

Uzbekistan's Low-Loss Silicon Photonics Technology

With this release, designers can now access QoreTek's advanced FlowSiN(TM) technology directly through the Lucea Photonics Design Platform, unlocking efficient, accessible, and scalable ...

We survey the state of the art in fundamental building blocks, including strip, rib, and silicon nitride waveguides, with a focus on achieving ultra-low propagation loss.

We exploit the excellent refractive index matching between Sb₂Se₃ and silicon to achieve a low-loss hybrid platform for programmable photonics.

The key drivers for using silicon for photonics include the advantages of low-loss silicon waveguides with compact size and excellent uniformity, resulting from the high quality and mature ...

Key PIC benefits: considerable SWaP savings, higher bandwidth and data rate, low cost redundancy, aperture-independent (fiber-coupled), transparent to modulation format, versatile, and ...

We are presently working toward further reduction of coupling losses below 0.5 dB by implementing 3D printed lenses, 18 directly printed on the waveguide facets at wafer scale.

Our mission is to commercialize ultra-low loss photonic integrated circuits and provide access to this highly specialized technology. Our disruptive technology will revolutionize photonic systems for ...

We chart the generational trends in silicon photonics technology, drawing parallels from the generational definitions of CMOS technology. We identify the crucial challenges that must be...

Here we demonstrate a fabrication technology that meets all requirements on wafer-level yield, performance and length scale.

The analysis of novel highly sensitive optical magnetometers using low-loss silicon nitride waveguides shows that with recent advances in Ce:YIG pulsed laser deposition on silicon nitride, sensitivities on ...

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