Intelligent Usage Method of Multi-wavelength Light Source

Lincoln Laboratory has demonstrated a wavelength-beam-combining technique that significantly improves the brightness and intensity achieved by diode laser systems. This technology could lead ...

Establishing 100-channel coherent sources is challenging, as limited by the scalability of conventional laser sources. The soliton microcomb as a multi-wavelength source provides a scalable ...

Here, we demonstrate a multi-wavelength multi-port source based on a Kerr microcomb followed by a monolithically-integrated demultiplexer, which autonomously locks to and tracks the comb lines.

In this work, we propose and demonstrate an intelligent few-mode, multi-wavelength fiber laser. We fabricate a few-mode Mach-Zehnder interferometers (FM-MZI) comb filter based on a self ...

In systems based on dispersion compensating fiber, micro-ring resonator array, and Mach-Zehnder interferometer array that use multi-wavelength optical carriers as the light source, the ...

This advanced LED illuminator, configurable with 3 to 11 individual LEDs, delivers outstanding output power across a corresponding number of precisely selectable wavelengths, all seamlessly combined ...

The invention relates to the field of optoelectronic technology, in particular to a device that uses LED light-emitting chips to emit light sources of different wavelengths.

Despite recent impressive advances, developing such a quantum light source with high quality remains challenging. Here a multi-wavelength quantum light source using a silicon nitride ...

Abstract: We propose a multi-wavelength fiber laser employing a double-pass Mach-Zehnder interferometer filter, a piece of polarization maintaining fiber, a semiconductor optical amplifier and an ...

We demonstrate a light source for multi-wavelength interferometry based on electro-optic single-sideband modulation. It reliably generates synthetic wavelengths with arbitrary values from ...

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