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Nota di contenuto	Development of Industrial Manufacturing; Preface and Conference Organization; Table of Contents; Chapter 1: Advanced Materials Research; An Environmentally Friendly Composite Composed of Short-Cut Grass and Starch; Effects of Mg ₁₇ Al ₁₂ Precipitate on Corrosion Resistance of Al Ion Implanted AZ31 Magnesium Alloys; Environmental Friendly Conversion Coating Formed on Magnesium Alloys and its Anti-Corrosion Performance; Comprehensive Research into the Influence of Resin on Properties of Environmentally Friendly Water-Based Ink Enhanced Photocatalytic Activity of H-C-TiO ₂ /Graphene Based on the Synergistic Effect between Surface Defects and Ti-C Bond Passivation Effect of Rare Earth Lanthanum on Galvanized Steel; Research on Controllable Synthesis of Magnesium Carbonate Tri-Hydrate; Influence of Alloying Element on Corrosion Behavior of Hastelloy C-276 in Supercritical Water; Self-Propagating High-Temperature Synthesis of Simulated 90SrO-Contained Radioactive Graphite in N ₂ Atmosphere; Study on Microcrystalline Chitin Cinnamon Nanoemulsion; Preparation of Ni-Co Alloy by Electrodeposition Progress of High Purity Magnesium Oxide Preparation The Preparation of Ordered Mesoporous Al ₂ O ₃ and its Application in Ni-Based Catalysts

for CH₄/CO₂ Reforming; Research on the Grinding Crack Causes and the Preventive Measures of the Solid Carbide End Milling Cutter; Influences of Tennis Shoe Sole with Different Materials on Athletes' Movement; Promote the Development of Tennis through Applied New Macromolecule Polymer Material in Tennis Racket Design; Comparative Study on the Composites with Chopped Different Parts of Rice Straw as Raw Materials

The Sensitive Fluorimetric Method for the Determination of Curcumin Using the Enhancement of Mixing Micelle Eco-Friendly Synthesis of Sulphonic Acid Oxime Esters Catalyzed by 2-(1H-Benzotriazole-1-yl)-1,1,3,3-Tetramethyluronium Tetrafluoroborate; Effects of Heat Treatment on the Properties of Polyurethane/Clay Nanocomposites Paint; The Effect of pH and Heat Treatment on the Porous TiO₂ Nanostructures Derived from Triblock Copolymer Templating-Precipitation Technique of TiOSO₄ Solution

The Effect of Precursor Mixing Temperature during Precipitation Process on the Size of ZnO Nanoparticles and the Dispersion of ZnO@SiO₂ Core-Shell Nanostructure Lightweight Study on Axial Crushing Thin Cylindrical Tubes of Steel and Aluminum Alloy Based on Equal Energy Absorption; Hydrothermal Synthesis Nano-SrTiO₃ Powder and the Factors Control; Femtosecond Laser Machining of Silica and Transparent Materials; Heat Capacities and Standard Molar Enthalpy of Formation of Butyl 4-Hydroxybenzoate (C₁₁H₁₄O₃)

Low-Temperature Heat Capacities and Thermodynamic Properties of a New Complex [Na(H₂O)₂]₆[MoCo₆O₁₂(H₂O)₁₂]₄·3H₂O(s)

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Sustainable Energy and Environmental Engineering (ICSEEE 2013), 28-29 December, 2013, Shenzhen, China. The 162 papers are grouped as follows: Chapter 1: Advanced Materials Research, Chapter 2: Design and Research of Machinery and Equipments, Chapter 3: Electric Vehicles, Chapter 4: Building Materials and Construction Technologies, Chapter 5: Heating, Air Conditioning and Refrigeration, Chapter 6: Control and Automation, Computer Applications and Computational Algorithms in Design and Research for Indust
