

Title: Wang Shi Photovoltaic Panel

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Li, R., Shi, Y., Wu, M., Hong, S., & Wang, P. (2020). Photovoltaic panel cooling by atmospheric water sorption-evaporation cycle. *Nature Sustainability*, 3 (8), 636-643. doi:10.1038/s41893-020-0535-4

Abstract More than 600 gigawatts (GW) photovoltaic (PV) panels are currently installed worldwide, with the predicted total capacity increasing very rapidly every year. One essential issue in PV conversion ...

As the photovoltaic (PV) industry continues to evolve, advancements in Wang Shi steps on photovoltaic panels have become critical to optimizing the utilization of renewable energy sources.

This paper presents a novel passive cooling approach for silicon-based photovoltaic panels, employing night-time hygroscopic hydrogel adsorption, daytime desorption, and subsequent ...

In this report we demonstrate a new and versatile photo-voltaic panel cooling strategy that employs a sorption-based atmospheric water harvester as an effective cooling component.

We herein propose a composite backplate for the passive cooling of PV panels, which consists of hygroscopic hydrogels with an adsorption-evaporative cooling effect and protective ...

His research focuses on the solar energy utilization, efficient dehumidification, atmospheric water harvesting (AWH), and analysis of carbon neutrality strategy. He has conducted a ...

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