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Dynamic, infrared bandpass filters prepared from polymer-stabilized cholesteric liquid crystals

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Abstract

We report on the formulation and electrical control of the position and bandwidth of reflective bandpass filters prepared from cholesteric liquid crystal (CLC) in the infrared (3–5 µm). These filters are prepared from alignment cells employing infrared transparent electrodes and substrates. The optical nature of the electrodes

is shown to strongly influence the resulting transmission of the bandpass filters outside of the spectral reflection.

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