Au Nanoparticle-based Multilayer Ultrathin Films with Covalently Linked Nanostructures: Spraying Layer-by-layer Assembly and Mechanical Property Characterization

Supporting Information

Figure S1. TEM image (a) and UV-vis spectrum (b) of as-prepared Au NPs.

Figure S2. UV-vis absorption spectra of multilayer films before (solid black line) and after UV irradiation (dashed red line): a) NDR/Au NP; b) (NDR+PDDAC)/Au NP; c) NDR/(PSS+Au NP).

Figure S3. Optical microscopy images of a multilayer film-coated PDMS sheet clamped on a homemade strain stage (a) and the corresponding regular ridges produced from the buckling test (b).