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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Materials Science; Preface, Technological Committees and Sponsors; Table of Contents; Chapter 1: Nanomaterials and Nanotechnologies; Application of the Nanostructured Carbon Coatings for Improvement of Functional Properties of Medical Polyurethanes; The Dispersion of MWCNTS in Acetone Solution of SAN; Removal of Paraquat from Aqueous Solutions Using Multi-Walled Carbon Nanotubes: Kinetic, Isotherm and Thermodynamic Studies; Effect of Nanostructured Oxide Coatings on Tensile Properties of Cast Pure Magnesium Multifunctional NaYF4:Yb3+, Er3+@Au Nanocomposites: Upconversion Luminescence, Temperature Sensing and Photothermal TherapyComparative Studies for the PAMAM/RE and HPAE/RE (RE=La, Nd, and Eu) Based on Molecular Dynamics Simulations; Facile Synthesis and Photocatalytic Properities of Mini Nanoparticle CdS Quantum Dots/Boron and Nitrogen Co-Doped TiO2 Transparent Photocatalyst Emulsion; Nanomagnetic Particle Anchored to Monodispers Porous Microspheres for Pectinase Immobilization; Effect of Noble Metal Nanoparticles in SERRS Measurements of Water-Soluble Porphyrins In Situ TEM Manipulation and Property Study of Cd2Ge2O3

1.

	NanowiresStructures and Performances of PA6/PVA Nanofibers Membranes from Electrospinning; A Simple Solvothermal Synthesis of Spherical Y2O3:Eu3+; Antibacterial Potential of Silver Nanoparticles Capped with Poly(4-styrenesulfonic acid-co-maleic acid) Polymer; Chapter 2: Thin Films; Synthesis, Characterization and Thermal Properties of SiO2/Pi Composite Film; Fabrication and Characterization of Al/Ni Multilayer Films; SiO2ZrO2 Thin Films as Low Temperature NO2 and O3 Sensors
	Preparation and Characterization of Cd1-xZnxS Thin Films with Chemical Bath DepositionSynthesis and Characterization of Au-CdS Composite Thin Films for Photoelectrochemical Sensing of Hg2+ lons; Highly Transparent Flexible Clay Film with Organized Polymer; Study on Preparation and Surface Properties of Fluorinated Acrylate Hydrophobic Polymer Film; Effect of Thermal Annealing on La2O3 Films Grown by Plasma Enhanced Atomic Layer Deposition; Chapter 3: Metal-Based Materials, Alloys and Metallurgical Technology Effect of Oxygen Content in Powders on Microstructure and Mechanical Properties of WC-FeAI Composites Fabricated by Vacuum Sintering TechniqueInfluence of Chlorine Additives on Combustion Rate of Pulverized Coal Injection; Friction Stir Processing of Cast Iron Using Cermet Tool; Welding-Brazing Characteristic in Electron Beam Joining Vanadium Alloy and Stainless Steel; Improvement of Wet Milled TiC- Feal Alloys; Application of Orthogonal Experiments Design to Optimize Process Parameters in the Alloy Heat Treatment; Study on Clinching for Similar and Dissimilar Titanium Alloy
Sommario/riassunto	<ul> <li>Properties of 6013 Type Aluminum Alloy</li> <li>Collection of selected, peer reviewed papers from the International Conference on Advances in Materials (ICAM 2014), December 13-14, 2014, Shanghai, China. The 167 papers are grouped as follows:</li> <li>Chapter 1: Nanomaterials and Nanotechnologies; Chapter 2: Thin Films; Chapter 3: Metal-Based Materials, Alloys and Metallurgical Technology; Chapter 4: Crystallography, Chemical and Cathode Materials; Chapter 5: Polymers and Composite Materials; Chapter 6: Biomaterials and Biotechnologies; Chapter 7: Materials and Technologies in Environmental Engineering; Chapter 8: Building Materials and Technologies</li> </ul>