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Nota di contenuto	Advances in Energy Materials and Environment Engineering; Preface and Conference Organization; Table of Contents; Chapter 1: Engineering Decisions in Area of Renewable Energy; Biomass Molding Technology and the Research State of Biomass Binder; Comparative Study of Various Models to Estimate Hourly Solar Irradiance: Application for Performance Analysis of a Renewable Energy DC-Micro Grid; Design of Single Axis Tracking Solar Photovoltaic Tracking System; Development of Software for Analyzing of Solar Irradiance and Sizing of Stand-Alone PV Power Systems Development of Software of Climate Analysis for Generation the Energy with Wind TurbineMultiobjective Evolutionary Algorithms MOEA to Solve Task Allocation Problems in Multiagent Systems for DC MicroGrid; Passive Control for a 2D Wind Turbine Blade with a Locally Flexible Structure at Low Reynolds Number; Research on the Single Phase Grid-

Connected Inverter System of Small Wind Power; Study on Solar Energy for Pre-Cooling Technology of Fruit and Vegetable; Study on the Liquefaction Technology of Corn Stalk-Biomass Materials; Wind Farm Collector System Research
Wind Turbine Failure Rate Calculation Method Considering Multi-Factor InfluencesChapter 2: Engineering Decisions in Area of Traditional Power Engineering; A New Fuzzy Petri Net Model for Power Grid Fault Diagnosis; Analysis of 50Hz Electric Fields Generated by Multi-Circuit Transmission Lines on the Same Tower; Application of Grey Relation Analysis Method in Component-Based Load Modeling; Disaster Resistance and Emergency Evaluation of Urban Power Grid; Research on Distribution Transformer Condition Assessment Method Based on Core State Variable Set
Research on the Impact of Power Grid Harmonic on Energy Meter and its Solution MethodsStudy on the Lightning Current Amplitude Distribution in Shenzhen Power Grid; Time-Frequency Analysis Method in the Transient Power Quality Disturbance Analysis Application; Overview of Impacts of Distribution Generations and Micro Grids on Active Distribution Network Operation; Chapter 3: Energy Materials and Technology; A Study on the Luminescent Properties and Energy Transfer of Na2BaMgP2O8:Tb3+, Eu3+ Phosphor; Corrosion Behavior of Conducting Polymer PANI in Simulating PEMFC Conditions
Effects of Sb or Ba Addition on the Piezoelectric Properties of PZTPreparation of Carbon Monoliths by a Simple Polymer Blend Technique; Preparation of PNN-PZT Ceramics and Piezoelectric Characteristics; Study of Substrate for the Zinc Electrode in Acid Zn-PbO2 Flow Battery; Template-Free Hydrothermal Synthesis of Octahedral Fe3O4 Microcrystals and its Magnetic Property; The Research on the (1-x) PZT-x PMN Piezoelectric Materials; Study of the Affecting Factors on the Desulfurization Activities of Co-Doped TiO2 Photocatalyst
Synthese, Crystal Structure of O-P-O Bridged MnIII(Schiff Base) Phosphinate Complexe

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Conference on Energy Materials and Environment Engineering (ICEMEE 2014), October 25-26, 2014, Guangzhou, China. The 142 papers are grouped as follows: Chapter 1: Engineering Decisions in Area of Renewable Energy; Chapter 2: Engineering Decisions in Area of Traditional Power Engineering; Chapter 3: Energy Materials and Technology; Chapter 4: Energy-Saving Technology; Chapter 5: Materials and Technologies of Environmental Engineering, Development and Protection of Bioresources; Chapter 6: Waste Disposal and Pollution Contr