

The study encompasses the conceptual design of the Korean Space Solar Power Satellite (K-SSPS), a proposed disposal method involving lunar surface impact for complete ...

It involves key technologies such as space solar power station system, as well as long-distance and efficient wireless power transmission. There are hundreds of scientific research ...

The basic idea is to set up an SSPS in a geosynchronous orbit (GEO) or sun-synchronous orbit, collect solar energy using concentrating or non-concentrating methods, and ...

Space solar power science and technology is an interdisciplinary field of energy and aerospace technology. It involves key technologies such as space solar power station system, as well as ...

In order to address the future power generation needs for scientific exploration of the lunar permanently shadowed regions, this paper proposes a laser wireless power transfer ...

select article Theoretical and experimental studies of retro-reflective antenna array for microwave power transmission from space solar power satellite to earth

Further research and development are needed in the following areas: optimizing the performance and reducing the mass of solar cells to decrease launch costs; advancing ...

In this paper, a concentrated sunlight energy wireless transmission system (CSEWTS), which can be deployed in resource satellites or space solar power plants (SSPP), ...

This technology has the potential to significantly improve energy transmission efficiency, reduce energy loss, and minimize environmental pollution. Additionally, LPT can ...

Abstract Space-based solar power systems (SSPS) envision the usage of focused microwave beams to transfer power from space to ground. To supply a large amount of power ...

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