High-performance hollow fiber



Overview

This review analyzes the current state of the art of hollow fiber technology, exploring its diverse applications across various fields.

Article Content

Review of Hollow Fiber Membranes for Gas Separation: Exploring

This review analyzes the current state of the art of hollow fiber technology, exploring its diverse applications across various fields.

Construction of a high-performance hollow fiber ...

In this work, a high-performance HFC NF membrane was successfully developed through simultaneous modification of the substrate via alkaline hydrolysis and incorporation of iopamidol

High performance dual-layer hollow fiber membrane of sulfonated ...

This study provides a novel method for the fabrication and microstructural manipulation of high-performance dual-layer hollow fiber membranes for H2 /CO 2 separation at elevated temperatures.

Hollow Fiber Membranes – TFF Filter Modules for Bioprocessing

Our hollow fiber modules efficiently process high biomass, such as microbial harvests, saving valuable facility time. Available in multiple scales as self-contained modules, they minimize cross

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Molecular dynamics investigation of interfacial energy and mechanical ...

These findings provide molecular-level insight into how polymer compatibility governs the performance of braid-reinforced hollow fiber membranes and offer valuable guidelines for designing

Hollow-core breakthrough

A hollow-core optical fibre which surpasses silica fibre''s long-standing limits and provides an attenuation below 0.1 dB/km across a record-wide bandwidth, could yield more energy-efficient ...

New hollow-core fiber test pushes internet speeds to 1.2Tb/s

By validating stable high-speed performance outside laboratory conditions, the test strengthened the case for hollow-core fiber as a novel communications technology.

(PDF) Review of Hollow Fiber Membranes for Gas ...

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Hollow-Core Fibers (HCF): The Next Frontier in Optical

This shift marks the emergence of hollow-core fiber as a transformative technology and invites a deeper exploration of its design principles, performance

Fiber optic innovations: Pushing the limits of data

Higher-bandwidth fibers (through new core designs and multiplexing), lower-latency pathways (via hollow-core and smarter routing), and stronger

Cauliflower-like SnO2 hollow microspheres as anode and carbon fiber

Cauliflower-like SnO2 hollow microspheres as anode and carbon fiber as cathode for high performance quantum dot and dye-sensitized solar cells.

Delivery of Mid-infrared Femtosecond Laser by

However, ChGs have very high nonlinear coefficients and relatively low damage thresholds, which can easily lead to distortion of laser properties

YOFC Achieved World''s First 1.2Tb/s Per-Wavelength

On June 16, Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC) announced the successful completion of the world''s first field-trial hollow-core fiber (HCF) wavelength

Screening of bioactive compounds and research of possible targets

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In this study, hollow fiber cell fishing with high performance liquid chromatography (HFCF-HPLC) is further extended and verified. The surface properties of the hollow fiber seeded

5 Trends Driving Fibre Optic Deployment in 2026 – Wray Castle

High performance access technology such as 5G, fixed wireless access, and business fiber customers'' connected services all depend on dense fiber backhaul and middle mile network

Transversely Directional, Low-Threshold Nested Anti-Resonant Hollow ...

This work demonstrates an effective strategy for simultaneously achieving low-threshold operation and directional output in symmetric hollow-core fiber systems, offering a new technological pathway for

Microsoft Teams Optimization for Amazon Workspaces in Public Preview

We''re thrilled to announce the first-ever Virtual Desktop Infrastructure (VDI) optimization for Microsoft Teams in Amazon WorkSpaces for Windows endpoints —a major milestone for AWS

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