

1. Record Nr.	UNINA990008544000403321
Autore	Leonardi, Silvio
Titolo	Note introduttive e proposte di ricerca sul problema dei trasporti nell'area comunale e metropolitana milanese / Silvio Leonardi, Roberto Cagliozzi
Pubbl/distr/stampa	Milano : s.n., 1962
Descrizione fisica	46 p. ; 28 cm
Collana	Progetto sui trasporti nell'area metropolitana
Altri autori (Persone)	Cagliozzi, Roberto
Locazione	FARBC DINTR
Collocazione	URB.LE B 1106 T/19
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In testa al front.: Istituto lombardo per gli studi economici e sociali, ILSES

## 2. Record Nr.

UNINA9910787078403321

## 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  
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## 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 MicrocontrollerExergy 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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