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Nota di contenuto	Advanced Research on Material Engineering, Chemistry, Bioinformatics III; Preface and Committee; Table of Contents; Chapter 1: Material Engineering and Applied Mechanics; Phase-Field Micro-Solidification Simulation for Dendrite Growth in Ni-Cu Binary Alloy; Research in Non-Isothermal Crystallization Kinetics of LDPE and Inorganic Particle Composite Films; Wear Mechanisms Analysis of Material 20Cr2Ni4A; Wind Tunnel Test of Effect of Sound-Absorbing Material on Lift of Two-Element Airfoil; Preparation of Compound Clinoptilolite Filter Material and Performance of Ammonia Nitrogen Removal Silicon Based Compound Filter Material Strengthening A/O Bio-Filter Denitrification Performance Synthesis and Application of Manganese Oxide Based Nanomaterials; Study on the Giant Magnetostrictive Materials with Actuator Displacement Model Parameter Identification; Experimental Study on Freeze Thaw Resistance Concrete; A Comparative Analysis of the Performance of PVC Film Aging by Ultraviolet and Thermal Methods; Effects on the Properties of

## Polyethylene Film Aging by Different Methods

Research on Corrosion-Resistant Materials in Seawater with the Design Process and Research of AHTS's Modeling Research on Impermeable-Materials with the Elastic Wave CT Image Reconstruction of Quality of Cutoff Wall Based on SIRT Algorithm; The Material Mechanism Analysis of Airliner Forced Landing onto Water; The Importance of Reasonable Application of Materials in the Industrial Product Design; Study on Crystallization and Rheological Behavior of PEN/PET Blends; Research on the Influence of 500kV Power Engineering Materials Line Parameters to EFT/B

Electrochemical Investigation of Triadimenol as Corrosion Inhibitor for Copper in 0.5mol/L H<sub>2</sub>SO<sub>4</sub> Solution Effect of Activator on Mechanical Properties and Porosity of Cement-Base Repair Mortar; Effects of Different Ultrasonic Frequency on Total Phenolic Contents of Extracts from Navel Orange Residue; Temperature Analysis of Piercing Process Based on Material Properties in Diescher's Mill with Finite Element Method; Study on Constant Tension Winch with PDF Controller Applications in Ocean Engineering; Chapter 2: Chemistry Engineering, Environment Engineering and Energy Engineering

The Condensation Reaction of 4-Nitrobenzaldehyde and Rhodanine Catalyzed by Papain Synthesis and In Vitro Anti-Inflammatory Activity of Pyrrolo[1,2-A]pyrazines via Pd-Catalyzed Intermolecular Cyclization Reaction; The Activity of Lipase in H<sub>2</sub>O/[Bmim]PF<sub>6</sub> Microemulsions; Butanol Production Using Carbohydrate-Enriched *Chlorella vulgaris* as Feedstock; Study on Concentrate Tannin from Gallnut Extract by Membrane Integrated Method; Investigation of Y<sub>1-x</sub>C<sub>x</sub>BaCo<sub>2</sub>O<sub>5+</sub> Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells; A Novel Strategy for the Synthesis of Azetidine

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