High-speed rail traction power supply system energy storage

In order to improve the regenerative braking energy (RBE) utilization, realize peak load shifting and reduce the negative sequence current in high-speed railway

To solve the negative sequence (NS) problem and enhance the regenerative braking energy (RBE) utilisation in an electrified railway, a novel energy storage traction power supply...

In order to effectively improve the power quality and utilize railway regenerative braking energy in high-speed railway traction power supply system, this paper adopts the Modular

To solve the negative sequence (NS) problem and enhance the regenerative braking energy (RBE) utilisation in an electrified railway, a novel

In this paper, a hybrid energy storage system (HESS) composed of supercapacitors and lithium-ion batteries and its optimal configuration method are proposed for the purpose of

This study aims to reduce the energy consumption of the traction power supply systems (TPSSs) within high-speed railways (HSRs).

To achieve the low-carbon target, China is actively promoting the railway energy transition. The traction power supply system, a crucial component of energy conversion of the high

The railways invest substantial effort in connecting railway infrastructure to renewable energy, which helps limit exposure to electricity price fluctuations, as battery trains (and energy storage in general)

On the basis of sorting out the power supply structures of conventional AC and DC modes, this paper first

reviews the characteristics of the existing TPSs, such as weak power supply

This study focuses on capacity optimization of hybrid energy storage systems for recovering regenerative braking energy in high-speed railways with long steep slopes, where

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