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Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Number 737
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Soggetti	Energy policy Environmental engineering Power resources
Lingua di pubblicazione	Inglese
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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	Applied Energy and Environment Technologies and Materials; Preface and Conference Organization; Table of Contents; Chapter 1: Development and Utilization of Solar Energy, Biomass Energy, Wind Energy and other New Energies; The Analysis of Evolution Characteristic for Maximum Wind Speed in the Hexi Corridor; A Two-Stage Combination Model for Wind Power Forecasting; Analysis of Corn Straw Pyrolysis Bio-Oil Composition; Influence of Solar Panels in Distributed Photovoltaic Power Generating System above Farm Land on Field and Crops Influences of Environmental Factors on the Maximum Power Point of Photovoltaic Cells Large-Scale Automatic New Energy Resources System Controlling Temperature and Pressure; New Process for Etherification of Glycerol with Isobutene; Numerical Simulation and Experimental Research on Higher Heating Value Biomass Gas Gasifier; Optical Losses through Gaps of CPCs with One-Sided Flat Absorber; Performance Analysis of Diesel Engine Using Bio Ethanol (Water Hyacinth) by Response Surface Methodology (RSM); Research of Characteristics Biomass Staged-Gasification for Hydrogen-Rich Syngas

Research on the Correlation between Biodiesel's Composition and Physical & Chemical Properties Theory of Solar Hot Water System Construction Application Engineering Evaluation Field Test Method - The Amount of Solar Irradiance Intercept Method; Wind Power Prediction Model Based on Wavelet Neural Network under Missing Data; Chapter 2: Energy Materials, Energy Chemical Engineering, Fuel Cells and Management, New Energy Vehicles and Electric Vehicles; A Analysis on the Importance of Lithium Battery Cooling for Pure Electric Vehicles Based on Graphene Electrodes PbSe / CdSe Core-Shell Quantum Dots Battery Hydrothermal Upgrading of Bitumen with Glucose as Hydrogen Donor; Optimization of Catholyte in Hydrogen Redox Fuel Cell; Potential Energy Curves and Spectroscopic Properties of C-2 Studied by Configuration Interaction Method; Reduced Thermal Conductivity in ZrNiSn-Based Heusler Alloys; Research on Electric Vehicle to Household Electricity Interactive Mode Considering Photovoltaic Power Generation; Solar Cells of the Inorganic Materials based on PbSe/CdSe Core/Shell Nanocrystals  
The Development Status and Trends of Air Conditioning on New Energy Vehicles TLC-FID and GC-MS Analysis of Tars Generated by Oil Sand Pyrolysis at Different Temperature; Crude Oil Price and Fuel Ethanol Firm Profit; Chapter 3: Green Building Materials, Ecological Buildings, Energy-Saving Buildings and Architectural Environment Analysis; Analysis of Energy Saving Design of Solar Building - Take Tongji University Solar Decathlon Works for Example; Construction Energy Conservation Domain Carbon Transaction Mechanism Economic Efficiency Research  
Curing Behavior for Microencapsulated Curing Agents on Epoxy Resin Systems

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Forum on Applied Energy and Environment (IFAE 2014), November 28-29, 2014, Shenzhen, China. The 191 papers are grouped as follows: Chapter 1: Development and Utilization of Solar Energy, Biomass Energy, Wind Energy and other New Energies; Chapter 2: Energy Materials, Energy Chemical Engineering, Fuel Cells and Management, New Energy Vehicles and Electric Vehicles; Chapter 3: Green Building Materials, Ecological Buildings, Energy-Saving Buildings and Architectural Environment Analysis; Chapter 4: Power System and Automati

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