

High-speed rail energy-saving and consumption-reducing solar container technology

Improving energy efficiency is an important measure of environmental governance. At present, studies on the impact of high-speed rail on energy efficiency need to be further studied. This ...

This paper has the purpose of: - quantifying and comparing the specific energy consumption of air transport with that of high-speed rail transport; - determining the ranges in which ...

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This leads to the optimization of speed profile strategies. To further reduce energy consumption, this paper proposes a secondary optimization strategy for the energy-saving speed ...

Carbon management holds increasing significance in today's global economy, particularly in the pursuit of sustainable development and carbon neutrality for nations like China. ...

The scientific novelty is represented by the generic analytical models developed for estimating direct energy consumption and CO₂ emission of the three HS rail-based electrically-powered transport ...

This section presents an overview of the means and measures for railway transport energy efficiency improvement, such as those based on hybrid electric powertrain architectures ...

Application of the existing infrastructures of railway stations and available land along rail lines for photovoltaic (PV) electricity generation has the potential to power high-speed bullet trains ...

Rail transit, which includes high-speed railways, subways, light rail, and other urban rail networks, plays an essential role in daily transportation activities. The enclosed tracks of rail ...

Reducing train traction energy consumption in rail transit operation is significant to developing a green and low-carbon economy and reducing operation costs. The rail train operation ...

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The results show that high-speed rail is conducive to reducing total energy consumption and energy consumption intensity through promoting industry agglomeration, industry upgrading and ...

It is essential to explore the effect of high-speed rail on energy efficiency to develop medium and long-term green development plans and realize the "dual-carbon target" in China. We ...

Second, several workable architectures of the novel high-speed railway traction power supply system are presented, and the advantages, challenges, and prospects of respective options ...

High-speed rail systems are at the forefront of innovation in the transportation sector, continually evolving to meet the demands of a fast-paced, interconnected world. From advanced train ...

With the "carbon peaking and carbon neutrality" target direction, China's high-speed railway is developing steadily towards the trend of energy saving. Considering that connecting the ...



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