

Vortex Optical Wavelength Division Multiplexing



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In this study, we present the design, fabrication, and test of metasurface optical elements for multiwavelength HOOV demultiplexing based on optical gyrator ...



optical multiplexing techniques, wavelength division multiplexing (WDM). The chapter begins with a quick historical account of the origin of optical communication and its exponential growth following the ...



The light sources used in high-capacity optical fiber communication systems emit in a narrow wavelength band of less than 1 nm, so many different independent optical channels can be used ...



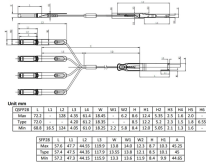
In this work, we have demonstrated a high-dimensional multiplexing framework that integrates OAM-based communications with polarization and frequency division multiplexing.



In this study, we present the design, fabrication, and test of metasurface optical elements for multiwavelength HOOV demultiplexing based on optical gyrator transformation transformations in the ...



Researchers reporting in *Advanced Photonics* demonstrate iso-propagation vortices for faster optical communication with enhanced resilience.



In this study, we propose a multi-wavelength diffractive deep neural network (D²NN) strategy for the parallel (de)multiplexing of OAM mode and wavelength channels.



For realizing undamaged demultiplexing, an all-dielectric multiplexed metasurface for demultiplexing wavelength-division multiplexing and polarization-division multiplexing OAM light was ...



Multiplexing of optical degrees of freedom, such as polarization and wavelength, has been a staple in enhancing communication capacity.



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Generally, for vortex beam based optical communications, OAM multiplexing and OAM coding/decoding are two important ways to carry and deliver data information. In OAM multiplexing, multiple collinear ...

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