

We thank Lennart Jehle and Michal Vyvlecka for use of their low-jitter SNSPD system, Christopher Hilweg for fruitful discussion on AR-HCF applications, and Obada Alia and George T. ...

By leveraging independently synthesized raw materials, a capillary preparation process with precise size control, and a cutting-edge drawing process for hollow core fibres, YOFC has developed a range of ...

Beyond speed, hollow-core fibers drastically reduce glass interaction by factors ranging from 10^2 to 10^5 , which virtually eliminates nonlinear effects such as Kerr and Brillouin or Raman ...

Here we report hollow core fibres, of nested antiresonant design, with losses comparable or lower than achievable in solid glass fibres around technologically relevant wavelengths of 660,...

Designed for consistent fundamental-mode operation, HC-ARFs offer stable, high-quality beam transmission across a broad spectral range. Manufacturing of hollow core fibers is done under ...

A novel hollow core anti-resonant fiber with glass-sheet conjoined nested elliptical tubes is proposed and investigated numerically. The elliptical tubes are introduced to original HC-ANF with ...

In this paper, we comprehensively review the progress in the development of HCFs including fiber design, fabrication and parameters (with comparisons to conventional single-mode ...

This work presents an ultra-low loss hollow-core anti-resonant fiber design featuring a triple-nested cladding architecture with elliptical nested elements and six auxiliary compensation tubes located ...

In this paper, a novel nested concentric circle anti-resonant hollow-core fiber with double-layer cladding structure and an outer cladding ring is proposed.

The most notable feature of this fiber is that it uses a 19-cell type core which can achieve a low transmission loss, but has a special structure called Perturbed Resonance for Increased Single ...



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