



Is the blue light powered by solar energy

Why do we use blue LED lights?

In the spirit of Alfred Nobel, the Prize awards an invention of greatest benefit to mankind; by using blue LEDs, white light can be created in a new way. With the advent of LED lamps we now have more long-lasting and more efficient alternatives to older light sources.

Could blue LED lights make a difference in lighting efficiency?

The 2014 Nobel Prize in physics went Tuesday to three scientists who gave lighting a makeover by inventing blue LED lights. The award recognizes a seemingly commonplace innovation, but one that has paved the way for a sea change in lighting efficiency that is under way around the world.

How does a blue LED light work?

A blue LED has a spike of luminescence in the blue light range. In order to produce color, it excites yellow phosphor, shifting some of its energy into other color bands. LEDs have a more intense illumination than most other forms of commercial lighting.

What is the main source of blue light?

Sunlight is the main source of blue light, but as more of us use laptops, flat-screen televisions, tablets, and smartphones, we increase our exposure to blue light that mimics daylight. Fluorescent lights and some types of LED lightbulbs also emit higher levels of blue light compared to incandescent bulbs.

Why is blue light called high-energy visible light?

Blue light also is known as high-energy visible (HEV) light because it has the shortest wavelengths-- and therefore the highest energy -- of all visible light. Because too much HEV light can have negative effects, we have evolved ways to limit how much visible light enters our eyes.

Why do we need blue light?

Red and green light-emitting diodes have been with us for almost half a century, but blue light was needed to really revolutionize lighting technology. Only the triad of red, green and blue can produce the white light that illuminates the world for us.

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Web: <https://publishers-right.eu/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

