**Fabrication and deformation of three-dimensional hollow ceramic nanostructures**

**Supplementary movie legends**

**Movie S1** Uniaxial compression test on a unit cell of the octahedral titanium nitride nanotruss. Video is played at 5 times the actual speed.

**Movie S2** First round of 10 cyclic compression loading cycles on a unit cell of the titanium nitride octahedral nanotruss. Video is played at 15 times the actual speed.

**Movie S3** Second round of 10 cyclic compression loading cycles on a unit cell of the titanium nitride octahedral nanotruss. Video is played at 15 times the actual speed.

**Movie S4** Third round of 10 cyclic compression loading cycles on a unit cell of the titanium nitride octahedral nanotruss. Video is played at 15 times the actual speed.