Supporting Information

Fabrication of flexible superhydrophobic films by lift-up soft-lithography and decoration with Ag nanoparticles

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Figure S1. An image shows the water droplet on the tilted superhydrophobic film. The sliding angle of water on the superhydrophobic film is about 4°, suggesting that the water droplet on the surface is not stable and easily rolls off.

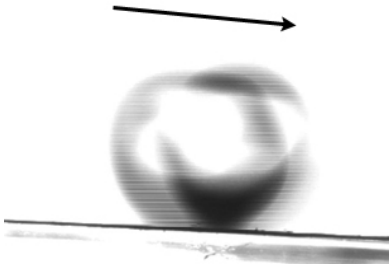

Figure S2. A SEM image of a PDMS film decorated with Ag NPs. The left inset shows a high magnified image and the right inset shows a water droplet with CA of 140° on the film after the PDT modification.

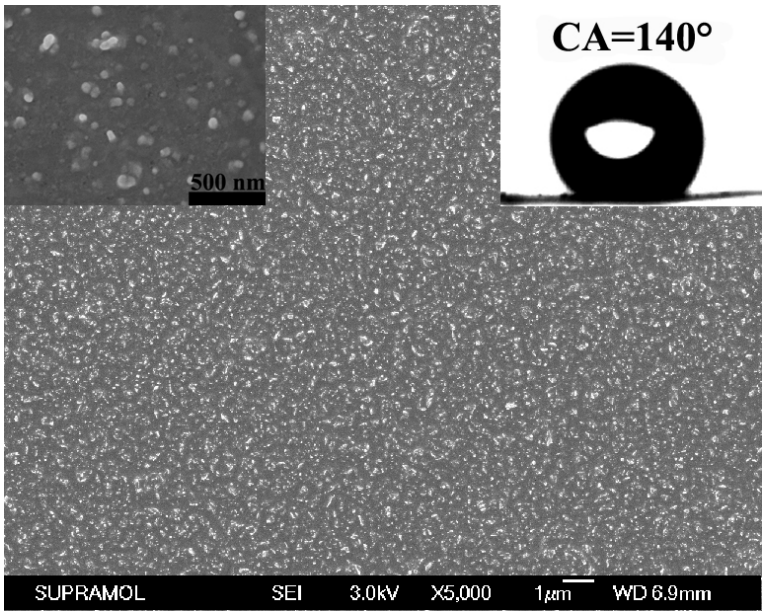

Figure S3.The SEM images of the silica spheres on a PDMS film, before (a) and after ultrasonic with the power of 150 W for 10 min (b), and after repeatedly folding at least 100 times (c). The SEM images show no silica spheres falling off from the PDMS film, suggesting that the silica spheres are mechanical stable on the PDMS film.