
"It can retain both the solar heating and radiative cooling effects in a single system with no need of electricity. It"s really sort of a "magic" system of ice and fire."

A passive cooling system developed at MIT relies on evaporation and radiation and requires no electricity. The device can provide up to about 19 degrees Fahrenheit (9.3 ...

Imagine a device that can sit outside under blazing sunlight on a clear day, and without using any power cool things down by more than 23 degrees Fahrenheit (13 degrees ...

A Penn State research group is developing a new way to cool buildings and devices by using a special material that lets sunlight pass through to generate electricity while ...

Imagine a device that can sit outside under blazing sunlight on a clear day, and without using any power cool things down by more than ...

A new study describes a new technology that provides both radiative cooling and solar heating, all is one system and without using electricity or fuel.

The system combines radiative, evaporative, and thermal insulation technologies in a slim package that resembles existing solar panels.

A simple cooling system driven by the capture of passive solar energy could provide low-cost food refrigeration and living space cooling for impoverished communities with no ...

Scientists have engineered a plant-based cooling film that can lower building temperatures by nearly 10 degrees Celsius without consuming any energy. The biodegradable ...

The film reflects nearly all solar radiation and allows internal heat to escape directly into space.

This zero-energy technology may soon replace conventional cooling technologies, offering an alternative that requires only water to function.

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