

1. Record Nr.	UNINA9910820275703321
Titolo	Applied power and energy technology II : selected, peer reviewed papers from the 2014 2 nd International Conference on Advances in Energy and Environmental Science (ICAEES 2014), June 21-22, 2014, Guangzhou, China // edited by Hongbo Fan, Xiaoguo Liu and Shengzhou Chen
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : TTP, , 2014 ©2014
ISBN	3-03826-591-8
Descrizione fisica	1 online resource (1593 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 1008-1009
Disciplina	609
Soggetti	Technology - History
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	Applied Power and Energy Technology II; Preface and Conference Organization; Table of Contents; Chapter 1: Development and Utilization of Solar Energy; A Social Publics' Evaluation for Promotion Priority of Solar Energy Policy in Taiwan Based on Analytical Hierarchy Process; Measuring and Evaluating Solar Radiative Properties of a Shading Plant; Research of Solar Refrigeration Technology; Research on Modeling and Control Strategy for Two-Stage Photovoltaic Grid-Connected System; The Calculation and Analysis of UAV Solar Array Power Generation A New Technique to Improve the Efficiency of Output Power Solar Panel Using PIC 18F4550 Microcontroller Exergy Analysis of Concentrated Solar CHP System for Building Scale Utilization; Research of Available Capability of Accommodating PV Power Generation of Tibet Power Grid Based on Capacity of Peak Load Regulation Constraints; Research of Off-Grid Household Photovoltaic Power System; Study Experiment of Energy Harvesting System Based on Solar and Vibration; The Study on the Energy Saving of Wall Mounted Solar Capillary Low-Temperature Hot Water Radiant Heating System Experimental Study on the Heat Exchanger Performance of Parabolic

Trough Solar Water HeaterMPPT Strategy of PV System Based on Adaptive Fuzzy Control; Stimulation and Optimization of Parabolic Trough Solar Hot Water System; Electrical Generation of Dye-Sensitized Solar Cells Using Sensitizer from Rose Flower; Performance Comparison between Dyes on Single Layered TiO<sub>2</sub> Dye Sensitized Solar Cell; The Comparative Analysis of the Stratospheric Airship Power Supply System; Chapter 2: Development and Utilization of Biomass Energy Analytic Hierarchy Process of Environmental Social Groups for Promoting Biomass Energy in TaiwanBiomass Production of Switchgrass in Saline-Alkali Land; Study on Sugar Production Conditions of Dilute Sulfuric Acid Hydrolysis of Corn Straw; The Influence Factors of Biodiesel Preparation from Waste Cooking Oil via Acid Catalyst; The Investigation Based on Heating with Biomass Energy for Biogas Digesters Winter Gas Production Technology in Cold Regions; Comparison of Pretreatments for Lignocellulosic Biomass; Crystallization Status of Palm Oil Biodiesel under Low Temperature Environment Mesophilic Anaerobic Digestion of Dairy Manure and Vegetable Waste Using Batch ReactorUsing a Novel FCE Model to Evaluate the Industry Competitiveness of Biomass Power Generation; Chapter 3: Development and Utilization of Wind Energy; Identifying the Attitude of Environmental Practitioners toward Policy for Promoting Wind Energy in Taiwan Using Analytical Hierarchy Process; Short-Term Forecast and Error Analysis of Wind Power Based on Weight Factors; The Study on Turbulence Intensity Based on CFD in the Wind Farm The Topological Structure Analysis of Novel Cascaded Wind Power Generation System

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Advances in Energy and Environmental Science (ICAEES 2014), June 21-22, 2014, Guangzhou, China. The 297 papers are grouped as follows: Chapter 1: Development and Utilization of Solar Energy, Chapter 2: Development and Utilization of Biomass Energy, Chapter 3: Development and Utilization of Wind Energy, Chapter 4: Nuclear Energy and Other Energy, Chapter 5: Energy Chemical Engineering and Fuel Cell, Chapter 6: New Energy Vehicles and Electric Vehicles, Chapter 7: Power System, Automation and Control, Chap

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