New energy storage charging pile leakage phenomenon

By introducing a particle swarm optimization algorithm with mutation operators, the model can accurately identify potential faults in charging piles and construct a comprehensive operational status i...

The number of new-energy vehicles is steadily increasing worldwide, and joint refueling and charging stations will be increasingly constructed and developed in China. A CNG leakage at joint stations can lead to superimposed ...

According to the new-energy vehicle charging pile with the waterproof and take-up functions, the power line can be wound around a rotating disc through the take-up mechanism, the phenomena that due to the fact that friction between the power line and the ground is caused, insulation skin is damaged, electric leakage is caused, and electric shock...

The number of new-energy vehicles is steadily increasing worldwide, and joint refueling and charging stations will be increasingly constructed and developed in China. A CNG leakage at joint stations can lead to superimposed consequences, including fire (flash fire, pool fire, jet fire), explosion, and release of toxic and hazardous gases. Based ...

The invention discloses an energy-saving charging pile based on a new energy automobile, which comprises a charging pile main body and a rain shelter sheathing plate, wherein the rain...

Aiming at the problems of insecure user data in electric vehicle charging piles and easy waste of charging pile resources, an electric vehicle charging pile shared charging pile management system based on energy blockchain is proposed. The blockchain has the characteristics of decentralization, smart contracts, and openness and transparency, and uses ...

In this article, a real-time fault prediction method combining cost-sensitive logistic regression (CS-LR) and cost-sensitive support vector machine classification (CS-SVM) is proposed. CS-LR is first used to classify the fault data of smart charging piles, then the CS-SVM is adopted to predict the faults based on the classified data.

Large-scale energy storage technology has garnered increasing attention in recent years as it can stably and effectively support the integration of wind and solar power generation into the power grid [13, 14].Currently, the existing large-scale energy storage technologies include pumped hydro energy storage (PHES), geothermal, hydrogen, and ...

The electrolyte of lithium-ion batteries leaks and reacts directly with the water in the air, leading to increased

self-discharge, the damage of negative material, and lithium deposition during the charging process. In practice, batteries experience different operating conditions, including extended storage and continuous charge-discharge ...

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New energy electric vehicles will become a rational choice to realize the replacement of clean energy in the field of transportation; the advantages of new energy electric vehicles depend on the batteries with high energy storage density and the efficient charging technology. This paper introduces a 120-kW electric vehicle DC charger. The DC charger has ...

One possible explanation for the observed changes in the carbon leakage phenomenon is attributed to a new policy initiated by China"s National Energy Administration (CNEA). In 2014, the CNEA introduced the pilot policy of the new-energy model city (NEMC). The core of the policy is to promote the widespread use of renewable energy and its ...

This paper introduces a high power, high efficiency, wide voltage output, and high power factor DC charging pile for new energy electric vehicles, which can be connected ...

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Moreover, a coupled PV-energy storage-charging station (PV-ES-CS) is a key development target for energy in the future that can effectively combine the advantages of photovoltaic, energy storage and electric vehicle charging piles, and make full use of them . The photovoltaic and energy storage systems in the station are DC power sources, which can be ...

This paper introduces a high power, high efficiency, wide voltage output, and high power factor DC charging pile for new energy electric vehicles, which can be connected in parallel with multiple modular charging units to extend the charging power and thus increase the charging speed. Each charging unit includes Vienna rectifier, DC transformer ...

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