Title: Butterfly type wind power generation
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PURPOSE: A butterfly-shaped blade for the wind power generation is provided to rotate rotary shaft using less wind by rotating a first blade plate and a second blade plate in wind direction.

Wind turbine is a device that converts the Kinetic Energy from the wind into mechanical energy. If the mechanical energy is used to produce electricity, then that device is called as wind generator. Here ...

To mitigate the randomness and uncertainty of wind energy, and improve prediction accuracy, the butterfly optimization algorithm is introduced to optimize the parameters of variational ...

Based on a concept of "cost reduction by large rotor and small generator", a kind of small vertical axis wind turbine (VAWT) called a butterfly wind turbine (BWT) has been developed with...

Abstract An objective of this study is to demonstrate the validity of using a small wind turbine to recover the fluid energy flowing out of an exhaust duct for the generation of power. In these experiments, a ...

The VAWT was named the "Butterfly Wind Turbine (BWT)" as the rotor is shaped like a butterfly [6]. The BWT would be expected to have small aerodynamic resistance and small blade-tip loss due to the ...

Based on a concept of "cost reduction by large rotor and small generator", a kind of small vertical axis wind turbine (VAWT) called a butterfly wind turbine (BWT) has been developed with ...

This study presents the development of a butterfly-inspired vertical axis wind turbine (BAWT), integrating drag- and lift-based mechanisms inspired by biological structures.

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