

# Smart Authentication for Planar Waveguides in Data Centers

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Herein, we report an optical temperature sensor with a planar waveguide architecture integrating inkjet-printed luminescent light coupling-in and readout elements with matched emission and excitation.

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PUFs are constructed from light emitting diodes (LEDs) and an image sensor affixed to the PCB, which is then coated with a thin polymer planar waveguide. The system is designed to create a unique key ...

To evaluate the optical performance of the SiC waveguides, a custom optical testing platform was designed and assembled, including a DLP light engine, a luminance colorimeter ...

In this paper, we present an optical temperature sensor having a planar waveguide architecture and including two luminescent layers with matched emission properties. These two ...

This will allow glass waveguide based EOCBs to support the future bandwidth requirements inherent to large scale data centre and high performance computer subsystems while not incurring the same ...

Glass substrates with integrated optical waveguides, electrical interconnects and mechanical alignment features were introduced as a novel assembly platform for surface-mount photonic packaging.

Waveguides formed on a flat substrate are called planar waveguides. These are typically made by stepwise deposition of films of dielectric materials (typically glass). The waveguide core is defined by ...

We highlight how meta-optics can infuse new degrees of freedom to waveguide-based devices and systems, by enhancing light-matter interaction strength to drastically boost device ...

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