Title: Smart sprinkler system solar energy
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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...

The design of an IoT based solar energy system for smart irrigation is essential for regions around the world, which face water scarcity and power shortage. Thus, such a system is designed in ...

The scope of this research encompasses greenhouse-based smart irrigation systems for small to medium-scale agricultural operations, with a specific focus on IoT sensor integration, AI ...

Solar energy application is one of digital farming implementation for agriculture and is expected to ease the farmers" workload. This paper presents the concept and design of a solar-powered sprinkler ...

This paper proposes a design and implementation methodology of a smart solar irrigation system using loT and ANN algorithms. The system includes solar panels, a water pump, a ...

Smart irrigation control mechanisms have developed as a feasible solution to these challenges. These systems employ innovative methods and automation to improve irrigation ...

This study demonstrates the optimal design of a photovoltaic (PV) drip irrigation system, emphasizing key considerations for tailoring the system to a specific geographic location. The design involves ...

The project aims to develop a sustainable smart irrigation system (SIS) for the indoor plant irrigation by integrating photovoltaic (PV), internet of things (IoT), and rainwater harvesting ...

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