

Does a 4G D-base station have a self-cleaning property?

As shown in Video S3, the 4G d-base station painted with a superamphiphobic PSDRC coating exhibited excellent self-cleaning properties. In these two companion papers, the base stations (cabinets) coated with PSDRC and cool white coatings are denoted as PSDRC and cool white base stations (cabinets) (see Fig. 3). Fig. 2.

Why does the PSDRC D-base station have a subambient cooling effect?

The superamphiphobic self-cleaning capability of the topcoat caused the PSDRC d-base station to be as clean as the initial state; this provided the d-base station with a distinct sub-ambient cooling effect after more than one year.

How much energy does a D-base station save?

With the use of the air conditioners, the chamber interior temperatures of the PSDRC and cool white d-base stations from October 22, 2021 to August 29, 2022 were approximately the same (Fig. S5c). The PSDRC d-base station conserved 998.4 kWh of cooling electricity and generated an overall CEE of 54.6% (Fig. S5d).

How much electricity does a PSDRC D-base station save?

The PSDRC d-base station conserved 998.4 kWh of cooling electricity and generated an overall CEE of 54.6% (Fig. S5d). The PSDRC phenomenon is not completely understood. Many scientists believe that these PSDRC coatings are identical to conventional cool white coatings.

Telecom batteries for base stations are backup power systems that ensure uninterrupted connectivity during grid outages. Typically using valve-regulated lead-acid (VRLA) or lithium-ion (Li-ion) batteries, ...

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The phrase "communication batteries" is often applied broadly, sometimes including handheld radios, emergency devices, or general-purpose backup batteries. In practice, when ...

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To overcome the issue of overheating and conserve cooling energy consumption, a superamphiphobic passive sub-ambient daytime radiative cooling (PSDRC) coating was extensively ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of battery ...

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