Wind Feather Power Generation

Wind tunnel tests have shown that the technology can reduce noise levels by 50 to 80 percent. That reduction of noise and turbulence behind the blade allows the turbine to spin slightly faster in wind of ...

Therefore designing a kind of wind power generation plant of new type auto regulation propeller pitch angle becomes to be highly desirable to, and is conducive to promoting Exploitation,...

To capture energy from even gentle breezes, we developed a bird feather-inspired TENG that functions as a wind harvester and alternator simultaneously, converting wind energy into power ...

Improvements in the aerodynamic performance of blades will lead to a boost in the power generation efficiency of wind turbines. Gao et al. demonstrate a bionic design for wind turbine blades ...

Architect Renzo Piano and ENEL Green Power have developed the Dragonfly Turbine, an aesthetic and innovative project for the exploitation of wind energy. Unlike traditional wind turbines ...

Inspired by the highway anti-glare panels, wind energy harvesting triboelectric nanogenerator (AG-TENG) arrays to properly capture energy from highway moving vehicles is ...

Noise from wind turbines limits where they can be built. But a design that mimics the shape of owl feathers can make wind farms quieter and help renewable energy grow faster.

This Review analyses developments, costs and challenges of wind-driven triboelectric nanogenerators and evaluates research directions towards industrial applications.

As the kite glides and maneuvers across the sky, its movements pull the tether, which in turn drives the generator to produce electricity. This efficient system can harvest wind energy from ...

The startup Biome discovered that adding a feather-shaped tip to wind turbine blades could help generate 10% more power. To design a better wind turbine, a startup called Biome took...

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