Dual-mode optical switch

In this paper, we propose a novel compact 2 × 2 four-mode optical switch enabling the switching operation of four modes simultaneously, which is based on Y-junction couplers and 2 × 2...

In this paper, we design and experimentally demonstrate a high-speed dual-mode 4 × 4 optical switch based on a mode-diversity scheme, composed of four pairs of mode multiplexers and de ...

In this Letter, we demonstrate a dual-mode 2 × 2 electro-optical switch on a silicon-on-insulator platform. The dual-mode Mach-Zehnder interferometer switch comprises of four p-i-n phase shifters and two ...

Here, we propose two 1 × 2 dual-mode optical switches with simultaneous modulation on a silicon-on-insulator platform in the 1525-1565 nm wavelength range, utilizing two optical phase ...

An unprecedented dual-mode optical switch by combining helicene and bis-azobenzene moieties in proximity allows for cooperative, highly diastereoselective chirochromic (92/8 to 3/97) and photochrom...

In this work, we have proposed and fabricated a dual-mode optical mode switch based on an X-cut LNOI platform, designed for high-speed mode-division multiplexing systems.

We propose and experimentally demonstrate a scalable, high-performance silicon multimode optical switch based on a robust Mach-Zehnder interferometer (MZI) architecture for arbitrary mode-to-dual ...

Here, a 1 × 2 dual-mode optical switch is proposed and experimentally demonstrated, where the E 11 and E 21 modes can be switched output from either of the two output ports ...

In this paper, we design and experimentally demonstrate a high-speed dual-mode 4 × 4 optical switch based on a mode-diversity scheme, composed of four pairs of ...

This paper presents the design and demonstration of 1 × N (N = 2, 4) dual-mode optical switches on a silicon-on-insulator platform, optimized for mode division multiplexing (MDM).

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