

Hollow-core fiber structure solar cells



Overview

In the field of organic solar cells with a nanofiber structure, we introduced hollow core nanofibers as a novel and effective buffer layer of organic solar cells.



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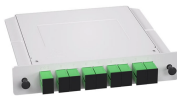
A comparison between solid-core silica fibers and hollow-core fibers is presented, focusing on telecom-relevant metrics. The article concludes with a summary of current challenges ...



Here, we report a versatile cell-friendly photopolymerization approach that enables single-step prototyping of hollow-core as well as solid-core hydrogel fibers initially loaded with living cells.



Here, we demonstrate an HCF made from an ultralow expansion glass that exhibits a three orders of magnitude lower coefficient of thermal delay than traditional fibers. This performance, ...



The proposed hybrid structure owns great potential for polarization-sensitive applications and provides a new idea to design hollow-core polarization-maintaining fibers with high birefringence ...



The fiber form of this dielectric structure exhibits a hypocycloid core-contour, and consists of an amorphous lattice of isolated tubes arranged to form a circular layer around a hollow-core.



We present a numerical based approach to design a new 2-D hollow core photonic crystal (2-D HCPC) structure of hexagonal lattice arrangement with circular air holes on an Indium ...



Compared to solid-core optical fibers, HCFs exhibit ultra-low nonlinearity, high damage threshold, low latency and temperature insensitivity, making them ideal candidates for high-speed data ...



In the field of organic solar cells with a nanofiber structure, we introduced hollow core nanofibers as a novel and effective buffer layer of organic solar cells.



A hybrid microstructured cladding significantly reduces confinement loss and preserves single-mode operation in hollow-core photonic crystal fibres.



Hollow core fibres - why? Vast topological range of fibres proposed: Low nonlinearity Low latency Low dispersion

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