


Efficient functional in-plane focusing devices (Technion)

code: COM-1670

Plasmonic Lenses are of substantial importance in the field of nano-plasmonics in which they are used to focus waves on a single small spot, as well as playing a role in functional focusing, which involves conditioning the existence of a focal spot on some parameter of the illumination. However, the known designs share common efficiency problems and today's plasmonic polarization dichroic lenses achieve high contrast dichroism in small areas on the order of the SPP wavelength which poses severe limitation on the application of such lenses with existing detectors. The presented design achieves high contrast circular dichroism inside a large area independent of the SPP wavelength allowing seamless integration with actual detectors.

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