

The results show that the power generation efficiency of PV panels is mainly affected by their installation locations and meteorological variations [27], [28]. Therefore, the ...

176 polish maritime research, no s22018 polish maritime research special issue 2018 s2 (98) 2018 vol. 25; pp. 176-181 10.2478/pomr-2018-0090 application of solar photovoltaic power ...

This wind-assisted propulsion (WAP) system also include marine solar power and is designed so that the practical limitations of using rigid sails and solar panels on ships are overcome. A ship fitted with Aquarius MRE such as a passenger ...

A novel approach is applied to the placing of the solar panels to the Ro-Ro type ship. For this, a durable structure is planned on the upper side of the trailers on the upper deck ...

A new energy ship is being developed to address energy shortages and greenhouse gas emissions. New energy ships feature low operational costs and zero emissions. This study discusses the characteristics ...

the sustainability of a ship's power supply and protecting the environment [8]. For example, [9] mentioned that the EU initiated a research project to adopt photovoltaic (PV) generation for ...

The introduction of distributed solar photovoltaic (PV) power generation system in ship power system is an important method to effectively solve marine pollution. Taking the large-scale ...

the solar photovoltaic power generation, and the relationship among the power, voltage, and current of the solar photovoltaic power generation unit photovoltaic cell is nonlinear (Wu, ...

A method for predicting annual power generation by surveying the PV power generation of a real hybrid solar ship on a particular voyage has been proposed [8]. However, ...

Facing with the problems of energy-saving emission reduction and marine pollution, the shipping industry have invested a great interest in developing "Green Ship" by utilizing the solar energy ...

Aiming at the application of solar photovoltaic system in ships, based on the introduction of the principle and mode of use of solar photovoltaic system, the application characteristics of solar ...

Abstract: Solar photovoltaic (PV) power generation technology applied on ship is a new research direction to reduce carbon dioxide emissions and improve the energy efficiency. Position and ...

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