



POS-11 - Metals for Induced Transmission Optical Filters

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Band pass optical interference filters can be constructed from simpler, stand-alone filter design components. Typically a peak centered in the filter's free spectral range is combined with low and high pass filters such that only a desired band pass remains over a wavelength range. The component filters can be either interference or absorption filters chosen such that there are no unwanted light leaks outside the band pass. Replacing the low pass filter with an induced transmission filter, one using embedded metal layers, can provide a better approach to suppressing long wavelength light leaks. This paper reports on simulations used to explore the performance of several easily vacuum deposited metals used in induced transmission filters.

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