
Hence, we conducted a systematic map of existing evidence aiming at answering the following question: what evidence exists regarding the effects of PV installations on wild terrestrial ...

Here, we evaluated the effects of SPP construction on carbon emissions, edaphic variables, microclimatic factors and vegetation ...

PV panels have been linked to substantial impacts on species and ecosystems, the first and most obvious one being the degradation of natural habitats but they may also lead to mortality of ...

In this study, we conducted a meta-analysis to investigate the soil, climate, and biological effects of PVPPs construction, as well as changes in ecosystem CO2 fluxes. Our analysis ...

We show how a fundamental understanding of the patterns and controls of plant carbon uptake can improve solar arrays. By co-prioritizing the ...

To phase out fossil fuels and reach a carbon-neutral future, solar energy and notably photovoltaic (PV) installations are being rapidly scaled up. Unlike other types of renewable energies such as wind and ...

Ecovoltaic approaches are designed and managed to co-prioritize ecosystem services with energy generation, and thus could be targeted for lands that might benefit from the presence of ...

Solar panels represent a monumental shift in energy production, moving away from the detrimental practices of fossil fuel reliance. The benefits extend far beyond just energy generation, ...

However, alternative approaches to solar development that colocate agriculture and PV energy (i.e., agrivoltaics) or intentionally coprioritize PV energy and ecosystem services (i.e., ecovoltaics; see ref. ...