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Title: Electromagnetic frequency conversion energy storage equipment

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A frequency up-conversion piezoelectric-electromagnetic hybrid wave energy harvester based on magnetic coupling has been presented. The low-frequency wave motion is ...

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Electromagnetic energy storage solutions represent a critical advancement in energy management and conversion technologies. With the increasing demand for high ...

According to the characteristics of electromagnetic thermal energy storage, the full-bridge inverter and resonant circuit with simple structure, high voltage utilization and high ...

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Environmental mechanical vibrations, characterized by low-frequency excitations, may be considered as renewable energy sources providing an efficient energy conversion ...

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Abstract Electro-thermal energy storage (ETES) technology has presented its great potential to efficiently consume renewable energy and increase the flexibility of power ...

To conquer the energy-insufficiency issue of a single energy harvester, hybrid energy harvesting technology is becoming an emerging consensus. Based on Halbach ...

The isotropic electromagnetic induction energy storage device further comprises two or three magnets, a filtering and rectifying circuit and an electric power storage device, wherein the two ...

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Superconducting magnetic energy storage system A superconducting magnetic energy storage (SMES) system applies the magnetic field generated inside a superconducting coil to store ...

Abstract A hybrid energy harvester with frequency up-conversion structures is proposed. The harvester achieves a high power output by utilizing both piezoelectric and ...

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

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