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Nota di contenuto	Material Science, Engineering Research, Management and Information Technologies; Preface and Committee; Table of Contents; Chapter 1: Materials Science, Processing and Application; Research on Material of Steel Grid Strcuture with Assemble of Grid Frame of Museology Museum; Research on Material Selection Construction Method Construction Technology with the High-Support Formwork Construction of NingBo Cultrural Plaza Grand; Orthogonal Experimental Study on the Mixing Proportion of Reactive Powder Concrete The Feature of Symmetric Frames and Two-Directional Vector Wavelets and Applications in Material Science; The Research of Dual Quarternary Pseudoframes for Hardy Space and Applications in Engineering Materials; Test Methods Research of Cracks in Ceramics Based on Genetic Algorithm; Application of Synthetic Substitute Materials on Reconstruction of Anterior Cruciate Ligament of Knee Joint in Exercise-Induced Injury; Composition Limy Binder with the Use of the Synthesized Aluminosilicates for Dry Construction Blends; Composite Nondestructive Testing Technology

Identification of Soluble Organic Compounds from Shengli Lignite in Toluene/Ethanol Mixed Solvent Cold-Start Emissions of an SI Engine Using Butanol/Gasoline Blends; The Research Status of the Preparation and Properties of the Tungsten Heavy Alloy; Dye-Sensitized Solar Cells Assembled with Modified Photoanode and Carbon Nanotubes as Counter Electrode; Synthesis and Characterization of Fluorine-Doped Tin Oxide Nanocrystals Prepared by Sol-Gel Method; Analysis and Probe of the Causes and Solution of Cracks of Precast Concrete Lightweight Partition Board
Conductive Silver-Modified TiO₂ Nanoparticles Prepared by a Silver Mirror Reaction; Material Balance Method Combined with Hydrocarbon Generation Kinetics to Calculate the Efficiency of Hydrocarbon Expulsion; Preparation and Coagulation Performance of Polymeric Aluminum Zinc Ferric (PAZF) from Galvanized Aluminum Slag; Characteristic of a Novel Composite Inorganic Polymer Coagulant-PAZF Prepared from Industrial Wastes; A Novel Soft Paper Prepared by Hydrothermal Synthesis of Ultralong TiO₂ Nanofibers; Separation and Acidic Solution Washing for Heavy Metals from Contaminated Soils
Effect of Scrap: Sponge Ratio on Mechanical and Corrosion Properties of Zr-1Nb-0.7Sn-0.1Fe Alloy; Microstructure and Deformability of Cast Zr-Nb-Fe-O Alloy with High Iron and Oxygen Content; Application of High Styrene Rubber Materials on Improved Tennis Performance; Study of Enhanced Surface Raman Scattering on Nano-Particle in Terahertz Range; Application of Green Packaging Material with a Necessary Analysis on the Packaging Design; Effect Analysis of Temperature on the Rubber Material Stress-Strain Relationship
Study of Performance on Reduce Fragility and Increase the Toughness of Fly Ash Ceramsite Concrete

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Engineering Materials, Energy, Management and Control (MEMC2014), June 21-22, 2014, Wuhan, China. The 113 papers are grouped as follows: Chapter 1: Materials Science, Processing and Application, Chapter 2: Energy, Power and Heat Engineering, Chapter 3: Construction and Civil Engineering, Chapter 4: Environmental and Chemistry Engineering, Chapter 5: Control Engineering and Monitoring, Chapter 6: Design and Modeling in Mechanics and Construction Engineering, Chapter 7: Management, Computation and Informati
