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Dispersion Controlled Thin-Films Boost the Performance of NLO Systems that Utilize a Femtosecond Laser

Some of the greatest recent advances seen in bio-imaging and detection are due to techniques that utilize non-linear optical (NLO) phenomena. These techniques have led to a Nobel prize, super-resolution images, label-free visualization of naturally occurring biomolecules, and greater freedom for working with in-vivo samples. Many NLO systems rely on the high peak pulse intensity of femtosecond lasers for signal generation. For this reason, the optical filters and mirrors integrated into these systems must have an appropriate laser damage rating, and the reflective components must be controlled for both group delay dispersion (GDD) and flatness. Choosing optical components that are specifically designed for NLO systems will ensure optimal signal strength, resolution, and image quality.

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