

Accurate and detailed solar radiation data play a crucial role in the simulation ...

Accurate and detailed solar radiation data play a crucial role in the simulation of building thermal and photovoltaic systems. However, developing a highly precise and ...

In this paper, we propose a functional regression model to predict global solar radiation data using meteorological variables so as to improve prediction accuracy.

The observed daily solar radiation and meteorological data from 97 stations during 1993-2016 were used for the analysis, and the results indicated that the concave ...

When performing solar radiation analysis, the following aspects need to be set: (1) Urban geographic information, including latitude, longitude, and elevation. (2) Hourly solar ...

Using the radiation data corresponding to 924 sites throughout the world we conducted a detailed statistical analysis of 101 different solar radiation models that are ...

Delivered GIS data include eight parameters in the form of a raster data layers, providing the information on solar resource, photovoltaic power potential, air temperature and ...

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the ...

The majority of the energy required for human survival is derived either directly or indirectly from solar radiation, thus it is important to investigate the periodic fluctuations in ...

Evaluating the effect of particulate matter pollution on estimation of daily global ...

Diffuse solar irradiance (DSR) is a critical component of solar radiation, substantially influenced by atmospheric conditions such as aerosols and cloud cover ...

Evaluating the effect of particulate matter pollution on estimation of daily global solar radiation using artificial neural network modeling based on meteorological data. Journal ...

With the population grows and urbanization accelerates, energy has emerged as a crucial factor influencing both the global economy and the environment [1].As a safe, cost ...

# Global solar radiation data analysis

Complete and accurate global solar radiation ( $R_s$ ) data at a specific region are crucial for regional climate assessment and crop growth modeling. The objective of this paper was to evaluate the ...

This paper presents a compilation of 165 global solar radiation models that is representative of the progress over the last 100 years. The models were classified according ...

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WMO data provide the basis for better understanding the climatology of severe weather and extreme events such as tropical cyclones, El Niño, floods, heat waves, cold waves, droughts ...

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