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#### Nonlinear waveguide optics and photonic crystal fibers ...

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#### [PDF] nonlinear optics and photonics eBook PHOTONIC CRYSTAL FIBERS - NKT Photonics

"The HNLF-SPINE is a nice extension of our already broad product offering within highly nonlinear fibers," says Bera Pálsdóttir, Manager of Incubation Center OFS Denmark. About OFS OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTX and specialty photonics solutions.

#### NONLINEAR OPTICS: Photonic-crystal fibers are selectively ...

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 -40p-s/nm/km).

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We propose a new structure of highly nonlinear dispersion-flattened (HNDF) photonic crystal fiber (PCF) with nonlinear coefficient as large as  $30 \text{ W}^{-1}\text{km}^{-1}$  at  $1.55 \mu\text{m}$  designed by varying the diameters of the air-hole rings along the fiber radius. This innovative HNDF-PCF has a unique effective-index profile that can offer not only a large nonlinear coefficient but also flat dispersion slope and ...

#### Highly nonlinear photonic crystal fibers for optical ...

#### Applications of Nonlinear Fiber Optics | ScienceDirect Fiber Optics Highly Nonlinear Photonic Crystal Fiber

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#### Fiber Optics Highly Nonlinear Photonic

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.

#### Highly Nonlinear Photonic Crystal Fibers

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  $[\text{Wkm}]^{-1}$  at  $1.06 \mu\text{m}$  and  $1.31 \mu\text{m}$ , respectively, with flattened chromatic dispersion of  $0 \pm 3.7 \text{ ps}/(\text{nm}\cdot\text{km})$  and low confinement losses less than  $10^{-9} \text{ dB/m}$ , simultaneously.

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#### Analysis and fabrication of highly nonlinear photonic ...

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#### OSA | Highly nonlinear dispersion-flattened photonic ...

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 ...

The majority of our nonlinear fibers are available with hermetically sealed ends and FC/PC connectors. In addition, our most popular PM supercontinuum fiber for 800-nm-range pumping is available as in the femtoWHITE devices where the fibers are mounted in a metal housing with sealed and cleanable end-facets.

#### Nonlinear photonic crystal fibers - NKT Photonics

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This study has reported an extremely high sensitive and nonlinear chemical sensor based on photonic crystal fiber is presented with numerical investigation. In order to reduce fabrication complexity, the proposed chemical detector is designed with circular air holes. To calculate the guiding characteristics, finite element method based Comsol software is used.

#### 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.

#### Applications of Nonlinear Fiber Optics | ScienceDirect

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#### OFS Specialty Photonics Division intros highly nonlinear fiber

Optical fibers are at the heart of everything we do at NKT Photonics. ... we offer the CONNECT broadband fiber delivery system, enabling easy and robust single-mode coupling for fiber delivery at any wavelength ... our nonlinear photonic crystal fibers offers a unique combination of tailored dispersion profile and a very high nonlinear coefficient.

#### PHOTONIC CRYSTAL FIBERS - NKT Photonics

A silicon photonics slot waveguide with a record nonlinearity of  $104 \text{ 000W}^{-1}\text{km}^{-1}$  at  $1.5 \mu\text{m}$  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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The concept of filling the holes in a photonic-crystal fiber (PCF) to modify the fiber's properties has gained a tremendous amount of interest in different optical fields. It is possible to use gases, metals, and liquids as filler materials. 1-4 In nonlinear optics, liquids are most interesting because of their potential to generate high optical nonlinearities due to their large nonlinear ...

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