Wavelength Division Multiplexing Chip

Wavelength Division Multiplexing (WDM) is a technique in fiber-optic communication systems that enables multiple optical signals with different wavelengths to be combined, transmitted, and ...

Here, an on-chip approach to differentiate wavelength components is proposed in the visible regime for wavelength division multiplexing (WDM).

Wavelength division multiplexers are fundamental to the functioning and performance of integrated photonic circuits, with applications ranging from optical interconnects to sensing and quantum ...

This work presents a 16-channel wavelength division multiplexing silicon photonics receiver chip composed of an arrayed waveguide grating and Ge-on-Si photodetectors.

An on-chip 64-channel hybrid (de)multiplexer for wavelength-division multiplexing (WDM) and mode-division multiplexing (MDM) is designed and demonstrated on a 220 nm SOI platform for ...

To address the grand challenge faced by future large-scale optical interconnect systems, we demonstrate in this article the first gate-tuning on-chip WDM filters showing a large wavelength ...

We present a novel multi-channel wavelength division (de)multiplexer (WDM) with unprecedented compactness and efficiency. To be more precise, our WDMs with four, five, and six ...

In this work, a low-loss two-channel wavelength division multiplexer (WDM) at the resonant pumping and emission wavelengths (~1480 nm and 1530-1560 nm) of erbium ions based on angled multimode ...

Here we propose a scalable on-chip parallel IM-DD data transmission system enabled by a single-soliton Kerr microcomb and a reconfigurable microring resonator-based CD compensator.

The authors demonstrate a cutting-edge THz signal processing on-chip active wavelength division multiplexer (WDM) system operating at THz frequencies.

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