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Titolo	Research in materials and manufacturing technologies IV : selected, peer reviewed papers from the 4th Internatioanal Conference on Materials and Products Manufacturing Technology (ICMPMT 2014), September 18-19, 2014, Chongqing, China / / edited by Prasad Yarlagadda and Yun-Hae Kim
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes at the end of each chapters.
Nota di contenuto	Research in Materials and Manufacturing Technologies IV; Preface and Conference Organization; Table of Contents; Chapter 1: Metals and Alloys; Damage Identification of Low Carbon Steel under Tensile Based on Elastic Modulus; Effect of Heat Treatment on Conductivity of Cu-1.0 Cr-0.12Zr Alloy; Effect of the Solid-Solution Treatment on the Die-Casting Structures and Properties of Commercial RE-AZ91D Mg Alloy; Effects of Compound Treatment of Pulsed Magnetic Field and Mechanical Vibration on Solidified Structure of Mg97Y2Cu1 Alloy Microstructure and Properties of Niobium Microalloyed Pipeline Steel in CSP and Steel Pipe Produced by ERWPreparation of PMMA/PP/ PP-g-MAH Alloy; Study on the Precipitation Sequence of Aged NCu30-4-2-1 Alloy by DSC; The Application of Non-Linear Optimisation Algorithm to the Simulation of Nimonic Alloy 75 at Elevated Temperature; The Determination of Solution Temperature for NCu30-4-2-1 Alloy; Influence of Imidazoline Inhibitor on CO2 Corrosion of N80 Steel in Annulus Zone of Pump Recovery Well; Effect of Alternating Traveling Magnetic Field on the Removal of Inclusions from Aluminum Melt

Effect of Atmosphere Proportion and Nitriding Time on Plasma Nitriding of Duplex Stainless Steel; Discussion on the Mechanism of Fe-Cr-Mo Electrodeposition; Effect of Segregation Purification Process on Content of Impurity Elements in High Purity Aluminum; Chapter 2: Composite Materials and Applications; Effect of Mg Content on Phase Structure and Electrical Properties of $(\text{Ba}_{0.97}\text{Ca}_{0.03})(\text{Ti}_{0.96-x}\text{Zr}_{0.04}\text{Mg}_x)\text{O}_3$ Ceramics; Effects of Different Sintering Temperature on the Microstructure and Piezoelectric Properties of $\text{Pb}(\text{Nb}_{2/3}\text{Zn}_{1/3})_x(\text{Zr}_{52}\text{Ti}_{48})_{1-x}\text{O}_3$ Ceramics; Fabrication of Pyrochlore $\text{Gd}_2\text{Zr}_2\text{O}_7$ by High Temperature Solid State Reaction; Improved Curie Temperature of Li-Doped Lead-Free $(\text{K},\text{Na})\text{NbO}_3$ Ceramics; Analysis; Improvement of Thermal Conductivity of Silicone by Carbon Nanotube Array (CNTA); In Situ Formation of Ti Matrix Composites Reinforced Nanometric TiC by Powder Metallurgy Technique; Microstructure and Reinforcing Mechanisms of Boron Carbide-Cerium Boride Porous Composites; Phase-Selective Synthesis of a Silicoaluminophosphate Molecular Sieve with 3-Aminopropyltriethoxysilane as the Silica Source; Preparation Cu-Doped Carbon Aerogels and their Adsorptive Desulfurization Performance; Preparation of $\text{B}_4\text{C}-\text{CeB}_6$ Porous Composites by Hot Pressed Sintering; Study on the Heat Shrinkable Property of Opaque COC/PETG Film; Syntactic Foam Prepared with Glass Hollow Spheres of Designed Size and Wall Thickness Ratio; Synthesis and Characterization of Ni-Doped Carbon Aerogels; The Effect of Compound Corrosion Inhibitor of Sodium Silicate in the Chlorine Dioxide Solution; The Effect of pH on the Fluorescence Properties of Thermally Stable CMC/Eu Complexes; Theoretical Analysis on Thermal Shock Resistance of Refractories

Sommario/riassunto

Collection of selected, peer reviewed papers from the 4th International Conference on Materials and Products Manufacturing Technology (ICMPMT 2014), September 18-19, 2014, Chongqing, China. The 248 papers are grouped as follows: Chapter 1: Metals and Alloys; Chapter 2: Composite Materials and Applications; Chapter 3: Chemical Materials, Bio-Materials and Energy Materials; Chapter 4: Building Materials and Construction Technology; Chapter 5: Material Processing Technology; Chapter 6: Materials Testing and Analysis, Materials Wear Resistance and Strength; Chapter 7: Advanced Design and Advanced
