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## QGAUI4 - FRANCIS RICHARD

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In this paper I will try to describe how a broadband Supercontinuum (SC) generation in highly nonlinear photonic crystal fiber (HN-PCF) at center wavelength 0.8  $\mu\text{m}$ , 1.3  $\mu\text{m}$  and 1.55  $\mu\text{m}$  which can ...

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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 ...

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

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

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Highly nonlinear photonic crystal fibers 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.

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#### 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.

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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 char-

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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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A silicon photonics slot waveguide with a record nonlinearity of 104 000W-1km-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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