

The global lithium-ion battery recycling capacity needs to increase by a factor of 50 in the next decade to meet the projected adoption of electric vehicles. During this expansion of recycling capacity, it is unclear which technologies are most appropriate to reduce costs and environmental impacts. Here, we describe the current and future recycling capacity situation ...

Power batteries are the core of new energy vehicles, especially pure electric vehicles. Owing to the rapid development of the new energy vehicle industry in recent years, the power battery industry has also grown at a fast pace (Andwari et al., 2017). Nevertheless, problems exist, such as a sharp drop in corporate profits, lack of core technologies, excess ...

A new energy vehicle decommissioned power battery recycling platform based on the big data technology is constructed and the functional module on this platform is designed and investigated for the functional requirements of users and shared in formation based on big data. This paper focuses on the principal problems in the actual transaction of decommissioned ...

New energy vehicle battery recycling strategy considering carbon emotion from a closed-loop supply chain perspective Rong Guo¹, Yongjun He^{2*}, Xianjun Tian² & Yixin Li³

The rapid development of the new energy vehicle industry is an essential part of reducing CO₂ emissions in the transportation sector and achieving carbon peaking and ...

Subsequently, it is specified that for the sale of new energy vehicles in Shenzhen, the power battery recycling and treatment funds will be especially accrued according to the standard of 20 RMB/kWh. For the required accrual of power battery treatment funds, 50% of the amount determined by the audit is to subsidize enterprises.

China's lithium mines are highly dependant on imports, and the mitigating role of recycling new energy vehicle (NEV) batteries is not yet clear. In this research, a multifactor input GRA-BiLSTM for...

Analysis of Lithium Battery Recycling System of New Energy Vehicles under Low Carbon Background. Zhe Wang¹. Published under licence by IOP Publishing Ltd IOP Conference Series: ... then analyzes the problems of China's new energy vehicle battery recycling system, and finally, puts forward some suggestions based on China's national conditions ...

As the global new energy vehicle (NEV) industry rapidly expands, the disposal and recycling of end-of-life (EOL) power batteries have become imperative. Efficient ...

For example, under the Interim Measures for the Administration of Recycling Traction Batteries of New Energy Vehicles promulgated by the Mainland government, interim provisions on traceability management of traction battery recycling for new energy vehicles have been issued. They have proposed the establishment of an electronic integrated ...

In recent years, new energy vehicles (NEVs) have taken the world by storm. A large number of NEV batteries have been scrapped, and research on NEV battery recycling is ...

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