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Based on the finite difference method, different properties of highly nonlinear photonic crystal fibers are calculated. It is demonstrated that the nonlinear coefficients more than 64 and 55 [Wkm] -1 at 1.06 μm and 1.31 μm , respectively, with flattened chromatic dispersion of 0 ± 3.7 ps/(nm.km) and low confinement losses less than 10 -9 dB/m, simultaneously.

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Highly Nonlinear Photonic Crystal Fibers

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Highly nonlinear photonic crystal fibers are designed with a small core to get a high nonlinear coefficient. The air-filled microstructured cladding region of nonlinear photonic crystal fibers lends this fiber type several advantages compared to standard step-index fibers.

A silicon photonics slot waveguide with a record nonlinearity of 104 000W-1km-1 at 1.5 μm is reported. We demonstrate demultiplexing of 130 Gbit/s signals to 10 Gbit/s using FWM in a 6 mm-long device.

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Highly nonlinear photonic crystal fibers for optical ...

The detail of the design process is presented in this paper. According the simulation results, we have fabricated a kind of highly nonlinear photonic crystal fiber, which is characteristics with the flatten dispersion curve at 800nm wave band and negative dispersion at wavelength of 805nm (about -40ps/nm/km).

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Moreover, highly nonlinear optical fiber leads to novel nonlinear effects. In optical fiber, a narrow core and high doping levels can reduce effective area and enhance nonlinearity. Hence, PCF can obtain high nonlinearity. Because of its high sensitivity, low confinement loss, high birefringence, nonlinearity and flexibility in design, PCF can ...

A nonlinear photonic crystal fiber for liquid sensing ...

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Highly sensitive nonlinear photonic crystal fiber based ...

The development of new highly nonlinear fibers - referred to as microstructured fibers, holey fibers and photonic crystal fibers - is the next generation technology for all-optical signal processing and biomedical applications.

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