

Hybrid energy storage systems (HESSs) have become more and more important in hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and all-electric ...

Abstract Braking energy recovery (BER) notably extends the range of electric vehicles (EVs), yet the high power it generates can diminish battery life. This paper proposes ...

This paper proposes an adaptive power allocation strategy using artificial potential field with a compensator for hybrid energy storage systems in electric vehicles. In the power ...

The electric vehicle (EV) technology addresses the issue of the reduction of carbon and greenhouse gas emissions. The concept of EVs focuses on the utilization of ...

Energy storage is important for electrification of transportation and for high renewable energy utilization, but there is still considerable debate about how much storage ...

This paper proposes a systematic approach to configure the hybrid energy storage system and quantifies the battery degradation for electric vehicles when using ...

In this manuscript, a hybrid technique is proposed for the energy management (EM) of hybrid energy storage systems (HESS) in electric vehicles (EVs). ...

Energy storage management is essential for increasing the range and efficiency of electric vehicles (EVs), to increase their lifetime and to reduce their energy demands.

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Energy management strategy is one of the main challenges in the development of fuel cell electric vehicles equipped with various energy storage systems. The energy ...

This paper utilizes the dynamic programming (DP) approach to deal with the integrated optimization problem for deriving the best configuration and energy split strategies of ...

The ability of electric vehicles to augment grid stability is another critical aspect of their energy storage functions. As renewable energy sources ...

Fast charging is a practical way for electric vehicles (EVs) to extend the driving range under current

circumstance. The impact of high-power charging load on power grid ...

As electric vehicle (EV) batteries degrade to 80 % of their full capacity, they become unsuitable for electric vehicle propulsion but remain viable for energy storage ...

This article delivers a comprehensive overview of electric vehicle architectures, energy storage systems, and motor traction power. Subsequently, it emphasizes different ...

This study proposes the use and management of hybrid storage systems to power hybrid electric vehicles with the aim of reducing the negative effects of high current ...

Bidirectional electric vehicles (EV) employed as mobile battery storage can add resilience benefits and demand-response capabilities to a site's building ...

The electric energy stored in the battery systems and other storage systems is used to operate the electrical motor and accessories, as well as basic systems of the vehicle to ...

In order to provide long distance endurance and ensure the minimization of a cost function for electric vehicles, a new hybrid energy storage system for electric vehicle is ...

The effective integration of electric vehicles (EVs) with grid and energy-storage systems (ESSs) is an important undertaking that speaks to new technology and specific ...

Existing energy storage system is difficult to balance the energy distribution and dynamic response efficiency issues of lithium-ion batteries and supercapacitor, resulting in low ...

This paper provides a review of energy systems for light-duty vehicles and highlights the main characteristics of electric and hybrid vehicles based on power train ...

Energy storage is one of the hot points of research in electrical power engineering as it is essential in power systems. It can improve power system stability, shorten energy ...

18 · The integration of renewable energy systems and electrified transportation requires advanced energy storage solutions capable of providing both high energy density and fast ...

Energy storage systems, especially lithium-ion batteries have gained significant attention and interest due to their potential in storing electrical energy and environmental ...

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