

What is a rooftop photovoltaic (PV) system?

Hot topics and research evolution are explored by keyword and keyword co-occurrence analysis. Rooftop photovoltaic (PV) system, as part of the renewable energy development strategy to guarantee energy security and reduce greenhouse gas emissions in urban areas, has received a lot of attention during the last decade.

Are rooftop photovoltaic systems suitable for building roofs?

Their incorporation into building roofs remains hampered by the inherent optical and thermal properties of commercial solar cells, as well as by esthetic, economic, and social constraints. This study reviews research publications on rooftop photovoltaic systems from building to city scale.

How bibliometric information is provided about rooftop PV research?

The current study provides descriptive bibliometric information about rooftop PV research based on 595 articles retrieved from the WoS database. The main findings of this paper are summarized as follows. This study revealed that there was an increased level of activities in the rooftop PV research field especially since 2015.

Can rooftop PV research be used as a strategic review?

Furthermore, based on the literature review, a detailed analysis of the main topics was provided for a better understanding of the current research trends and opportunities. This study can be served as a strategic review of the rooftop PV field to help relevant researchers carry out in-depth research in the future.

Rooftop photovoltaic systems are often seen as a niche solution ...

Rooftop photovoltaic (PV) system, as part of the renewable energy development strategy to guarantee energy security and reduce greenhouse gas emissions in urban areas, has received a lot of attention ...

This paper presents an assessment of the potential of solar rooftops, and an analysis of the feasibility of investing in rooftop photovoltaic systems for the buildings at Lampung Rajabhat ...

Abstract Solar rooftop systems are pivotal in advancing renewable energy solutions, offering environmental and economic benefits. This research article reviews the technological ...

Rooftop photovoltaic systems are often seen as a niche solution for mitigation but could offer large-scale opportunities. Using multi-source geospatial data and artificial intelligence ...

This study reviews research publications on rooftop photovoltaic systems from building to city scale. Studies on power generation potential and overall carbon emission reduction of rooftop ...

This study conducts a comprehensive bibliometric analysis of 333 articles published between 1993 and 2023 in the Web of Science (WOS) core database to provide a global overview of ...

Rooftop photovoltaic bracket research topics

The evaluation shows that China's rooftop PV generation potential reaches 6575 TWh yr⁻¹, mainly concentrated in the eastern China, and that at least 90% grid flexibility and 8-12 h of storage capacity ...

The findings validate that the implementation of rooftop photovoltaic systems in public sector buildings is both technically and economically feasible, with a combination of tailored modeling ...

The key knowledge base and the main hot topics of the rooftop PV research field were identified from co-citation analysis and keywords co-occurrence network. Furthermore, based on the ...

Web: <https://anaelenaartistapmu.es>