

Optical fiber arrays provide a number of advantages for array fabrication and biosensing: (i) they are readily available; (ii) they contain a high-density of features; and (iii) they can be configured to ...

Fiber arrays are 1D or 2D arrays of optical fibers, used for coupling to photonic circuits, telecom signals, and laser beam combining.

Fiber-optic pressure sensors are a new generation of sensing technology developed to break through the above bottlenecks. Its main advantage is the use of light waves as information carriers. It ...

PM fiber arrays are not merely optical components; they are pivotal in ensuring reliable performance in telecommunications, sensor applications, and new frontiers like quantum technologies.

Two-photon polymerization and subsequent metallization are adopted to fabricate a range of SERS arrays on both planar substrates and end-facets of optical fibers.

The substrate material affects the optical properties of the fiber array, and a material with a low coefficient of expansion is required to ensure stress-free, highly reliable fiber arrays and no ...

Its core function is to fix and package multiple optical fibers in parallel with extremely precise spacing and arrangement on a substrate with micro grooves (such as glass, silicon), forming a standardized ...

This page details optical properties for these substrates, as well as the substrates used in our aspheric and achromatic lenses. To quickly navigate through these substrates, use the Table of Contents ...

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Our approach supports scalable, high-density fiber-optic X-ray arrays, providing a new platform for advanced imaging in both scientific and industrial applications.

Explore the critical applications of fiber arrays in PLCs, AWGs, MEMS optical switches, multi-channel optical modules, and sensing systems. Learn how FAs drive precision and integration ...

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