

Using technology similar to night-vision goggles, researchers have developed a device that can generate electricity from thermal radiation. The sun's enormous energy may soon be ...

With a far infrared heating system powered by your solar array, you can heat your home using only the energy produced by the sun. This setup leads to both environmental benefits and significant cost ...

In a major leap for clean energy, scientists have figured out how to make solar panels that are lighter, more efficient, and -- for the first time -- durable enough for everyday use.

One of the most effective ways to monitor solar panels for early signs of problems is by using thermal imaging. Infrared (IR) anomaly detection has become a powerful tool for spotting ...

Discover how cutting-edge solar technologies like thermophotovoltaic cells and quantum dots are unlocking the power of infrared light to boost solar energy output and enable night-time ...

A majority of solar panels are made of materials that convert primarily visible light. But some work best with ultraviolet or infrared light.

They've developed a high-efficiency, high-stability hybrid solar cell that can capture near-infrared light. It's particularly special because it can absorb not only visible light (the kind we...

Now, researchers from the National Renewable Energy Lab and ...

UNSW Sydney researchers have tested a thermo-radiative diode that can harness the infrared emission of the Earth into outer space. The device is similar to night-vision goggles and ...

Now, researchers from the National Renewable Energy Lab and MIT have improved a technology for using the stored heat to produce electricity: a photovoltaic device that's sensitive to ...

While standard solar panels do not absorb infrared radiation for electricity generation, understanding the role of IR radiation and its impact on panel temperature is crucial for optimizing ...

Scientists unveil infrared tech to enhance next-gen solar panels. Discover how this breakthrough could revolutionize solar energy today!

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