

An ionic wind is air movement is induced due to the electro-hydrodynamic (EHD) principle. Ionic wind is one of the interesting phenomena in plasma science. The ionic wind is the movement ...

In recent years, wind power generation has developed on a large scale worldwide. According to the statistical data from Global Wind Energy Council (GWEC), the new installations surpassed ...

FIG. 1. Principle of the diode based pulsed power generator. FIG. 2. Electric circuit of the diode based pulsed power generator. FIG. 3. A pulsed corona system, energized by a diode based ...

This paper has presented experimental and theoretical results that demonstrate that classical scaling laws of corona discharge in wind may not apply if the electrode system is not grounded. Depending on the geometry, ...

Corona Discharge in Wind for Electrically Isolated Electrodes C. Guerra-Garcia<sup>1</sup>, N. C. Nguyen<sup>1</sup>, T. Mouratidis<sup>1</sup>, and M. Martinez-Sanchez<sup>1</sup> <sup>1</sup>Department of Aeronautics and Astronautics, ...

This is because, compared to other renewable power generation systems, wind and solar systems are inexpensive, can be installed in a wide variety of locations, and have few technical ...

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