

New Circular Light Device



Overview

Caption: A new class of photonic chips that use light instead of electricity to process data features arrays of microscopic structures that curl upward like tiny, glowing ski jumps. Researchers can precisely control how light is emitted from thousands of these structures. The Color Rendering Index (CRI) measures the ability of a light source to reproduce the colors of an object precisely. Circular light technology has a high CRI, which means it produces better color rendering, making it ideal for lighting up spaces where color is crucial, such as art galleries and. Researchers in the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have created a chip-scale device that can dynamically control the “handedness” of light as it passes through – also known as its optical chirality – with a simple twist of two specially designed photonic. Resource-efficient, durable, and recyclable – Circular Lighting represents a new era of building illumination based on the principles of the circular economy. Manufacturers, planners, and architects play a key role in implementing sustainable lighting solutions. Fiber optic cables. Bainbridge Island, Wash. -based Solius Labs announced \$23 million in Series A funding on Wednesday along with the launch of the Solius Pro: a \$2,995 UVB (Ultraviolet B) light therapy device for home and professional use. The device, which hangs on a wall and is about the size of a large laptop. Light-emitting structures that curl off the chip surface could enable advanced displays, high-speed optical communications, and larger-scale quantum computers.

Article Content

Recent advances in circularly polarized luminescent materials based

Chiral materials exhibiting circularly polarized luminescence (CPL) represent an emerging research frontier and are expected to be applied in a variety of fields. This review

The next wave of LED lighting: Smarter, circular and

Recycling also remains important for LED supply-chain resilience, for example in the context of the EU Circular Economy Act targets for lighting

Recent Advances in Emerging Polarization-Sensitive Materials: From ...

Polarization is an important property of light that provides some additional information about the light such as polarizability and phase. With the rise of polarized photodetectors, the

Circular Light Led: Lighting Explained

Conclusion Circular LED lights represent a significant advancement in lighting technology, combining efficiency, versatility, and aesthetic appeal. Their unique design allows for even light distribution,

New photonic device efficiently beams light into free space

A new class of photonic devices enables the precise broadcasting of light from the chip into free space in a scalable way, which could lead to

New chiral photonic device combines light manipulation

Being able to modify the device's circular dichroism gives researchers fine-grained control over which direction circularly polarized light twists, meaning

Circularly polarized luminescence from organic micro-/nano-structures

Circularly polarized luminescence (CPL) from chiral luminophores is an ideal approach to directly generating circularly polarized light, in which the energy loss induced by the circularly...

Implantable LED device uses light to treat deep-seated cancers

But deep-seated cancers have been beyond the reach of light's therapeutic effects. To change this, engineers and scientists have devised a wireless LED device that can be implanted.

A Dynamic Twist of Light's "Handedness"

Researchers in the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have created a chip-scale device that can

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Circular displays with a variety of interface options, with or without touch, rotary switch functionality and stunning all round viewing angles. Add a different dimension to your product design. Ideal for home

High-Efficiency Circularly Polarized Light-Emitting Diodes Based on ...

Circularly polarized light-emitting diodes (CP-LEDs) are critical for next-generation optical technologies, ranging from holography to quantum information processing. Currently deployed chiral

New chiral photonic device combines light manipulation with memory

Engineering researchers at the University of Utah have now developed such a device -- one that can be adjusted on the fly to give light different degrees of circular polarization.

Near-Infrared Circularly Polarized Electroluminescence

In this study, the development of the first fully-organic circularly polarized near-infrared organic light-emitting diode (CP-NIR-OLED) is

Selling sunshine from Seattle: Solius raises \$23M to launch new at

Founded in 2013, Bainbridge Island, Wash.-based Solius Labs received FDA clearance for its \$2,995 Solius Pro, a device which calculates and delivers a personalized dose of UVB light.

Circular Ring 2 with ECG, wireless charging: Now shipping

Circular is back with the next iteration of its smart ring series, unveiling the Circular Ring 2 at CES 2025.

Circular unveils next-gen Ring 2 with ECG functionality and AFib ...

The device utilizes an advanced PPG (photoplethysmogram) sensor to capture a single-lead ECG, which records the heart's electrical activity by measuring changes in blood flow through

New material emitting spinning light could revolutionize optics and ...

A team of scientists has developed a new type of material that efficiently emits circularly polarized light — waves with a rotating electric and magnetic fields — thanks to a specially designed

Cellulose-Based Switchable Circularly Polarized Light

In this study, we present a Janus circularly polarized light emitter comprising a fluorescent film combined with chiral nematic cellulose with

Pioneering Circular Systems for Modern Lighting

Efficient and future-ready: Circular lighting with modular designs and recyclable materials for sustainable building concepts.

Rapid time-resolved Circular Polarization Luminescence (CPL ...

Circular polarization luminescence (CPL) spectroscopy is a tool to study chiroptical systems, but the measurement process is generally very slow. The authors introduce a CPL

The Circular Ring 2 is here and it beats the Oura Ring in two big ways

While the Circular Ring Slim is made from a mix of materials, including aluminum, titanium and unspecified non-metal material on the inside, the new Circular Ring 2 has an all-titanium exterior.

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