

MF AMPERE-the world's first all-electric car ferry [50]. The ship's delivery was in October 2014, and it entered service in May 2015. The ferry operates at a 5.7 km distance in ...

Temperature affects the battery aging and stability, bringing about significant effects on the electric vehicle's economy, reliability, and safety. Therefore, it is necessary to ...

minimums principle; battery degradation 1. Introduction The development of hybrid energy storage systems that can improve the power and mileage of electric vehicles has been attracting more ...

Request PDF | On Feb 1, 2014, Cong Hou and others published Approximate Pontryagin's minimum principle applied to the energy management of plug-in hybrid electric vehicles | Find, ...

Battery aging can greatly reduce the energy efficiency of plug-in hybrid electric vehicles (PHEVs). This paper presents a novel real-time energy management strategy (EMS) ...

AB - Provides an overview on the design of energy storage systems for plug-in hybrid electric vehicles. KW - plug-in hybrid electric vehicles (PHEV) KW - vehicle energy storage system ...

In an EV powertrain, the battery pack is aided by various energy storage systems (ESS) such as supercapacitors to produce instant heavy torque requirements or for energy storage during regenerative braking, maximising ...

When developing an energy management strategy (EMS) including a battery aging model for plug-in hybrid electric vehicles, the trade-off between the energy consumption ...

The energy storage system is a lithium iron phosphate battery, and the battery pack contains 168 cells with a nominal capacity of 120 Ah and total voltage of 537.6 V. An ...

1 ??· Balcony energy storage system, as the name suggests, is to add a battery system between PV modules and micro inverters. The purpose is to maximize the power generation of ...

The Pontryagin's minimum principle is utilized in this paper to determine the best solution of component sizing and energy management strategy for a plug-in hybrid electric ...

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