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Dispersion Engineered AsSe₂ Based Chalcogenide Photonic Crystal Fiber for MIR Region Supercontinuum

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Abstract

A highly nonlinear chalcogenide glasses have been studied in this paper for a broadening supercontinuum generation. This research demonstrates the generation of supercontinuum expanding from 1000 nm to over 15,000 nm through pumping pulse of peak power 5 kW in an extremely nonlinear AsSe₂ based chalcogenide