Superhydrophobic modification of polyimide films based on gold-coated porous silver nanostructures and self-assembled monolayers

Yan Zhao, Qinghua Lu,* Dongsheng Chen and Yen Wei

School of Chemistry and Chemical Technology, Shanghai Jiao Tong University, Shanghai 200240, P. R. China.

Department of Chemistry, Drexel University, Philadelphia, Pennsylvania 19104, USA

*To whom correspondence should be addressed. Tel.&Fax: 86-21-54747535
E-mail: qhlu@sjtu.edu.cn

Fig. S1 Low-magnification SEM images of the silver layers obtained at 240 °C, 280 °C, 320 °C.
240 °C, 280 °C, 320 °C, 340 °C, and 360 °C, respectively.

**Fig. S2** AFM images of the silver layers prepared at thermal treatment temperature (a) 240 °C, (b) 280 °C, (c) 320 °C, (d) 340 °C and (e) 360 °C. (f) Control sample treated with KOH and then heated at 360 °C for 2 h without being immersed in AgNO₃ solution. Their cross-sectional profiles along the lines marked in the images are shown.
Fig. S2 (Continued)