Wavelength Division Multiplexing Chip Technology

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

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 ...

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

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 ...

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising ...

In fiber-optic communications, wavelength-division multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single optical fiber by using different ...

DWDM, or dense wavelength division multiplexing, transmits multiple optical signals over a single fiber--greatly reducing power and latency while connecting dozens of GPUs.

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.

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 ...

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

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