Room temperature superconducting solar container battery

Now, however, a team of researchers claims they have produced ...

Equipped with integrated solar panels, LiFePO4 batteries, and a high-efficiency refrigeration system, it provides stable, low-temperature storage for agriculture, food distribution, logistics, and ...

Herein, we reported a novel stable ordinary temperature flexible phase change material (FPCM) basis of paraffin wax (PW), polyolefin elastomer (POE), and expanded graphite (EG), which ...

Now, however, a team of researchers claims they have produced a superconductor that can function at room temperature and with a relatively small amount of pressure.

For the first time in the world, we succeeded in synthesizing the room-temperature superconductor (Tc >= 400 K, 127 ? C) working at ambient pressure with a modified lead-apatite (LK ...

Though not room temperature, a rare earth "infinite layer" nickelate was recently discovered that superconducted at the unheard of (for nickelates) temperature of 44K at ambient pressure. This ...

If confirmed, discovery of room temperature superconductors could be one of the biggest physics announcements this century, paving way for longer-lasting batteries and efficient grids.

A new superconducting compound offers a bridge to more practical superconductors with a potentially attractive range of applications, according to new research.

Since the discovery of high-temperature superconductors ("high" being temperatures above 77 K (-196.2 °C; -321.1 °F), the boiling point of liquid nitrogen), several materials have been claimed, although not confirmed, to be room-temperature superconductors. In 2014, an article published in Nature suggested that some materials, notably YBCO (

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Room-temperature sodium-sulfur (RT-Na/S) batteries are promising alternatives for next-generation energy storage systems with high energy density and high power density.

University of Illinois Chicago scientists are working on materials that could allow superconductors to function at room temperature, eliminating the need for extreme cooling.

While the superconducting nature of LK-99 seemed to be largely discredited last year, a new team of researchers just presented evidence that suggests it does fit the bill for a...

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