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Silicon-based Ge photodetectors, as the core devices in silicon-based integrated optoelectronic systems, have received considerable attention due to their superior electrical and ...

Optical interconnects offer higher bandwidth density and lower energy per bit than copper, and complementary metal-oxide-semiconductor-compatible silicon photonics provides a scalable,...

Leveraging the low-loss silicon nitride waveguide, our approach enables the creation of stable, high-performance filters suitable for applications in quantum and nonlinear photonics.

Abstract: We demonstrate comprehensive numerical studies on a hybrid III-V/Si-based waveguide system, serving as a platform for efficient light coupling between an integrated III-V quantum dot ...

The rapid evolution of integrated photonics has ushered in a transformative era for optical communication and information processing systems, with silicon-based optical chips emerging as a ...

Despoina Petousi, a young Greek scientist based in Germany who works on devices which enable high-speed internet, recently won the prestigious "Bertha Benz Prize" for 2018 for her ...

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In this work, we present our scalable DWDM link architecture, designed with co-packaging in mind. We report device-level measurements of key components and validate comb-driven end-to-end data ...

Think Silicon S.A. specializes in ultra-low power, high-performance Graphics Processing Units (GPUs) and semiconductor IP cores, with a focus on innovative GPU IP solutions for embedded systems, ...

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