



Solar power scientists





Overview

Researchers discovered a new way organic molecules can mimic the quantum mechanics of inorganic materials, turning light into electricity with extraordinary efficiency. This finding could revolutionize solar power by allowing single-material, ultra-light panels. Today, NASA continues to advance solar panel technology and test new innovations. Even before the light bulb, scientists had inklings of the power locked up in a ray. Two Swedish inventors are betting on aerodynamic resilience to solve the latitude gap. With no fuel or engines, tiny explorers will surf sun-warmed air alone to explore high in the skies of Earth and Mars. Even without subsidies, renewable energy is staying competitive with power from gas and coal. Now, a team of researchers at Kyoto University may have discovered a way to break through those limits using a remarkable twist of quantum physics, magnetism, and cutting-edge materials science. In a recent study published in *Nature Communications*, the scientists have unveiled a new kind of solar.



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[Scientists unlock a 100-year-old quantum secret to supercharge solar power](#)

Researchers discovered a new way organic molecules can mimic the quantum mechanics of inorganic materials, turning light into electricity with extraordinary efficiency. This finding could

[Beam Solar Energy From Space? These Scientists Achieve a Breakthrough](#)

Giant orbiting solar power plants could soak up the constant sunshine in space--unhindered by clouds, night or seasons--and beam it back to Earth, Peter Glaser wrote in the journal Science.



Solar energy

Martin Green discusses how, over the past decade -- and continuing today -- we have witnessed a rapid increase in solar photovoltaic installations, a sharp decline in costs, and swift

[New solar cells break efficiency record - they could eventually](#)

In the new nature paper, a team of researchers at the energy giant LONGi has reported a new tandem solar cell that combines silicon and perovskite materials. Thanks to their improved sunlight



How NASA Uses and Improves Solar Power

NASA scientists and other researchers around the world are working to improve the efficiency and durability of solar panels. In addition to using silicon, scientists have discovered that adding a layer of ...



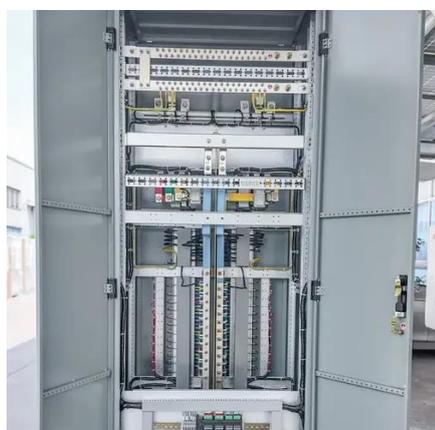
[A coming solar storm could trigger a global blackout, scientists warn](#)

Solar scientists are tracking a surge in activity on the sun that could unleash powerful storms toward Earth, with the potential to disrupt electricity, communications and navigation on a global



[Scientists beam solar power to Earth from space for 1st time ever](#)

A space solar power prototype has demonstrated its ability to wirelessly beam power through space and direct a detectable amount of energy toward Earth for the first time.



[New solar cells break efficiency record -](#)



they could ...

In the new nature paper, a team of researchers at the energy ...

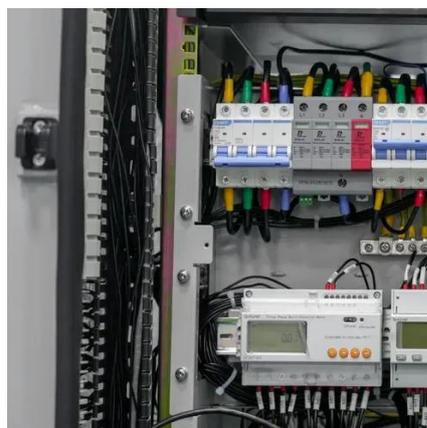


Space Solar Power Project Will Harness the Sun to Power the Planet from

Bren charged Caltech with making solar power feasible and--equally as important--economically viable. The Institute responded by asking Hajimiri, Pellegrino, and Atwater's teams to invent the necessary ...

Scientists Unlock Hidden Solar Power Using Quantum Magnetism

By manipulating the quantum fabric of materials to create new kinds of photoelectric responses, scientists are redefining what solar power can be. They're no longer just absorbing sunlight--they're ...





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