Record Nr.	UNINA9910826461803321
Titolo	Energy and materials research for the future : selected, peer reviewed papers from the 2014 2nd International Conference on Future Energy & Materials Research (FEMR 2014), December 24-25, 2014, Wuhan, China // edited by Mustafa I. Fadhel and Yijin Wu
Pubbl/distr/stampa	Pfaffikon, Zurich, Switzerland : , : Trans Tech Publications, , 2015 ©2015
ISBN	3-03826-812-7
Descrizione fisica	1 online resource (249 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1090
Disciplina	620.11
Soggetti	Materials science - Research
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 at the end of each chapters and indexes.
Nota di contenuto	Energy and Materials Research for the Future; Preface and Organizing Committee; Table of Contents; Chapter 1: Materials Engineering; Preparation and Characterization of Castor Oil-Based Cationic Waterborne Polyurethane; NN '- Three the Two Amine Ether's Synthesis and Help-Dye Application; Characterization of Shear Interfacial Mechanical Properties in Adhesive Layer by Hybrid/Inverse Method; Hypotheses about the Tools Origin of Textile Materials; On the Design and Materials Selection of Composite Material Ocean Flexible Pipe Evolution Mechanism of the Crystallite Geometry in PAN-Based Carbon Fibers during High-Temperature Heat TreatmentThe Structure and Properties of UV-Curable Cationic Waterborne Polyurethane Acrylate; The Influence of Crystallization on the Ionic Conductivity of PEO/LiCIO4 Polymer Electrolytes; Synthesis of Graphene Oxide Frameworks and their Application in Electrocatalytic Preparation of Hydrogen Peroxide; Preparation of Silica Aerogels Modified Foamed Polypropylene for Thermal Insulating Applications Effect of Surface Texture Molded by a Stainless Steel Mesh on the Invisalign Material Friction CoefficientChapter 2: Metals, Steel and Alloys; Influence of Jet Velocities and Material Properties in Quenching of Metal with Array of Jets; Inhibition Activities of Sorbitol on the

1.

	Corrosion of Steel Rebar; Effect of Potential on Stress Corrosion Cracking of 321 Stainless Steel under Marine Environment; Corrosion Behavior and Microstructure of Pd Ions Doped Cerium Conversion Coating on AA2219-T87 Aluminum Alloy Research of Recognition Method for Surface Defects of Hot-Rolled Round Steel Based on Image ProcessingChapter 3: Building Materials; Elastic Modulus Calculation of Lightweight Aggregate Concrete; Novel Microbial Based Low Energy Green Building Material Production Technology; Lightweight Concrete Strength Prediction by BP-ANN; Stability Analysis and Natural Frequency Calculation of Composite Cap- Beam; Chapter 4: Biochemistry Materials and Engineering; Effects of Ultrasonic Technology on Functional Properties of Peanut Proteins Research on the Stability and Content Detection of Anthocyanin of Black Peanuts ClothingNon-Destructive Detection of Lingwu Long Jujube Quality by Dielectric Spectroscopy; Research on the Relationship between Freshness and Dielectric Spectrum of Postharvest Ling-Wu Long Jujubes; Optimization of Preparing Technology of Magnetic Carboxymethylchitosan Microspheres Molecular-Imprinted by 6- ethoxydihydrosanguinarine Using Response Surface Methodology; Simulation of Citronellal Extraction Tower Based on Aspen Plus Software Optimization of Experimental Conditions for the Preparation of High Specific Surface Area Bamboo-Based Activated Carbon
Sommario/riassunto	Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Future Energy & Materials Research (FEMR 2014), December 24-25, 2014, Wuhan, China. The 42 papers are grouped as follows: Chapter 1: Materials Engineering; Chapter 2: Metals, Steel and Alloys; Chapter 3: Building Materials; Chapter 4: Biochemistry Materials and Engineering; Chapter 5: Energy Materials Engineering;Chapter 6: Manufacturing Materials and Engineering, Applied Materials