

1. Record Nr.	UNINA9910791908003321
Titolo	Applied mechanics, materials, industry and manufacturing engineering : selected, peer reviewed papers from the 2012 2nd International Conference on Mechanical Engineering, Industry and Manufacturing Engineering (MEIME2012), June 23-24, 2012, Hefei, China / / edited by Helen Zhang and David Jin
Pubbl/distr/stampa	Durnten-Zurich, Switzerland ; ; Enfield, NH : , : Trans Tech Publications, , [2012] ©2012
ISBN	3-03813-739-1
Descrizione fisica	1 online resource (538 p.)
Collana	Applied mechanics and materials, , 1662-7490 ; ; volume 164
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Disciplina	620.1
Soggetti	Mechanical engineering - Research Industrial engineering - Research Engineering design Industries
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	Applied Mechanics, Materials, Industry and Manufacturing Engineering; Preface and Committees; Table of Contents; Chapter 1: Material Research in Mechanical Engineering, Industry and Manufacturing Engineering; Research on Propagation Characteristics of Stress Waves in Laser Shock Processing for DD6 Single Crystal Alloy Materials; Predicting the End Temperature of Molten Steel Using CBR; Influence of Surface Modification on Si ₃ N ₄ Powder Fluidity; Preparation and Magnetic Propriety of Carbon-Coated Iron Magnetic Nanoparticles by Starch Coating Method The Reaction Kinetics of Aluminum and Isopropanol Study on Critical Load Position and Cracking in Asphalt Layer of Continuously Reinforced Concrete Composite Asphalt Pavement; Py-GC-MS Analysis on Biomass Energy Components from Wood Extractives of Eucalyptus urophydis under High Temperature; Study on Corrosion Inhibition Performance of

PASP Composite on A3 Carbon Steel in Seawater; Affection of Manufacture Parameters and Mixture Material on Plastic Alloy Bearings; Thermal Study on the Grinding Special-Shaped Surface of Granite Material

Ferroelectric and Optical Properties of BST/BZT/BST Sandwich Structure Thin Films Prepared by RF SputteringEffect of Wood Extractives on Burning Time of Fuel for Add-On Bioenergy; Orthogonal Analysis on Hardness of Nickel/Graphite Sealing Coating; Effect of Laser Processing on Electroless Copper Deposition on Modified Plastic; Influences of Process Parameters on the Forming of YAG Phase; Preparation and ESR Properties of Silicon Nitride Nanowires; Gearbox Non-Ferrous Metal Bearing Wear Condition Monitoring Based on Oil Analysis

Solar Shading Performance of Different Louver Shading Materials in Hot Summer and Cold Winter ZoneResearch on Material Selection Standard of Graded Crushed Stone Base Course for Municipal Road; A Comparative Study on Building Energy Performance between Movable and Fixed Shading Materials; Evaluation on Safety of Internal Bambooen and Wooden Biomaterials for Food; Effect of same Insulation Materials on Energy-Saving Potential of Different Buildings; Application of Fluorescent Aerosols to Verifying the Leakage of Protective Clothing by Image Processing

Healing of Cracked Concrete by *Sporosarcina pasteurii* Mediated Carbonate DepositionModelling of Chloride Diffusion into Surface-Biodeposited Concrete; Treatment of the Lead Waste Water with Electrochemical Process; Low-Temperature Synthesis and Characterization of Single-Phase BiFeO₃ Nano-Crystallites; Electron Transport of Boron Nitride Nanoribbons Materials; The Structure and Fluid Flow Analysis for a New SXSH Static Mixer; The Application Research of Biological Materials in Meniscus Injuries; Preparation Process of Antioxidation Coating of Prebaked Carbon Anode Steel Claw Study on Pile-Soil Interaction during Pile Sinking and Drivability of Pile in Offshore Platform

Sommario/riassunto

These are the proceedings of the 2nd International Conference on Mechanical Engineering, Industry and Manufacturing Engineering (MEIME2012), held on the 23rd and 24th June, 2012, in Hefei, China. Readers will find herein many original ideas and new visual angles on aspects of Applied Mechanics and Materials in Mechanical Engineering, Industry and Manufacturing Engineering. Review from Book News Inc.: Peer-reviewed papers from a June 2012 conference held in China are gathered here, in sections on materials research, mechanics, and dynamic systems for mechanical engineering, industry, and manufa
