
This paper aims to design an intelligent street lighting controller based on solar energy and LED. The controller can work in daytime mode, dusk ...

In this paper, the photoelectric method is used to track the position of the sun, the control process is modeled and simulated in the system. The system is optimally controlled by adding a ...

Its unique light-chasing algorithm enables the solar panel to continuously track the light source from sunrise to sunset, thus significantly improving the charging efficiency.

This research paper presents the development of an autonomous photovoltaic street lighting system featuring intelligent control through a smart relay. The system integrates ...

Intelligent spot-chasing solar street light, built-in sunlight tracking system, high-efficiency monocrystalline silicon solar panel, equipped with automatic sensing system and monitoring ...

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By combining solar energy with automatic light chasing technology, a solar dual-axis automatic light chasing charging system was designed based on an STM32F103C8T6 single-chip ...

IoT integration allows for continuous monitoring and remote fault detection, lowering maintenance costs and downtime. Overall, this initiative seeks to modernize street ...

This paper aims to design an intelligent street lighting controller based on solar energy and LED. The controller can work in daytime mode, dusk mode based on detection of light intensity and ...

Intelligent spot-chasing solar street light, built-in sunlight tracking system, high-efficiency monocrystalline silicon solar panel, equipped with ...

This design utilizes a light-dependent resistor (LDR) and an STM32 microcontroller to work together for real-time solar tracking, optimizing solar energy captur

The purpose of this paper is to design the intelligent street light system. In this system the solar cell receive energy to switch on the light, the solar cells operate on the photo-electric energy ...

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