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Here, we assess vegetation conditions within these facilities by integrating nationwide field surveys in China with satellite observations, using high-resolution unmanned aerial vehicle...

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The rapid integration of photovoltaic (PV) systems into modern power distribution networks poses significant operational challenges, particularly with regard to

This paper comprehensively reviews renewable power systems for unmanned aerial vehicles (UAVs), including batteries, fuel cells, solar photovoltaic cells, and hybrid configurations, ...

To enhance their efficiency and duration, UAVs typically employ a hybrid power system. This system integrates diverse energy sources, such as fuel cells, batteries, solar cells, and ...

This paper aims to design and fabricate a prototype of a solar-powered, fixed-wing, Unmanned Aerial Vehicle (UAV) with energy harvesting capabilities that can inspect and monitor ...

This article proposes a cyclic shift (CS) reconfiguration scheme and a two-stage maximum power point tracking (TS-MPPT) method to enhance the energy supply of solar-powered unmanned ...

There is a growing interest in using unmanned aerial vehicles (UAVs) in the most diverse application areas from agriculture to remote sensing, that determine the need to project and define ...

This study aims to enhance the solar energy harvesting capabilities of Unmanned Aerial Vehicles (UAVs), with a focus on integrating solar power to improve overall energy harvesting ...

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