

This paper proposes the impeller wind turbine, which uses more effectively the wind energy and depends only on the acting area of the vanes. The vane wind turbine is designed to increase the ...

A deep neural network (DNN) prediction model of ice-coating quality for the impeller was constructed with the change rate of the first six-order natural frequencies as the input factor. The ...

It is a very important fundamental work that 3D-model of impeller for wind turbine can be achieved precisely, in order to enhance the credibility of CFD analysis in subsequent calculations.

The new impeller type wind turbine design reportedly achieves higher power outputs by utilizing a drag factor, with simulations indicating better performance than flat vanes, particularly in low wind conditions.

The present invention relates to the field of wind turbines. More particularly, the invention relates to the structure of a horizontal axis wind turbine impeller having flexible blades...

The present invention relates to an impeller for wind power generation that can improve power generation efficiency and has excellent quietness, and a wind power generation system provided...

The wind impeller is the key component of the wind turbine system to capture wind energy and withstand the wind load. The cost ratio is about 20% of the whole machine cost, and the relevant ...

The Vertical Axis Wind Turbine (VAWT) has attracted extensive research attention due to its inherent benefits, including straightforward manufacturing processes

In order to develop a new wind turbine design that is more effective than existing designs, the inventors were forced to construct a wind turbine. The wind turbine described in this ...

Web: <https://www.black-hat.co.za>