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Nota di contenuto	Eco-Materials Processing and Design XV; Preface and Organizing Committee; Table of Contents; I. Materials for Environment Preservation, Energy Conservation/Harvesting and New Energy; Characterization of Cast Iron Scrap Chips toward -FeSi2 Thermoelectric Materials; Two-Step Sintering of Non-Stoichiometric CeO2-x; Adsorption Characteristics of Impregnated Adsorbent for Mercury Removal; Effect of the Alkali-Activation on the Mechanical Property of Geopolymer Composite; Fabrication of FRP Spacers of Insulating Glass for Energy-Saving Eco-Friendly Home Synthesis of Diglycerol Ester as Insulating Oil for Offshore Wind Turbine TransformerThe Effects of Deposited Material and Loaded Amount within Synthesis of TMP-Ester; Effect of CaO Content on Yb: YAG Disk Laser Weldability of AZ31 Mg Alloy; Fabrication and Electrochemical Performance of Nitrogen-Doped Graphene Synthesized by Hydrothermal Method; Graphene Oxide Based Selective VOCs Sensor for Indoor Air Quality Monitoring; Thermocatalytic Degradation of Low Density Polyethylene Films at Artificial Aging Treatment under Lower

Temperature

Low-Temperature Thermocatalytic Degradation of Polyethene Films by Nano-Titanium Dioxide in WaterStudy on Aqueous Viscosity Behaviors of Hydroxypropyl Methylcellulose Hydrosol and Konjac Glucomanan Hydrosol; Effect of Lignin and RLDPE Soil Amendments on Water Holding Capacities of Desert; Biosorption of Strontium Ions by Low-Cost Sunflower Stem and Leaf; Preparation and Characterizations of Novel Near Room-Temperature Driven Fe/Sr2Bi2O5 Thermocatalyst; Effects of Ultrafine Grinded Steel Slag Addition on Properties of Cement Effect of Calcium Compounds on Mechanical Properties of Eco-Friendly Non-Cement MortarEnhancement of PEM Fuel Cell Performance by Flow Control; II. Materials Cutting and Processing Technologies for Reduction of Environmental Impact; A Comparative Study on the Physical Properties of Artificial Aggregates Made from Acid Clay and Dredged Soil; Dust Removal Using Electrode-Plates Coated with Activated Carbon; Effects of Nano-Porous Materials and Inert Gas on Sound Proof Properties of Double Layer Acryl Plate; Characteristics of MSWI Ash and its Application to Zeolite Synthesis
III. Eco-Processing and Design on Polymer, Ceramics, Metals, SemiconductorsCharacteristics of Pollutants Removal by Carbonized Porous Media Made from Sewage Sludge ; Fabrication of Aluminum Superhydrophobic Surface with Facile Chemical Etching Method; Purification and Size Control of AlN Powder for AlN Single Crystal Growth; A Brief Review on TiO2 Coating Deposited by Cold Spraying; Protective Agent Free Eco-Synthesis of Silver Nanowire via Needle-Shaped Silver Acetate Precursor; Synthesis and Characterization of Ag/Graphene Nanocomposites by Solid-Liquid Sonochemical Reactions Production and Characterization of Recycled SUS 439L Powders by Gas Atomization Process

Sommario/riassunto

Collection of selected, peer reviewed papers from the 15 th International Symposium on Eco-Materials Processing and Design, (ISEPD), January 12-15, 2014, Hanoi, Vietnam. The 74 papers are grouped as follows: I. Materials for Environment Preservation, Energy Conservation/Harvesting and New Energy,II. Materials Cutting and Processing Technologies for Reduction of Environmental Impact, III. Eco-Processing and Design on Polymer, Ceramics, Metals, Semiconductors, IV. High Performance Materials Including Nano-Materials for the Environment, and Coating/Corrosion, V. Hybrid Materials and Composites fo