Void-Nanograting Transition by Ultrashort Laser Pulse Irradiation in Siilca Glass

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Optics Express

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**Available Files:**

**Data 1.** Nonlinear Schrodinger Equation calculation for laser fluence, incident intensity and electron concentration for varying pulse energies.

**Data 2.** Experimental Observation of Void to Nanograting Formation transition over multiple pulses for 1 and 2 uJ

**Data 3.** Incident intensity and laser fluence calculation for 1 and 2 uJ

**Data 4.** Electron concentration side-by-side with void formation for 1 and 2 uJ

**Data 5.** SEM Images of void to nanograting transition for 1 uJ

**Data 6-9.** Images of void-nanograting transition under cross-polarizers for cases chosen for paper

**Experimental Observations at Different Pulse Energies.** Optical images of void-nanograting transition for varying pulse energies

**Date of data collection:** from January 2015 - December 2015

**Information about geographic location of data collection:** University of Southampton, U.K.

**Date that the file was created:** August 2016