

1. Record Nr.	UNINA9910806159903321
Titolo	Intelligent materials and mechatronics : selected, peer reviewed papers from the 2013 International Conference on Intelligent Materials and Mechatronics (IMM 2013), November 1-2, 2013, Hong Kong // edited by Guohui Yang
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2014] ©2014
ISBN	3-03826-316-8
Descrizione fisica	1 online resource (466 p.)
Collana	Applied mechanics and materials ; ; 464
Altri autori (Persone)	YangGuohui
Disciplina	620.11
Soggetti	Smart materials Mechatronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Intelligent Materials and Mechatronics; Preface and Organizing Committee; Table of Contents; Chapter 1: Materials Science and Engineering Chemistry; Hyperbranched Polysiloxane Functionalized Graphene Oxide via Polyhydrosilylation; Effect of Catalysts on the Properties of Fluorinated Polyurethanes; Experimental and Numerical Simulation of Absorbing Property of Cement-Based Material Blending with Silica Fume and Culver Zed Fuel Ash; Experimental and Numerical Simulation of Absorbing Property of Cement-Based Material Blending with Graphite and Carbon Fibers Restrained Shrinkage Ring Test on Polymer Fibres Treated in Cold Plasma Discharge A Study of Properties of Dilute Polymer Systems Prepared with Polymer-Bearing Wastewater; Effects of Sufentanil Postconditioning on Myocardial Ischemia-Reperfusion Injury in Rats In Vivo; Research of In Situ Grafted Carbon Black; Influence of Ge and Si Doping on the Microstructure and Dielectric Properties of Barium Titanate Ceramics; Magnetic Property of Hole-Doped Double Perovskite Compound; Fabrication of NiO Nanorings by Bubble-Bursting Bubbles as Templates Investigation on the Microstructure and Segregation of Superalloy FGH96 by Direct Laser Forming Preparation of Gold-Nickel Phosphide

Core-Shell Nanoparticles via a Facile Solution Method; The Stress-Strain Behaviors of High Density Aluminum Foam under Monotonic and Cyclic Loading; Transmittance Characteristics of ITO/SiO₂/Nb₂O₅ Multi-Layered Film; Box-Behnken Design Based Statistical Modeling and Optimization of Cellulase-Assisted Microwave Extraction of Polysaccharide from *Elaeagnus Angustifolia* L.; Structure and Magnetic Properties Investigation of CoZr and CoZrN Thin Films
Electrical and Structural Properties of Multioriented Thin Film PZT Deposited at Room Temperature by RF-PVD
Analysis of Light Scattering Properties about Dent Nanoparticles upon Wafer; Effects of High Pressure Treatments on the Ripening of Hard Cheeses; Chapter 2: Research and Design in Mechanical Engineering; ADAMS-Based Simulation Study on Lateral Stability of Counterbalanced Forklift Trucks; Aeroelastic Tailoring of Oscillating Supersonic Wing with External Stores; Performance Analyses and Experimental Verification for the Clamping Mechanism of Die Casting Machine; SIP: Smart Insulin Pump Interactive Foot Orthosis (IFO) for People with Drop Foot Hydraulic System Design Research Based on Green Design; Implementation of ESD Protection for Output Driver ICs with SCR Circuits Techniques; Study on a New Evaluation Method of the Use Condition of Water Flooding; Comparison between Rankine Cycle and Trilateral Cycle in Binary System for Power Generation; Flow Field Analysis of a Horizontal Wave Flow Turbine Power Plant Based on FLUENT; Heat Transfer Enhancement Using Ultrasonic Waves in Presence of Liquid: A Basic Research for Cooling Electronic
Computational Fluid Dynamics Analysis for Flow Field of Radiator Air Intake in the Powertrain Compartment

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Conference on Intelligent Materials and Mechatronics, (IMM 2013), November 1-2, 2013, Hong Kong, China. The 81 papers are grouped as follows: Chapter 1: Materials Science and Engineering Chemistry; Chapter 2: Research and Design in Mechanical Engineering; Chapter 3: Environmental Engineering; Chapter 4: Mechatronics, Automation and Robotics; Chapter 5: Computational Methods and Algorithms, Applied Information Technologies; Chapter 6: Related Themes
