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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advanced Materials and Technologies; Preface and Conference Organization; Table of Contents; Chapter 1: Nano Materials Science and Technology; Grain Boundary Internal Friction Peak in Nanocrystalline Aluminum Studied by Continuously Changing-Temperature; Synthesis of Dendritic Silver Nanostructures on Al Foil by Galvanic Displacement for Catalytic Degradation of Methylene Blue; Synthesis of Porous CeO2 Nanostructures Using Cotton Fibers as Biomaterial Template; Effect of Feeding Rate on Properties of Cu-Ag Alloy Nanopowders; Morphological Characteristics of W-Nanowires after Selective Etching Nanoscience: The Scale of LatviaPreparation of Conductive Ink with Silver Nanoparticles and Application in Transparent Conductive Films; Shape-Controlled Synthesis of Ag Nanocubes with Uniform Size; Recent Simulation Study on Precise Positioning of Carbon Nanotubes by Dielectrophoresis; Synthesis of Hollow Ba0.7Sr0.3TiO3 Nanocubes by Using Molten Hydrated Salt as a Solvent; Preparation and Modification of Nanometer TiO2 with High Reflectivity; Self-Assembly of Gold Nanoparticle Arrays with Anodic Aluminum Oxide Template Research on the Controllable Preparation of Silver Nanowires in Conductive AdhesivesPreparation of Size Controllable BaTiO3 Nanoparticles in Microemulsion at Low Temperature; Synthesis of

Titanium Carbonitride Powders by Reactive Ball Milling of Titanium, Graphite and Urea; Synthesis and Characterization of Eu³⁺-Doped Transparent Glass-Ceramics Containing Nanocrystalline AlNbO₄; Retardant Properties of Nanosilica/PTFE Nanoparticles-Reinforced Polypropylene; Performance Study of Ti-Pillared Montmorillonite Nanocomposites
 A Study on a Functional Emulsion Coating and Infrared Laser-Induced Imaging Performance
 Effect of Chemical Treatment on Multi-Walled Carbon Nanotubes/Epoxy Composite; Preparation of Nano-Composite Photocatalyst to Remove TOC in Power Plant Boiler Make-Up Water; Synthesis and Magnetic Properties of LaMnO₃/Al₂O₃ Magnetic Nanocomposites; Chapter 2: Metals and Alloys; Corrosion Behaviour of AZ91D Mg alloy with Different Preparation Methods; Effect of the Content of Ca on the Microstructure of Magnesium Alloys
 Effects of Pulsed Magnetic Field on the Microstructure and Mechanical Properties of Mg₉₇Y₂Zn₁ Alloy
 Impact Strength Behavior and Fracture Morphologies of Tungsten Alloy with High Deformation; Microstructure and Property Analysis of Furnace Pipe Used over a Design Cycle; The Research Progress of Aluminum Alloy Corrosion in Marine Atmosphere; Effect of Environment on Fatigue Crack Propagation Behavior of an Al-Cu-Mg Aluminum Alloy; Microstructure Evolution and Mechanical Properties of an Al-Cu-Mg Alloy at Elevated Temperature
 Microstructure Evolution of Zn-Al Cladding Fabricated on AZ31 Magnesium Alloy

Sommario/riassunto

Collection of selected, peer reviewed papers from the the 4th International Conference on Advanced Engineering Materials and Technology (AEMT 2014), June 14-15, 2014, Xiamen, China. The 323 papers are grouped as follows: Chapter 1: Nano Materials Science and Technology, Chapter 2: Metals and Alloys, Chapter 3: Steel Materials and Applications, Chapter 4: Resin, Rubber and Polymer Materials, Chapter 5: Optical/Electrical/Magnetic Materials and Technology, Chapter 6: Ceramic Materials and Technologies, Chapter 7: Composite Research and Applications, Chapter 8: Fiber Materials, Chapter 9: Chemicals
