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The Influence and Countermeasures Research of Large-Scale Distributed Photovoltaic Access to the Distribution Network; Design of a Solar Assisted Absorption Refrigeration System; Optimization Design and Simulation Study of a CPC for LFR System; Research on the Maximum Penetration Level of Grid-Connected PV in Distribution Network Taking into Account On-Load-Changing of the Transformer Research Status and Prospect of Dish-Stirling SystemSimulation of the Bombardment to the Intrinsic Thin Layer of a-Si:H by Plasmas in the Hit Solar Cell; Technologies to Reduce Optical Losses of Silicon Solar Cells; Harvesting Maximum Power from Mismatch Module of PV System Using PO Buck-Boost Converter; Design and Development of a Portable Solar Photovoltaic Mobile Emergency Power Supply; Design of the Solar Energy-Heated Biogas Digester; Experimental Investigations of Transient and Daily Thermal Performances for a Balcony-Flat-Plate Solar Water Heater
Experimental Studies on the Thermal Performance of the Balcony-Type Flat-Plate Solar Water HeaterExperimental Studies on the Thermal Performance of the Wall-Type All-Glass Evacuated Tube Solar Water Heater; Mathematical Analysis on a Special Adsorption Refrigeration System Suitable for Solar Energy System; The Design of the Solar Panels Automatic Tracking Controller; The Photovoltaic Efficiency of the Dye-Sensitized Solar Cells at Different Annealing Temperatures; Experimental Study on Using Solar to Improve Producing Methane in Northeast China
The Heating Coefficient Experimental Analysis of Solar Water-Assisted Low Temperature Air Source Heat Pump System

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection (ICEEP 2014), April 26-28, 2014, Xi'an, China. The 330 papers are grouped as follows: Chapter 1: Development and Use of Solar Energy, Chapter 2: Development and Utilization of Biomass Energy, Chapter 3: Development and Utilization of Wind Energy, Chapter 4: Nuclear Energy Engineering, Chapter 5: Other Energies and Its Utilization, Chapter 6: Batteries and Energy Storage Technology, Chapter 7: Energy-Saving Technology and Energy Conversation, Chapter 8: Hydrogen and Fuel Ce