Hollow-core negative curvature optical fiber

Abstract: Hollow-core negative curvature fibers can confine light within air core and have small nonlinearity and dispersion and high damage threshold, thereby attracting a great deal of interest in ...

The rebirth of dielectric hollow core waveguides was accompanied by the appearance of hollow core photonic bandgap fibre (HC-PBG) towards the end of the 20th century.

In this chapter, we describe a review covering the development of the negative curvature hollow core fiber for the mid-IR region.

The background, optical properties, and applications of low-loss negative curvature hollow-core fiber are reviewed. Data on spectral attenuation are collated and extended.

In this paper we consider a new type of hollow core microstructured optical fibers (HC MOFs) so called negative curvature hollow core fibers (NCHCFs). NCHCFs are known as hollow core fibers which ...

Recent advances in hollow-core fiber orient a practical approach for proper UV light delivery sustainable to high-power and long-term irradiation. In this Letter, we report two types of hollow-core negative ...

We propose a nested negative curvature hollow-core fiber that can stably transmit a single-mode (LP 11 mode) dark hollow beam with low loss. A pair of resonant tubes is nested inside the ...

Abstract--In negative curvature hollow core fibers (NCHCFs), light guidance is based on the capillary structure in the cladding. To achieve desirable fiber propagation properties, various designs of the ...

In this letter, we report the design, fabrication and characterization of a new HCF structure referred to as hollow-core conjoined-tube negative-curvature fibre (HC-CTNCF or CTF for short).

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