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Nota di contenuto	Reliability Importance Measures of Components for Stand-alone Hybrid Renewable Energy Microgrid -- Statistical Analyses Of Wind and Solar Energy Resources for the Development of Hybrid Microgrid -- Entering the Bio Based Economy - Verification of Demand on Education in the Field Of Green Economy -- Hybrid Power System Supply for Electric Vehicle -- Temporal Assessment of Wind Energy Resource in "Adrar" (South of Algeria); Calculation and Modeling of Wind Turbine Noise -- Photo-Electro-Thermal Characteristics of Photovoltaic Panels -- MLP/Levenberg-Marquardt for Prediction Solar Radiation: A Case Study Bejaia City -- A Proposal for Intermediate Band Solar Cells with Optimized Transition Energy in Cr Doped 3C-SiC -- Sand Effect on

Sommario/riassunto

The proceedings of the 2nd International Congress on Energy Efficiency and Energy Related Materials include 73 peer-reviewed technical papers, submitted by leading academic and research institutions from over 20 countries and representing some of the most cutting-edge research available. The 73 papers are grouped into the following sections: - General Issues - Wind Energy - Solar Energy - Nuclear Energy - Biofuels and Bioenergy - Fossil Energy - Hydropower - Energy Storage, Conservation and Efficiency - Environmental Issues - Carbon Capture and Storage - Bio-Assessment and Toxicology - Air Pollution from Mobile and Stationary Sources - Transport of Air Pollutants - Environmentally Friendly Construction and Development - Energy Management Systems - Materials for Sustainable Energy - Materials for Renewable Energy Storage and Conversion - Fuel Cells - Hydrogen Storage - Photovoltaics and Solar Cells - Hydrogen Production and Fuel Generation from Renewables (Catalysis) - Carbon Dioxide Sequestration and Conversion - Energy-Saving Materials - Thermoelectrics - Saving Energy in Buildings - Modeling and Theoretical Aspects in Energy-Related Materials.