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Nota di contenuto	Supplemental Proceedings Volume 2: Material Fabrication, Properties, Characterization, and modeling; TABLE OF CONTENTS; 2011 Functional and Structural Nanomaterials: Fabrication, Properties, Applications and Implications; Fabrication of Nanomaterials II; Fabrication of Gold-Platinum Nanoalloy by High-Intensity Laser Irradiation of Solution; Nanomaterials-Characteristics; Crystallization Kinetics and Giant Magneto Impedance Behavior of FeCo Based Amorphous Wires; Sunday Evening Poster Session: Functional Materials; Fe-Based Amorphous-

## Nanocrystalline Thermal Spray Coatings

Enhanced Photocatalytic Activity of Modified TiO<sub>2</sub> for Degradation of CH<sub>2</sub>O in Aqueous Suspension; Preparation and Characterization of ZnS Thin Films Using Chemical Bath Deposition Method: Effects of Deposition Time and Thermal Treatment; Femtosecond Laser-Induced Synthesis of Colloidal AuAg Nanoalloys from Aqueous Mixture of Metallic Ions; Electrochemical Performances of Nanoporous Carbon Anode for Super Lithium Ion Capacitor; Effect of Temperature Schedule on the Particle Size of NiFe<sub>2</sub>O<sub>4</sub> Spinel Nanopowder during Solid-State Reactions

Interfacial Properties of Cu-Nb Multilayers as a Function of Dislocation/Disconnection Content; Long-Time Photoluminescence Kinetics in Quantum Dot Samples; Synthesis and Characterization of Mullite; Characterization of Hybrid Carbon-Nanotube Composite Interfaces as a Function of Length Scale; Synthesis and Characterization of Nanostructure Forsterite Bioceramic for Tissue Engineering Applications; Investigation of Mechanical Properties of Silica/Epoxy Nano-Composites by Molecular Dynamics and Finite Element Modeling; Tuesday Evening Poster Session: Ultra Fine Grained Materials; Basal-Plane Stacking-Fault Energies of Mg: A First-Principles Study of Li- And Al-Alloying Effects; Development of Al-TiB<sub>2</sub> Nanocomposite; Dry Sliding Wear and Corrosion Behavior of Ultrafine-grained HSLA Steel Processed using Multi Axial Forging; Heterogeneity of Microstructure Evolution in NiTi (50 at% Ni) Alloy Severely Deformed by High Pressure Torsion; Aluminum Alloys: Fabrication, Characterization and Applications; Development and Application; Hot Tensile Behaviour and Constitutive Analysis of Al-5.5Zn-1.2Mg/Zr Alloys; Production of Continuous Cast 3105 Coil-Stock for Thin Gauge Roller Shutters; Emerging Technologies; Preparation of Al-Li Alloys for Lithium-Air Secondary Battery by Solid Diffusion Method; Effects of Process Parameters on Rolled Precursor of Aluminum Foam Sandwich Panel; Preparation of Aluminum Foam Using a Novel Gas-Generating Agent; High Temperature Dry Sliding Wear Behaviour of Aluminium-Silicon/Graphite Composite Processed by Stir Casting; Preparation and Characterization of Short Carbon Fiber Reinforced Aluminium Matrix Composites; Materials Characterization; Effect of Ultrasonic Impact Treatment on a 5456 Aluminum Alloy; Characterized through Micro-Specimen Testing and X-Ray Tomography

### Sommario/riassunto

Presents the most up-to-date information on the state of Materials Fabrication, Properties, Characterization, and Modeling. It's a great mix of practical applied technology and hard science, which is of invaluable benefit to the global industry.