

In this work, we present an on-chip PBS based on the visible spectrum (485-540 nm) on a Si₃N₄ platform using the inverse design method.

ArcGIS geoprocessing toolset containing tools for performing spectral analysis on multiband and hyperspectral imagery.

The splitter creates separate output paths, each carrying a specific, isolated range of wavelengths. This segregation allows engineers to process or utilize each wavelength independently, optimizing the ...

The dichroic beamsplitter has been successfully applied in the optical system of infrared remote sensing. It provides a technical approach for other optical systems to separate the optical ...

Scientists are increasingly relying on astronomical and remote sensing technologies to gain deeper insights into the Earth and the universe. In these ...

Multispectral imaging systems enable the simultaneous acquisition of spatial and multispectral information about a target, thereby improving the capability of all-weather autonomous ...

His primary research interest is in the remote sensing of Earth's upper atmosphere and space environment, with an emphasis on the ultraviolet airglow ...

First, a frequency-domain-based RS image-text retrieval adapter (FRS-Adapter) was developed. By expanding the spectral receptive field, it extracts the unique structured information of ...

Fourier transform infrared (FTIR) spectrometers collect the thermal infrared radiation emitted from the Earth-atmosphere system and splits it into two beams by a half-transparent mirror called a beam ...

His primary research interest is in the remote sensing of Earth's upper atmosphere and space environment, with an emphasis on the ultraviolet airglow and aurora produced in the ...

Scientists are increasingly relying on astronomical and remote sensing technologies to gain deeper insights into the Earth and the universe. In these fields, the optical spectrum analyzer ...

According to the current demand for multi-band imaging equipment, this paper proposes a compact visible/long-wave infrared dual-band common aperture design. By sharing the primary and ...

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