

Multi-directional wind-gathering wind power generation



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Harvesting multidirectional wind energy based on flow-induced ...

By introducing the directional tuning mechanism based on guide-wing, the TENG-WIV aims to break the constraints of single wind direction response and effectively respond to the wind ...

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Flow Field Analysis and Structural Optimization of a Rotating ...

In this paper, a new type of wind collection device that can generate rotating wind for wind power generation has been designed to address the shortcomings of current wind power generation ...



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A Novel Triboelectric-Electromagnetic Hybrid Generator with a Multi

Abstract High-efficiency wind energy collection and precise wind vector monitoring are crucial for sustainable energy applications, smart agriculture, and environmental management. A ...



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Multi-directional wind energy harvesting based on the coupling

A new piezoelectric energy harvester is proposed which employs the coupling effect between a piezoelectric beam and an elastic-supported sphere to capture wind energy from multiple ...



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Multiple Wind Farms Power Generation Scenario Generation and ...

Large scale access integration of wind power generation brings great challenges to power system. Scenario generation and reduction are the basis for power system security ...

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A cross-coupled dual-beam for multi-directional energy harvesting from

To the authors' best knowledge, research on the development of multi-directional wind energy harvesters is still relatively rare. Since the direction of the natural wind is featured with even ...



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An arc-shaped piezoelectric generator for multi-directional



wind ...

In this study, a piezoelectric wind energy harvester was demonstrated, which aimed at addressing the limitations of the existing approaches including single-directional operation and ...

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Conceptual design of airborne contra rotating VAWTs for rooftop wind

Co-rotating, counter, and contra-rotating Vertical Axis Wind Turbines (VAWTs) offer higher power yields than singular turbines due to synergetic interactions, making them ideal for ...



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Multi-directional and multi-modal vortex-induced vibrations for wind

The proposed configuration sheds light on developing multi-directional and multi-modal VIV-based energy harvesters adapted to wind conditions in natural environments.

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A multi-directional and multi-modal galloping piezoelectric

...

Despite the existing approaches and systems for gallop-ing energy harvesting in multiple incident wind directions, it should be noted that there is little research on such har-vesters that can execute multi ...

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