



Shooting high-speed solar power generation

As of date, deep space exploration has been hindered by the limitations of existing propulsion technologies. In contrast, solar sails appear to allow a low cost pathway to high speed ...

Today, multiple space agencies are investigating cutting-edge propulsion ideas that will allow for rapid transits to other bodies in the Solar System.

Solar power is front and center in the race to launch satellite data centers into space, where 24/7 sunlight is available.

Brightline West, the proposed high-speed railway connecting Las Vegas to suburban L.A. by private equity billionaire Wes Edens, also intends to rely on carbon-free electricity. Unlike California's plan, it ...

N2 - We show that solar cells, widely used in portable devices for power generation, can simultaneously extract a high-speed data signal in an optical wireless communication link.

OverviewInitial announcementObjectivesConceptTechnical challengesStarChipBreakthrough Starshot was a research and engineering project by the Breakthrough Initiatives program to develop a proof-of-concept fleet of light sail interstellar probes named Starchip, to be capable of making the journey to the Alpha Centauri star system 4.34 light-years away. It was founded in 2016 by Yuri Milner, Stephen Hawking, and Mark Zuckerberg.

The DOE SunShot Initiative is a collaborative national initiative to make solar energy technologies cost-competitive with other forms of energy by reducing the cost of solar energy systems by about 75% by ...

Harvesting solar energy in orbit and beaming it down to Earth is a decades-old idea. Now, a raft of companies say they could make it a reality.

This paper employs modeling and simulations coupled with experimentation to establish a functional relationship between the percentage of solar power gain, tropospheric height, and wind ...

Here we report measurements of fast solar wind streams from the Parker Solar Probe (PSP) spacecraft 6 that provide strong evidence for the interchange reconnection mechanism.



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