



Solar Agriculture Automatic Irrigation System

This research developed a comprehensive IoT-based smart irrigation control system to optimize water and energy management in agricultural greenhouses while enhancing crop productivity.

Efficient water management is crucial in modern agriculture, especially in regions facing water scarcity. Traditional irrigation systems often result in water wastage, which challenges ...

Therefore, the study aims to advance sustainable urban agriculture by designing and evaluating a solar-powered smart rooftop irrigation system for peppermint cultivation. The system...

Abstract: This research investigates the design and implementation of a solar-powered automatic soil irrigation system. The system aims to optimize water usage and enhance agricultural productivity by ...

Beyond enhancing irrigation precision and water conservation, AI-integrated solar irrigation systems have demonstrated notable impacts on agricultural productivity and environmental ...

This article presents a system that can regulate irrigation based on demand using Arduino Uno, a solar-powered water pump, and an autonomous water flow control system with a moisture ...

Abstract Efficient water management is a critical factor in modern agriculture. This study presents a smart drip irrigation system enhanced with Internet of Things (IoT) technologies and arti- ...

By using solar energy to power irrigation pumps, these systems can reduce greenhouse gas emissions by up to 98% compared to diesel-based alternatives. This shift supports global ...

The spread of solar-based groundwater pumping for irrigation (SGPI) is reshaping the trade and agricultural policy of arid regions. Promoted as a clean, decentralized alternative to diesel- and ...

One of the most promising advancements in agricultural technology is the solar-powered irrigation system. This innovative system harnesses the power of the sun to pump water for irrigation, ...



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