

Video Caption. Molecular dynamics simulation of a $\langle 100 \rangle$ 1b PbSe nanowire without Eshelby's twist. The gray and yellow atoms are Pb and Se atoms, respectively. The red arrows denote the position of dislocation line, which is in $\langle 100 \rangle$ direction (z direction). The length of the cell in z direction is 12 nm and periodic boundary conditions are applied in z direction. The dislocation line quickly migrates to the surface, leaving behind the pristine NW structure.