

Saturn and beyond, solar panels of the future will need to be more efficiently convert sunlight into power. NASA's mission to moon Europa may be the first to use such technology.

Power generation is provided by three solar arrays consisting of 11 solar panels and one MAG boom. Two 55 amp-hour lithium-ion batteries provide power when Juno is off-sun or in eclipse, ...

Juno, the first solar powered space probe to be sent to Jupiter, entered orbit around the gas giant planet yesterday. Its mission is to probe Jupiter in ways it has never been probed before to ...

With a mission design that avoids any eclipses by Jupiter, minimizes damaging radiation exposure and allows all science measurements to be taken with the solar panels facing the sun, ...

The Juno spacecraft, orbiting Jupiter since 2016, relies on solar power despite operating in a region where sunlight is a mere 4% as intense as on Earth. This feat is achieved through a ...

Unlike previous probes to the outer solar system, Juno is solar-powered. Because of Jupiter's distance from the Sun, Juno's three arrays of solar panels total more than 20 metres (66 ...

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Juno's big contribution is demonstrating that these advanced arrays can be used so far from the Sun, where the amount of solar energy is only four percent of what it is on Earth.

The more light a solar cell converts into electricity, the more efficient the cell. Juno's very efficient solar arrays benefit from many advances in solar cell technology achieved over the past 20 years.

Following the full deployment and locking of the solar panels, Juno 's batteries began to recharge. Deployment of the solar panels reduced Juno 's spin rate by two-thirds.

SummaryOverviewNamingScientific instrumentsOperational componentsGalileo plaque and minifiguresScientific resultsGalleryJuno was selected on June 9, 2005, as the next New Frontiers mission after New Horizons. The desire for a Jupiter probe was strong in the years prior to this, but there had not been any approved missions. The Discovery Program had passed over the somewhat similar but more limited Interior Structure and Internal Dynamical Evolution of Jupiter (INSIDE Jupiter) proposal, and the turn-of-the-century era Europa Orbiter w...

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