Dual polarization-maintaining fiber

Overview

A stable dual-wavelength erbium-doped fiber laser is proposed and experimentally demonstrated. The mode competition in the gain medium was suppressed by enhancing the polarization hole b.

Dual polarization-maintaining fiber

	We demonstrate a novel bidirectional fiber laser mode-locked by nonlinear polarization evolution in all-PM fibers for the first time. This laser configuration o
	By introducing a piece of highly birefringence material in the medium, usually a segment of polarization-maintaining (PM) fiber, the refractive index of the cavity is diverted into two axes, the ...
	Abstract: We demonstrate an all polarization-maintaining (PM) fiber based dual-wavelength mode-locked Er-fiber laser. A nonlinear amplifying loop mirror (NALM) with an intracavity...
	According to the experimental setup, both PM-EDF and PDI are polarization-maintaining fiber with birefringence as there is a phase difference between the two propagating fields at both fast ...
	Abstract: We propose and demonstrate, for the first time to the best of our knowledge, an all-polarization-maintaining (all-PM) dual-comb Er-fiber laser based on combined figure-8 and figure-9 ...

In this work, we introduce a novel design of Dual Semi-Circular Core Modified Circular Cladding Holey Fiber (DSCMC-HF), which demonstrates exceptional optical performance for ...

Studies have also reported that fiber-based OFCs using a polarization-maintaining fiber (PMF) offer an inexpensive, compact, and robust setup by decoupling the laser part, thereby ...

In this paper, we demonstrate a bidirectional polarization-maintaining mode-locked fiber laser, of which the two orthogonal polarization components propagating along fast- and slow-axis are bidirectionally ...

With a pair of wavelength matched fiber Bragg gratings written directly in a polarization-maintaining erbium-doped fiber, a stable short cavity dual-wavelength single-longitudinal-mode (DW-SLM) ...

We present an all-polarization-maintaining, polarization multiplexed, dual-comb all fiber laser based on a nonlinear amplifying loop mirror and gain sharing.

Contact Us

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