



Zhongshengjunfeng Breeze Wind Power Generation

A wind-induced film vibration triboelectric generator (WV-TENG) incorporating a stackable dual-blade structure is engineered to achieve the harvesting of breeze energy (2-5 m/s) and high output power.

The invention discloses a breeze-starting core-free wind power generator, in particular relates to a civil wind power generator which has large caliber and light weight and is capable...

Abstract Currently, wind energy harvesting is in the limelight. However, with the existing electromagnetic wind generators, it is difficult to harvest multifariously-wasted breezes. To harvest ...

Here, a high-performance triboelectric nanogenerator (TENG) for efficiently harvesting energy from an ambient gentle wind, especially for speeds below 3 m s^{-1} is reported, by taking ...

This study successfully developed a wind-induced film vibration triboelectric generator to harvest the wasted wind energy in urban. Integrating the stackable dual-blade structure into TENG ...

In a wind-driven triboelectric nanogenerator, the wind speed will continuously change from the entire process when external wind enters the device and then leaves.

Utilizes intelligent tracking technology for wind energy generation efficiency, effectively adjusting current and voltage, resulting in high power conversion efficiency.

Consequently, there exists a compelling need to develop efficient TENGs for capturing breeze wind energy. In this study, we present a novel blade-type triboelectric-electromagnetic hybrid ...

The system is systematically designed, with the turbine, control, and inverter integrated as a complete set. Every parameter related to power generation is optimized to ensure high efficiency and reliability, ...

In distributed energy, wind turbines usually suffer from low harvesting capacity or high cut-in wind speed due to their structures. To tackle this issue, we propose a breeze-driven triboelectric-electromagnetic ...



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