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Nota di contenuto	Research on Energy Material, Chemical Engineering and Mining Engineering II; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Chemical Technologies in Industry; EPS and Cotton Straw Slag Composite Thermal Insulation Material Research; The Effect of Reheating Temperature on Precipitation of a High Strength Microalloyed Steel; Microstructure and Precipitation of a High Strength Microalloyed Steel; Effect of Sc, Zr Grain Refiner on the Microstructure and Mechanical Properties of Pure Aluminum; Absorption and Attenuation Properties in Time-Lapse Seismic Preparation and Photoluminescent Properties of Ce ³⁺ , Yb ³⁺ Co-Doped YF ₃ Nanophosphors for Solar CellsEffect of Welding Wires on Microstructure and Mechanical Properties of CO ₂ Shielded Arc Welding Welded Joint of 30CrMnSiA Steel; Adsorption Performance to Methylene Blue by Non-Activated Tire-Based Pyrolytic Char; The Desalination Effect Comparison of Two Kinds of Nanofiltration Membrane; A Comparative Study on Antibacterial and Wash Durability Behaviour of ZnO and CuO Nanoparticles Treated Cotton Fabric Using Sodium Alginate as Cross Linker

Antibacterial and Wash Durability Properties of Untreated and Treated Cotton Fabric Using MgO and NiO Nanoparticles; High Aspect Ratio Hydroxyapatite Nanorods Formed by Polymer Assisted Synthesis; Interface Bonding and its Effect on the Mechanical Properties in Roll-Bonded Cu/Al/Cu Hybrid Alloy; Behaviour and Material Properties of the Grain Boundary on the Surface of an Anode during the Formation of a Dense Layer; Effect of Vibration Characteristics for Carbon Fiber Composite Materials on Musical Instruments Making; Research on Influencing Factors of Crystallization of Caffeine from Tea; Analysis of Relationship between Sensory Quality and Physiochemical Indexes of Natural Fermented Soybean Paste; Preparation of Sodium Diacetate; The Effect of Electro-Deposition Current Density to Silicon Steel's Surface Topography and Microstructure; The Choice of Metallographic Corrosive in the Sample of Electro-Deposition Silicon Steel Section; The Effect of Electro-Deposition Time to the Microstructure and the Texture of Silicon Steel; Steelmaking Desulfurization Process; Effect of Cryogenic Treatment on Compressive Properties of Aluminum Bronze; Process to Reduce Ash in Flotation of Hard-to-Float Fine Coal

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Energy Material, Chemical Engineering and Mining Engineering (EMCEM 2014), January 12-13 2014, Wuhan, China. The 68 papers are grouped as follows: Chapter 1: Materials Science and Chemical Technologies in Industry; Chapter 2: Mining Engineering and Technology; Chapter 3: Machinery, Equipment and Technologies of Manufacturing Processes; Chapter 4: Environmental Engineering and Human Safety
