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Collana	Key engineering materials, , 1013-9826 ; ; v. 471/472
Altri autori (Persone)	SapuanS. M
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Note generali	"In this conference, composites research topics presented include mechanics of composites, infrastructural composites, non destructive evaluation and characterization of composites, fracture and fatigue of composites, numerical and mathematical modelling, ceramic matrix composites, metal matrix composites, composite manufacturing, polymer composites, smart materials and structures, nano composites, bio composites and structural health monitoring"--Pref.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Composite Science and Technology; Sponsors, Committees and Preface; Table of Contents; Composite Fracture: Getting to the Heart of the Matter; Recent Developments in PA6/PP Nanocomposites; Fabrication and Characterization of Unidirectional Silk Fibre Composites; Effect of Carbon Black and Fly Ash Fillers on Tensile Properties of Composites; Producing Particleboard Using of Mixture of Bagasse and Industrial Wood Particles; Critical Speeds for Carbon/Epoxy Composite Rotors in Spacecraft Energy Storage Applications Influence of Polyacrilonitrile (PAN) Concentration on the Mechanical and Physical Properties of Electrospun FibresManufacture of Composite Panel from Sugarcane Bagasse; Assessment of Strength Properties of Biocomposite from Oil Palm Frond; Mechanical Properties of Composite Panels from Rice Husk; Manufacturing of Wood-Plastic Composite from Completely Recycled Materials; Rheology and Processing of Ni Based

Nano-Composite Pastes for Electronic Assembly; Immediate and Long-Term Deflection of Carbon Fiber Reinforced Polymer (CFRP) Concrete Beams
Flexural Performance of RC Beams Strengthened with Different Reinforcement Ratios of CFRP Laminates Evaluation of Physical and Mechanical Properties of Paulownia Wood Core and Fiberglass Surfaces Sandwich Panel; Optimum Condition of Manufacturing Wood-Based Composite from Mixture of Wood Particles/Walnut and Almond Shells; Microstructure Characterisation of Ag2O3-Bi2O3 Composite Cathodes for Intermediate Temperature Solid Oxide Fuel Cells (IT-SOFCs); A Review of Non-Destructive Thermography Techniques Toward Structural Integrity of Bio-Composites
Effects of Different Particles Sizes of Graphite on the Engineering Properties of Graphites/Polypropylene Composites on Injection Molding Application Mechanical and Morphological Properties Evaluation of HDPE/Organoclay Nanocomposites with Various Percentages of NR Content; Nano-Alumina and Radiation Effect on the Mechanical Properties of High Density Polyethylene/Hydroxy Apatite Composite; Influence of Crystallite Size on Consolidation of Carbon Nanotube Reinforced AA 4032 Composite Powders by Equal Channel Angular Pressing
Thermal Free Vibration Analysis of Temperature-Dependent Functionally Graded Plates Using Second Order Shear Deformation Optimal Sintering Procedure to Fabrication of Functionally Graded Hydroxyapatite-Titanium; Processing and Characterization of Palm Fiber-Polypropylene Composites; Effects of Antioxidants Content on the Physical and Mechanical Properties of Wood Plastic Composites; Effect of Loading Concentration on the Electrical and Hardness Properties of MWCNT/Epoxy Nanocomposites
Effect of Wet Oxidation on the Dispersion and Electrical Properties of Multi-Walled Carbon Nanotubes/Epoxy Nanocomposites

Sommario/riassunto

This collection of more than 204 peer-reviewed papers on Composite Science and Technology covers: mechanics of composites, infrastructural composites, non-destructive evaluation and characterization of composites, fracture and fatigue of composites, numerical and mathematical modelling, ceramic matrices, composites, metal-matrix composites, composite manufacturing, polymer composites, smart materials and structures, nano-composites, bio-composites and structural health monitoring. This makes it a handy guide to the state-of-the-art of this field. Review from Book News Inc.: This two-volume col