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Nano-focusing for Near Field Optical Data Storage

Abstract body:

Focusing of laser beam down to nanometer scale with high efficiency is highly expected in data storage, near field optical imaging, nano-ablation, etc. However, due to the diffraction limit, the smallest beam size is usually much larger than 100 nm. Here we propose a method to focus visible light down to 20nm size by combining pupil function modulation and surface Plasmon excitation.