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Title: Intelligent Photovoltaic Container for Agricultural Irrigation

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In Bangladesh, agricultural yields heavily depend on groundwater and traditional irrigation methods, creating dire water scarcity problems and energy inefficiency. The ...

Therefore, this study proposes a novel method for collecting rainwater from the surfaces of photovoltaic panels integrated with an irrigation system. For the case of validation ...

This study explores the design and adaptation of a shipping container into a portable irrigation control station for agricultural operations. The project leverages the ...

Smart irrigation system (SIS) offers various benefits such as enhanced air quality and visual appeal. It relies on advanced technologies ...

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

This research focuses on developing an intelligent irrigation solution for agricultural systems utilising solar photovoltaic-thermal (PVT) energy applications. This solution integrates ...

Smart irrigation system (SIS) offers various benefits such as enhanced air quality and visual appeal. It relies on advanced technologies like sensors and timers to ensure ...

By integrating sensors, actuators, and intelligent algorithms, smart irrigation control systems enable precise and timely water delivery based on the actual needs of crops. Sensor ...

Innovations in PV-powered irrigation are paving the way for a more sustainable and efficient agricultural



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sector. By harnessing the power of the sun and integrating smart farming ...

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