

What is Tsinghua University known for?

Tsinghua University houses one of the country's leading energy research institutes, and published more than 1,500 papers in electrical and electronic engineering last year. This is more than any other single institute globally, according to data from Clarivate's Web of Science.

How important is forecasting wind and solar power in China?

As demand for wind and solar power increases, so systems for accurately forecasting their availability are becoming more important to power companies in China, says Fei Wang, a researcher in electrical engineering at North China Electric Power University in Beijing, an institute that fosters talent in research related to energy production.

How can China's Energy Grid support cleaner fuels?

Nature spoke to four research teams hoping to play their part in China's adoption of cleaner fuels, each focusing on different parts of the country's vast energy grid. Pumped hydropower is the most common type of energy storage in use globally, often supporting electricity grids that rely on solar or wind power.

Does anthropogenic forcing affect solar radiation brightening in East and West China?

With the increase of anthropogenic forcing in the SSP2-4.5 and SSP5-8.5 scenarios, the degree of solar radiation brightening in the East China is weakened, and even the phenomenon of solar radiation dimming appears in West China.

Why did the monsoon cause a low solar radiation event in Tibet?

In 2021, the radial wind from the Bay of Bengal was extremely strong, and a large amount of water vapor transported caused the total cloud cover to be higher than usual during the monsoon period, which triggered the extremely low solar radiation event in southeastern Tibet (Fig. 1b).

WeChat official account for the Energy Internet Research Institute, Tsinghua University. ... Chongqing Kang, Benjamin Kroposki and Qing Xia. Economic justification of concentrating solar power in high renewable energy penetrated ...

2016-2018, Research on High-efficiency Reliable Utilization of Wind Energy and Solar Energy with Accurate Resources, Beijing Municipal Science and Technology Plan. (PI at THU) 2014 ...

In October 2021, Xiangyuan Zheng, an ocean-engineering researcher at Tsinghua University, won a patent for a fish-farming cage that is powered entirely by wind and solar sources.

Bin Wu currently works at the Institute of Nuclear and New Energy Technology, Tsinghua University. Bin

does research in Nuclear Engineering, Mechanical Engineering and Materials ...

Tsinghua University in Beijing, who advises ... University houses one of the country's lead-ing energy research institutes, and published ... predict levels of solar energy. But cloud cover

Dr. Yixiang Shi is now a professor in Department of Energy and Power Engineering at Tsinghua University. His current research activities include hydrogen production, fuel cell and ...

Peixue Jiang is a professor and Dean of Department of Energy and Power Engineering, Dean of School of Mechanical Engineering, Tsinghua University, China, academician of CAS. His ...

On the western edge of Maowusu, one of China's major deserts, stands a factory making a kind of clean energy to replace coal -- hydrogen. The factory, in northwest China's Ningxia Hui ...

WeChat official account for the Energy Internet Research Institute, Tsinghua University. ... Tsinghua University EEA's research on solar thermal power generation has been ...

Since 2015, the question is no longer whether renewable energies will power our future society, but when and how. In this talk, we put our current energy needs into context with the amount ...

On December 26, the "Highlighted Achievements Most Focused by Teachers and Students of Tsinghua University" (10 in total) were announced at the "Scientific Research and Innovation ...

I am currently an Associate Professor in the Electrical Engineering Department of Tsinghua University. My research interests include multiple energy systems integration, stochastic ...

Energy Strategy Reviews 20 (2018) 113-123 Peak energy consumption and CO2 emissions in China's industrial sector Sheng Zhou, Yu Wang, Zhiyi Yuan, Xunmin Ou* Institute of Energy, ...

We are striving to realize the large scale utilization of solar energy in a cost efficient way by developing new materials and optimizing the interfaces of different functional layers in the solar ...

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