

Description of Additional Supplementary Files

File name: Supplementary Movie 1

Description: Visualisation of molecular dynamics simulation of deposition process of amorphous-silicon film in the presence of nanoparticle nano-scaffold (single nanoparticle).

File name: Supplementary Movie 2

Description: Visualisation of molecular dynamics simulation of deposition process of amorphous-silicon film in the presence of nanoparticle nano-scaffold (two neighbouring nanoparticles).

File name: Supplementary Movie 3

Description: Visualisation of molecular dynamics simulation of deposition process of amorphous-silicon film in the absence of nanoparticle nano-scaffold.

File name: Supplementary Movie 4

Description: Visualisation of molecular dynamics simulation of indentation experiments (hold-compress-decompress) of amorphous-silicon films of various thicknesses grown in the presence of nanoparticle nano-scaffold.