

Nov 30, 2023 Energy management strategy (EMS) is crucial in the growth of fuel cell (FC) electric vehicles (EVs) with different energy storage systems (ESS). This manuscript proposes ?

Sep 19, 2024 A two-layer coordinated control strategy is proposed to solve the power allocation problem faced by electric?hydrogen hybrid energy ?

3 days ago Recently, multiple new energy storage projects across China have reached important milestones. In Shandong, Xinjiang, Hebei, ?

Jan 24, 2024 Energy Storage Aerospace power systems require high performance energy storage technologies to operate in challenging space and aeronautic environments. In our ?

Jan 1, 2025 This paper addresses a multiobjective energy management approach using a hybrid energy storage system comprising batteries and hydrogen/fuel-cell systems applied to multi ?

Aug 6, 2020 The PEM hydrogen-oxygen regenerative fuel cell system is potentially the highest storage capacity and lowest weight non-nuclear energy storage system for extra-terrestrial ?

Aug 1, 2025 The integration of new energy into the power grid leads to a significant decrease in the inertia and damping characteristics of the current power system. So this paper proposes a ?

Apr 12, 2010 The fuel economy and all-electric range (AER) of hybrid electric vehicles (HEVs) are highly dependent on the onboard energy-storage system (ESS) of the vehicle. Energy ?

Apr 1, 2025 The rapid expansion of renewable energy sources has significantly increased the need for efficient and scalable energy storage solutions. Among the various technologies, ?

Jan 13, 2023 One objective of the on-hand work is the design of a highly-efficient fuel cell system for the storage of electric energy from renewable sources. To achieve this, an experimental ?

Nov 1, 2018 The extent to which hydrogen energy storage costs can be reduced by consolidating electrolyzers and fuel cell stacks in a unitized, reversible fuel cell. The role of ?

May 13, 2014 This paper deals with the problem of controlling a hybrid energy storage system (HESS)

for electric vehicles. The storage system consists of a fuel cell (FC), serving as the ?

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Jan 12, 1998 Regenerative fuel cell (RFC) systems produce power and electrolytically regenerate their reactants using stacks of electrochemical ?

Oct 29, 2019 Since the last two decades, microgrid, as one typical structure in smart grid framework, has been receiving increasing attention in the ?

Mar 26, 2023 Fuel cell systems are similar to other systems for energy storage or generating devices, such as batteries and photovoltaic (PV) cells, in the sense that they can generally be ?

6 days ago However, other near shore and short sea vessels can achieve zero-emission operations by using battery energy storage, marine fuel ?

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