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Nota di contenuto	Advanced Materials Research IV; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Composite Materials; Saccharose Particles as a Space Holder for Ti-Void Composite Preparation; Fabrication of Homogeneously Dispersed Nanoneedle Manganese Dioxide/Graphene Composite for High-Performance Electrode Use in Supercapacitor; Variation in Fineness of Cement-Based Composites Containing Sugarcane Bagasse Ashes; The Construction Technique of Steel-Wood Composite Core Formwork in a Large Span Prestressed Hollow Box Guider Machinability Assessment of Aluminium-Graphite-Silicon Carbide Hybrid CompositesMachinability Studies on Aluminium Matrix Hybrid Composites; Thermal Degradation of Flax Fibres as Potential Reinforcement in Thermoplastic Composites; Modification of Titanium Dioxide Embedded in the Bio-Composite Film for Photocatalytic Oxidation of Chlorinated Volatile Organic Compound; Chapter 2: Materials for Civil Engineering Applications; Ultrasonic Test on Recycled Concrete: Relationship among Ultrasonic Waves Velocity, Compressive Strength and Elastic Modulus New Production Technology of Cement ParticleboardAn Investigation on Effect of Oil Palm Shell Ash on Flexural Strength and Compressive

Strength of Cement Mortar; The Exploration of the Optimal Manufacturing Conditions of PE Modified Asphalt; Effect of Seashell Powder on Flexural and Compressive Strength of Cement Mortar in Early Age; Using High Temperature for Improve Compressive Strength of Ordinary Portland Cement Paste (OPC) - A New Approach; Prediction of Concrete Compressive Strength by Means of Combined Non-Destructive Testing  
Mechanism of Frictional Mortar-Less Panel and its Application in Reinforcement Concrete Frame  
The Application of Green Material in Modern Architecture; Chapter 3: Materials Engineering and Processing Technologies; Wear Monitoring on Microcrystalline Aluminum Oxide Grinding Wheels on Profile Grinding with the Aid of Acoustic Emission; Mechanical Properties of Dendritic and Inter-Dendritic Regions in As-Cast Medium-Carbon Steel; Erosion Behaviors of Impeller Material FV520B in Centrifugal Compressor  
The Formation of the Carbon Microcoils without the Catalyst on the Mesh-Type Stainless Steel Substrate  
Thermodynamics of Cr(VI) Adsorption on Thiourea Chelating Ion Exchange Fiber; Serrated Flow in an 11Cr Ferritic/Martensitic Steel; Corrosion Test about Interference of Cathodic Protection Systems in Marine Concrete Structure; Investigation of AC8A Scrap-Recycled Aluminum Foams; An Improvement in Tarnish and Corrosion Resistance of 94Ag-4Zn-Cu Alloys with Sn Addition; Molecularly Imprinted Polymers for the Analysis of Environmental Estrogen Bisphenol A  
Proposition of a New Valid Utilization for Shirasu Volcanic Ash Using Renewable Energy

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Advanced Materials Research (ICAMR 2014), January 22-23, 2014, Macau, China. The 82 papers are grouped as follows: Chapter 1: Composite Materials, Chapter 2: Materials for Civil Engineering Applications, Chapter 3: Materials Engineering and Processing Technologies, Chapter 4: Chemical Engineering and Biotechnological Research, Chapter 5: Nanotechnology, Nano-Materials and Nano-Composites, Chapter 6: Thin Films Research and Trends in Electronics

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