

Arid sandy areas have great potential for producing solar power, so many solar photovoltaic (PV) systems have been constructed in desert regions. Hexi corridor, a typical and broadly representative desert ecosystem ...

Photovoltaic panels shade the land while blocking some areas from rainfall and dousing others with heavy runoff. This changes the growing conditions for plants, with implications for other ...

The need for energy and the increasing importance of climate change mitigation are leading to a conversion from conventional to renewable energy sources. Solar photovoltaic ...

Due to increasing involvement in desert-related PV projects and having previously lived in the Persian Gulf region and experienced the particularly challenging climatic conditions, the author found the time ripe for a series of articles ...

around PV stations in desert regions is still limited [19, 25]. Thus, the objectives of the present research were (1) to characterize the spatial heterogeneity of vegetation and soil in and ...

Solar photovoltaic (PV) is one of the most environmental-friendly and promising resources for achieving carbon peak and neutrality targets. Despite their ecological fragility, ...

Large-scale photovoltaic solar farms envisioned over the Sahara desert can meet the world's energy demand while increasing regional rainfall and vegetation cover. However, adverse remote effects resulting from ...

The PV panel's conversion efficiency is related to its temperature. Meanwhile, the average temperature in the PV_land and PV_lake sites is 18.34 °C, and 13.83 °C all year, ...

Notably, Solar panel technology transfers a portion of absorbed solar radiation into electricity, effectively redistributing energy from the sun Zhou, M.; Wang, X. Influence ...

Liu, Y. et al. Solar photovoltaic panels significantly promote vegetation recovery by modifying the soil surface microhabitats in an arid sandy ecosystem. Land Degrad. Dev. 30 ...

Recent pilot-scale studies have demonstrated the effect of vegetation on PV panel cooling, however the actual benefits to electricity generation and irrigation requirements ...

Desert plants tend to recolonize very slowly after a disturbance, taking anywhere from decades [6] to centuries [7][8][9], ... The solar panel arrays were separated at either 8 m ...

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