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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Metallurgy Technology and Materials III; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Advanced Materials Science; Constitutive Equation of Mg-13Al-3Ca-3Zn-1Nd-0.2Mn Magnesium Alloy; The Dynamic Mechanical Behavior and Microstructural Evolution of Commercial Pure Titanium; Microstructure and Mechanical Properties of Sn-Zn Alloys by Gas Induce Semi-Solid Casting Process (GISS); Fluorinated Pyrocarbon Prepared from Ketjenblack for Primary Lithium Battery; Thermal Properties of Silicon-Containing Polyimide Filled with Carbon Black of Low Structure The Molecular Simulation Study of Optimum Blending Ratio for PVDF/PVC MembraneBoron Removal from MG-Si by Slag Treatment with Copper Addition; Hydrolysis Time on Rutile TiO2 White Pigment via Short Sulfate Process; Concentration of TiOSO4 on Rutile White via Short Sulfate Process; Research on the Manufacturing Methods of Self-Healing Microcapsules in Advanced Materials; Synthesis and Characterization of Polythiophene / SBA-15 Composite; Effect of Carbon Source on the Particles Morphology and Carbon Structure of

LiFePO4/C Composites

The Photocatalytic Activity of Degrading Congo Red Using SrFe0.5Co0.5O3-Effect of Si Content on Microstructure and Properties of 60Si2CrVA Spring Steel; Solubility of ZrO2 in Cryolite-Based Molten Salt System; Synthesis and Pseudocapacitve Properties of Tungsten Oxide Nanorods; Preparation of ITO Nano-Powder by the Method of Ammonia Complexation and Calcination; URSS/PVA/WP Composite Materials: Preparation and Performance; Preparation and Performance of CGFS Reinforced PVA/RSP Composite; Controlled Synthesis of -Al2O3 of Different Shapes via the Hydrothermal-Pyrolysis Method

Non-Linear Numerical Simulation on Mechanical Behaviour of Steel Reinforced Concrete (SRC) ColumnsMolecular Structure and the Removal Effect of COS over Iron Carbonyls: Fe2(CO)9; Investigation on the Effect of Cooling Condition on Chromium Elution from Stainless Steel Slag; Dynamics of Phase Transformation in Cu-Ni-Be Wedge Copper Alloy; Analysis on Crystallization Kinetics of Gypsum Prepared by Bittern under 40°C; Orthogonal Experiments for Kaolin Bleaching by Using Sodium Dithionite and Sulfuric Acid; Chapter 2: Materials Processing Technology

Effects of Solid Fractions in a Slurry Casting Process on Shrinkage and Microstructure of 7075 Aluminum AlloyIndustrial Experiment for Smelting H13 Die Steel by Direct Alloying with Molybdenum Oxides in EAF; Research on Microstructure of Aluminum 2219-T6 Friction Stir Welded Joint; Study of ZnO Neutralization & Iron-Precipitation Test in Zn Concentrate Pressurization and Lixiviation; The Bending Forming Mechanism of Copper Alloy by Different Lasers; Deoxidation and Inclusion Control in Stainless Steel Refining

Modeling for Prediction of Porcelain Products Temperature Profiles in a Tunnel Kiln

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Metallurgy Technology and Materials (ICMTM2014), April 25-26, 2014, Kunming, China. The 58 papers are grouped as follows: Chapter 1: Advanced Materials Science, Chapter 2: Materials Processing Technology, Chapter 3: Metallurgical and Mining Engineering, Chapter 4: Applied Mechanics, Mechanical Engineering and Information Technologies