

moisture content. Under PV panels, the soil moisture is greater, and the water-use efficiency is significantly improved (the efficiency increased by 328%) (Adeh et al. 2018). Similarly, the soil ...

Meanwhile, as soil structure is important for soil functions (Rabot et al., 2018), rain drop interception of PV panels, which can lead to prevention of soil surface sealing and ...

Today, Schultz and the Vegetation Management team have more than 75,000 project acres under vegetation and soil management plans that include planting naturalized species, attracting ...

The photovoltaic industry is developing rapidly because of its renewable energy and other advantages. However, the installation of this infrastructure may affect soil, vegetation, and carbon ...

When the photovoltaic panels are cleaned, it increases the water content of the shallow soil and provides additional moisture for vegetation growth under photovoltaic panels; ...

More field investigations are needed to supplement knowledge of the growth state and drivers of vegetation in areas which shaded by PV panels. In this work, relative changes in ...

The soil properties exhibited varying trends along the light gradient under two vegetation restoration patterns, as shown in Supplementary Table S1. TC, WSOC, pH, EC, AK, and AP were not notably different ( $p > 0.05$ ); ...

Google high-resolution images of the example region depict vegetation changes in different periods (b): before the PV plant deployment (2013), the site underwent leveling and ...

A total of 77 taxa of vascular plants were identified. Based on the bioindication of vegetation, it can be concluded that there are changes in the conditions between sites under photovoltaic ...

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 ...

outside the IT zone and outside the SPP ( $P < 0.05$ ). The AT under the panel was 1.67 times lower than above during the plant growing season. The microhabitat index has a high correlation ...

nutrient content of 0-5cm under four vegetation restoration measures and within the mechanical sand barriers by laser diffraction techniques and chemical experiments. The results showed ...

Soil available nutrient content under different vegetation restoration measures in photovoltaic power stations. Figure 5 shows that the content of available nutrients between the ...

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