Yufeng modified high power generator

How much power does a hybrid generator produce?
This hybrid generator combines high piezoelectric output current and triboelectric output voltage,which produces peak output voltage of ~370 V,current density of ~12 mA·cm -2 and average power density of ~4.44 mW·cm -2.

What is the output power density of a hybrid generator?
As a result,the hybrid open-circuit output voltage and current density were ~370 V and ~12 mA·cm -2,respectively and the output power density was ~4.44 mW·cm -2,which is one order of magnitude higer than the previously reported r-shaped hybrid generator 30.

What are the topologies for high-power DD generators?
Various topologies for high-power DD generators, such as a permanent magnet (PM) synchronous generator (PMSG), 5, 7 an electrically excited synchronous generator (EESG), 9 and a doubly fed induction generator (DFIG), 10 are researched. Among these, the DD-PMSG stands out as a representative topology.

Does a hybrid generator use a nanostructure?
Here,we demonstrate a hybrid generator which does not use nanostructurebut generates much higher output power by a small mechanical force and integrates piezoelectric generator into triboelectric generator,derived from the simultaneous use of piezoelectric and triboelectric mechanisms in one press-and-release cycle.

Is a 4-MW multithree phase generator suitable for a hybrid-electric aircraft propulsion system?
Abstract: This article describes the underpinning research, development, construction, and testing of a 4-MW multithree phase generator designed for a hybrid-electric aircraft propulsion system demonstrator. The aim of the work is to demonstrate gravimetric power densities around 20 kW/kg, as required for multi-MW aircraft propulsion systems.

Abstract: In order to further improve the output voltage amplitude and repetitive operation reliability of nanosecond pulse generator (PG) based on avalanche transistor (AT), ...

This study introduces a constrained many-objective optimization approach for the optimal design of 20 MW direct drive (DD) permanent magnet synchronous generators (PMSGs). Designing a ...

Yufeng Zhang"s 46 research works with 477 citations and 3,325 reads, including: A piecewise temperature-curvature compensation bandgap with internal chopper stabilized amplifiers

This article describes the underpinning research, development, construction, and testing of a 4-MW multithree phase generator designed for a hybrid-electric aircraft propulsion system ...

Moisture-electric generators (MEGs), harvesting ubiquitous moisture from the environment for electricity generation, have attracted great interest as power supply devices. However, there ...

Introduction: High power short duration (HPSD) ablation proved to be an effective and safe ablation technique for atrial fibrillation (AF). In former case series, a significant amount of ...

<p>The pulse forming network (PFN)-Marx generator can realize both integration of pulse modulation and pulse voltage accumulation, exhibiting a the natural "gene" of compactness. In ...

This paper presents surface dielectric barrier discharge plasma generators as an efficient source of low-energy ions. Either positive or negative ions can be extracted from a ...

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