Two-way charging of foldable containers for research stations

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Abstract: This article introduces a spatial wireless charging system featuring a cubic transmitter (Tx) designed for strong and uniform magnetic field distribution inside the Tx ...

One of the primary issues with wireless charging containers is that the received power is relatively low due to weak coupling and the small size of the receiver coil. Therefore, this paper ...

This paper introduces three different shapes of wireless charging containers (i.e. quad-rangular prism, octagonal prism, and hexagonal prism) and presents optimal current flow designs for ...

Containerized mobile foldable solar panels are an innovative solar power generation solution that combines the mobility of containers with the portability of foldable solar panels, ...

The wireless charger can include a first leaf having first charging components for charging a first electronic device and a second leaf having second charging components for charging a ...

This paper presents an octagonal prism-based wireless charging container with multiple folding coils winding equidistantly around the surface of the container.

In this paper, a novel foldable coil and charge station design is proposed for the wireless charging of UAVs. IPT is provided by receiver and transmitter coils placed on the ...

This paper introduces three different shapes of wireless charging containers (i.e. quadrangular prism, octagonal prism, and ...

The wireless charger can include a first leaf having first charging components for charging a first electronic

device and a second leaf having a charging puck that includes second...

In this paper, a novel foldable coil and charge station design is proposed for the wireless charging of UAVs. IPT is provided by receiver ...

This paper introduces three different shapes of wireless charging containers (i.e. quadrangular prism, octagonal prism, and hexagonal prism) and presents optimal current flow ...

The presented foldable container passed the tests for international certifications ISO 1496-1 and CSC required for its application on site. Differently from the 4:1 folding ratio ...

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