Ultra-low Noise Supercontinuum Generation with Flat-near Zero All Normal Dispersion Pure Silica Fiber at GHz Repetition Rate

A pure silica holey fiber with $\beta^2$ of 0.44 ps$^2$/km at 1.55 $\mu$m and less than 1 ps$^2$/km from 1.3 to 1.75 $\mu$m was engineered and drawn. It is numerically shown to generate a flat coherent spectrum, pumped by a 2 kW peak power, 250 fs pulse propagating 20 m

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