

The research finds that the increase of extremely low wind speed and solar radiation may have promoted the increase of extreme power shortage events. Since 1980, extremely low wind speed and...

Based on this dataset, this study used the LightGBM model to develop an estimation model of radiation components, which was independently verified in Chinese and global stations, and then the daily...

She creates computational and statistical models to optimize global solar power strategy using big data -- a method she deployed during her graduate days studying for a doctorate at Tsinghua...

New research from Tsinghua University suggests that these energies can make it hard for nuclear power to remain competitive - but because solar and wind power both fluctuate, this leaves an...

Solar technology is filled with potential. Scientists working in chemistry, energy, materials science and engineering are discovering new ways to convert light energy and generate electricity. ...

The research first quantified the impacts of future climate change (2056-2060 compared to 2016-2020) on wind and solar resources and electricity demand in 178 countries based on the CMIP6...

Researchers from Harvard, Tsinghua University in Beijing, Nankai University in Tianjin and Renmin University of China in Beijing have found that solar energy could provide 43.2% of ...

At Tsinghua University, microgrid experts are rewriting the rules of energy distribution like chefs reinventing a classic recipe. These researchers aren't just keeping the lights on - they're creating ...

Shi Chen's solar power modelling has earned international accolades. The postdoctoral researcher says that deploying solar in Asia and the Middle East first could speed up decarbonization.

With the increasing shortage of fossil energy and air pollution, solar energy sees its rapid development as a clean and renewable energy. Developing and utilizing solar energy is one of the...

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