

Energy storage system (ESS) are playing a more important role in renewable energy integration, especially in micro grid system. In this paper, the integrated scheme of energy storage system ...

Choice of hybrid electric vehicles (HEVs) in transportation systems is becoming more prominent for optimized energy consumption. HEVs are attaining tremendous appreciation due to their ...

The primary control goals of most HEV control strategies are optimizing fuel consumption and tailpipe emission without compromising the vehicle performance attributes and the auxiliary source as a supercapacitor SoC. 80 Energy ...

This study proposes a novel control strategy for a hybrid energy storage system (HESS), as a part of the grid-independent hybrid renewable energy system (HRES) which comprises diverse renewable energy resources ...

The proposed control strategy dynamically adjusts the charging threshold voltage via the train real-time power and position data. Through adjusting the charging power of the energy ...

After obtaining a reasonable system structure, we analyze the control strategies of different structure schemes in detail according to three levels: device, single energy storage ...

A battery energy storage system using modular multilevel converter (MMC) as the interfacing converter could have several inherent advantages when compared with battery energy storage ...

In DC microgrid (MG), the hybrid energy storage system (HESS) of battery and supercapacitor (SC) has the important function of buffering power impact, which comes from ...

