

Electromagnetic frequency conversion energy storage equipment

This paper undertakes theoretical and experimental investigations of a stacked magnetic modulation harvester with frequency up-conversion for energy harvesting performance enhancement ...

In our paper, a novel hybrid energy harvester based on frequency up-conversion, which integrated three kinds of electrostatic, piezoelectric and electromagnetic mechanisms ...

Abstract This paper presents an electromagnetic translational-rotary motion impact energy harvester based on a magnetic cylinder rotated around a fixed magnetic ring. It is beneficial ...

The present work aims at demonstrating the wide applicability of sputtered micromagnets through their integration into a MEMS process flow. As a case study, the fabrication of an ...

This research focuses on the development and optimization of a wave-driven electromagnetic energy harvester designed to efficiently capture and store energy from low ...

Electromagnetic induction heating steam generator, also known as electromagnetic steam boiler, is a power device that uses the principle of electromagnetic induction eddy current heating to convert ...

The invention relates to an electromagnetic conversion energy storage system comprising an isotropic electromagnetic induction energy storage device and a high-frequency alternating...

This study investigates methods to enhance the energy conversion efficiency of electromagnetic repulsion mechanisms.

It specializes in the development, production, and sales of magnetic devices. Its products find applications in various technical fields, including EMC electromagnetic interference, high-frequency ...

Results highlight the potential of these harvesters to convert mechanical energy into electric energy both for large-scale and small-scale applications. Moreover, this paper proposes ...



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