

Hollow-core fiber tapered



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A tunable optofluidic microring dye laser within a tapered hollow core microstructured optical fiber was demonstrated. The fiber core was filled with a microfluidic gain medium plug and axially pumped by a ...



We demonstrate generation and guidance of a three-octave spectral comb, spanning wavelengths from 325 to 2300 nanometers, in a hydrogen-filled hollow-core photonic crystal fiber.



In this study, we used hollow-core fiber combined with flexible and variable optical fiber fusion technology to prepare a microminiature and tapered MZI sensor, thereby improving its strain ...



In this communication, we will first review the recent advances of hollow-core photonic crystal fibers. Then, the possibility offered to tailor their optical properties by making tapers will be discussed.



In this paper, in order to further improve the temperature sensitivity of HCBF-based OFTSs while ensuring low strain sensitivity, we have designed a new sensing structure: a tapered ...



A brand new anti-resonant hollow-core fiber Fabry-Pérot etalon for astronomical wavelength calibration is proposed by precisely placing gold-coated tapered sing



We report experimental and numerical simulations on the generation of Deep Ultraviolet (DUV) dispersive waves in a tapered single-ring anti-resonant hollow-core fiber.



Hollow-core fiber (HCF) and single mode fiber (SMF) are fused together to form the "SMF-HCF-SMF," then tapering HCF, and finally forming a sensor. The light in the sensor structure ...



We report on the properties of tapered single-ring hollow-core photonic-crystal fibers, with a particular emphasis on applications in nonlinear optics.

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