Distributed energy storage vehicle design

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In electrical vehicles (EVs), TES systems enhance battery performance and regulate cabin temperatures, thus improving energy efficiency and extending vehicle range. The ...

Numerical simulations demonstrated that by adopting a bi-level reinforcement learning approach, the proposed algorithm effectively enhances energy exchange between ...

Vehicle-to-grid (V2G) is a smart charging technology that enables electric vehicle (EV) batteries to give back to the power grid. V2G-enabled EVs can act as distributed energy resources (DER) ...

In this paper, a distributed energy storage design within an electric vehicle for smarter mobility applications is introduced.

A multi-level multi-objective strategy for eco-environmental management of electricity market among micro-grids under high penetration of smart homes, plug-in electric ...

The development of new vehicle concepts, amongst others, aims to address current challenges in traffic and environmental protection. The modular vehicle concept.

The accelerating coupling of power distribution networks and transportation networks driven by electric vehicles and distributed energy resources creates intertwined ...

Innovations in energy storage vehicle design are heavily dependent on the integration of smart technologies. The development of connected vehicles, which utilize ...

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