

Therefore, the extended-range electric vehicle (EREV) is viewed as a promising solution which has long cruising range and high fuel efficiency [1]. An EREV has a range ...

The system includes a first energy system, a range extender, and a controller. The range extender has a second energy system, first and second converters, and a bypass. ...

A system comprises a first energy system, a range extender, and a controller. The range extender has a second energy system, first and second converters, and a by-pass. The first converter is ...

Therefore, the development and utilization of renewable energy and energy storage technology will inevitably play a vital role in the future development (Xu et al., 2021). ...

Catton and coworkers [12] modelled several vehicles with range extenders, including one with a Zinc-air battery pack range extender. The vehicle outperformed a regular ...

Electric buses are usually designed with various energy management features to overcome the limited cruising range problem. This paper reveals the impact of different ...

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Catton and coworkers [12] modelled several vehicles with range extenders, including one with a Zinc-air battery pack range extender. The vehicle outperformed a regular battery electric ...

The application of a range-extender system in mining trucks can significantly extend mileage and enhance performance. In the context of the global promotion of renewable ...

With the increasing intelligence and networking of new energy vehicles, the constraints and optimization objectives of energy management strategies are more diversified, ...

Operating characteristics of a linear range extender with different energy ... In the stable operating stage, the three-phase linear generator of the system outputs electric energy continuously, and ...

Industry and researchers are investigating both battery electric vehicles (BEVs) and fuel cell hybrid vehicles (FCHVs) for the future of sustainable passenger vehicle technology. While ...

Maximizing Driving Range for Fuel Cell Range Extender Vehicles with Fixed Energy Storage Costs by

Range extender energy storage

Jingting Dong A thesis presented to McMaster University in partial fulfillment of the ...

This paper presents the strategy design, development, and detailed simulation of an Energy Management System (EMS) for a range extender energy storage microgrid project. Initially, a ...

When the on-board rechargeable energy storage system cannot meet the requirements of driving range, the on-board auxiliary power unit (APU) is turned on to provide ...

This article first proposes the concept of a fuel cell range extender vehicle (FCREV) that uses whole-day driving prediction (WDDP) control, which uses driver destination ...

However, range extenders can recover energy by proposing the various configurations and systems of extended-range electric vehicles (EREV). Many ...

Therefore, the energy storage variable flow system based on the range extender configuration can prevent impact on a power battery, and simultaneously can enable the range extender to work ...

Range extended electric vehicles (REEVs) offer a solution to the limited range of pure electric vehicles by incorporating an additional energy ...

Its range-extender hydrogen powertrain would mitigate driver's range anxiety phenomena (one of the main barriers for electric vehicle commercialization). The most relevant ...

The energy storage of a commercial plug-in BEV with an ICE range extender is here analysed covering UDDS, Hwy and US06 cycles during ...

Zn-air batteries can work as a range extender because they possess a high specific energy and a good resistance to degradation from ...

The energy storage system further comprises a controller configured to control the first energy storage system and the range extender to work in at least one of a normal ...

In this paper, hybrid energy storage system (HESS) is introduced into EREVs, and two energy management strategies based on HESS are proposed to reduce fuel ...

The key function of the range extender is to increase the vehicle's range. Range autonomy is one of the main barriers for the commercial success of electric vehicles, and extending the vehicle's ...

Therefore, this study proposes a multi-objective predictive energy management strategy (MPC-NVH-Rapid DP) that can find a balance between the range extender fuel ...

Range extender energy storage

This paper mainly explores the latest applications of various energy storage technologies for EREV, such as battery, ultra-capacitor (UC), flywheel, fuel cell, solar and hybrid power source ...

Utilize carbon neutral fuels in a high efficiency conversion device to provide long flight range (effective delivered specific energy $EE = EP^*$) chemical energy converted to electric power ...

However, limits to energy storage technologies result in BEVs not being able to provide a satisfactory driving range to consumers [3]. Under this circumstance, extended range ...

Designed for full-size, body-on-frame trucks and SUVs, STLA Frame is versatile: supports internal combustion, hybrid, hydrogen, battery ...

To address these limitations, a hybrid energy storage system (HESS) combining Li-ion and supercapacitors (SCs) is proposed as the energy storage unit for the methanol range-extended ...

Industry and researchers are investigating both battery electric vehicles (BEVs) and fuel cell hybrid vehicles (FCHVs) for the future of sustainable passenger vehicle ...

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