-Walled Carbon Nanotubes on Schwann Cells; Effect of Aging Treatment on the Microstructures and the Magnetic Properties of the Sintered Nd-Fe-B Magnet; Progress on Mg₂Si Thermoelectric Materials; Experimental Fabrication and Property Research of Thermo-Sensitive Organic-Inorganic Hybrid Nano-Microcapsule; Indirect Enzyme-Linked Immune Method for the Detection of Binders in Ancient Chinese Textiles; Characterization of a Novel Zeolite Synthesized from Coal Fly Ash; Preparation and Process Research of Starch/Thatch Composite; Study on the Microstructure and Properties of WC Steel Bonded Carbide by Composite Electroslag Remelting; Influence of Heat Treatment Process to Advanced Steel Matrix Composites of Engineering Machinery Equipment; SERS-Active Ag Decorated Polymer Nanorod Substrate Fabricated by the Combination of Photochemical Reduction and Nanoimprint Technology; Study on Wear Behavior of Plasma Arc Cladding of Tunneling Machine Pick; Behavior of Flow Stress of Al-Mn Alloy during Hot Compression; Structure Characterization of Fe-21Cr-17Mn-2Mo-Nb-0.83N Alloy Processed by Surface Mechanical Nanocrystallization; Experimental Study on Geometric Optimization of Thermoelectric Generation; Dynamic Characteristic of AlN Precipitate in Production of High Strength and Low Carbon Steel in FTSR Technology

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Material Science, Environment Science and Computer Science, (MSESCS 2014), January 11-12, 2014, Wuhan, China. The 160 papers are grouped as follows: Chapter 1: Materials Science and Processing Materials; Chapter 2: Chemical Technologies and Materials; Chapter 3: Environmental Engineering; Chapter 4: Microbiology, Biomaterials and Biotechnologies; Chapter 5: Engineering Solutions for Machinery; Chapter 6: Technologies in Energy Supply and Saving; Chapter 7: Data Processing and Algorithms of Computational
