

To address the power distribution problem that occurs in hybrid energy storage systems (HESSs) in electric vehicles, a fuzzy control distribution method is proposed in this ...

This paper describes the use of a hybrid energy storage system composed of battery and supercapacitor as power sources and a multi-input bi-directional interleaved DC/DC converter ...

In this article, an electric bus system equipped with a semi-active composite energy storage system is considered as the object of study. Combined with the urban climate status at the area where the vehicle ...

With the miniaturization of a composite energy storage system as the optimization goal, the linear programming simplex method was employed to obtain the optimized masses of Li batteries and...

Liquid hydrogen (LH₂) truck delivery and storage at dispensing sites is likely to play an important role in an emerging H₂ infrastructure. Here, we analyzed the performance ...

In 2022, Ebusco will supply the very first fully-composite, electric buses in the Netherlands. Transdev Nederland has ordered 39 Ebusco 3.0 buses for their city and intercity ...

Combining with a battery to form a composite power supply can effectively make up for the defects of a single energy storage device and extend the service life of the battery. In this ...

Concerning the cryo-compressed storage, Table 1 shows a range of values for both gravimetric and volumetric densities, depending on the storage operating conditions (e.g., ...

The parameter matching of composite energy storage systems will affect the realization of control strategy. In this study, the effective energy and power utilizations of an energy storage source ...

Aiming to overcome the problems of poor power performance and short driving range of traditional pure electric buses, bidirectional DC/DC and super capacitor branches were added to a pure electric bus power supply ...

The current generation of fuel cell electric buses (FCEB) being demonstrated store hydrogen as compressed gas at 350-bar in Type-3 tanks [1], [2]. Typically, these FCEBs ...

Operational trials of battery electric buses (BEBs) have begun on different scales around the world, and lithium-ion (Li-ion) batteries are usually selected as their power source. In this ...

configuration of composite energy storage device is one of the keys to the application of composite energy storage device in ship electric propulsion system. 2.1 Capacity configuration objective ...

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