Electronic Supplementary Information (ESI)

Superhydrophobic Lotus-leaf-like Surface Made from Reduced Graphene Oxide through Soft-lithographic Duplication

*Xiawei Yun, Zhiyuan Xiong, Yaning He, and Xiaogong Wang**

Department of Chemistry Engineering, Laboratory of Advanced Materials (MOE),

Tsinghua University, Beijing 100084, P. R. China

Table S1. Elemental analysis results of GO and ODA-RGO

Sample	C (wt %)	O (wt %)	N (wt %)	C/O ratio (atomic)
GO	66.52	33.21	0.27	2.67
ODA-RGO	90.48	6.36	3.16	18.99

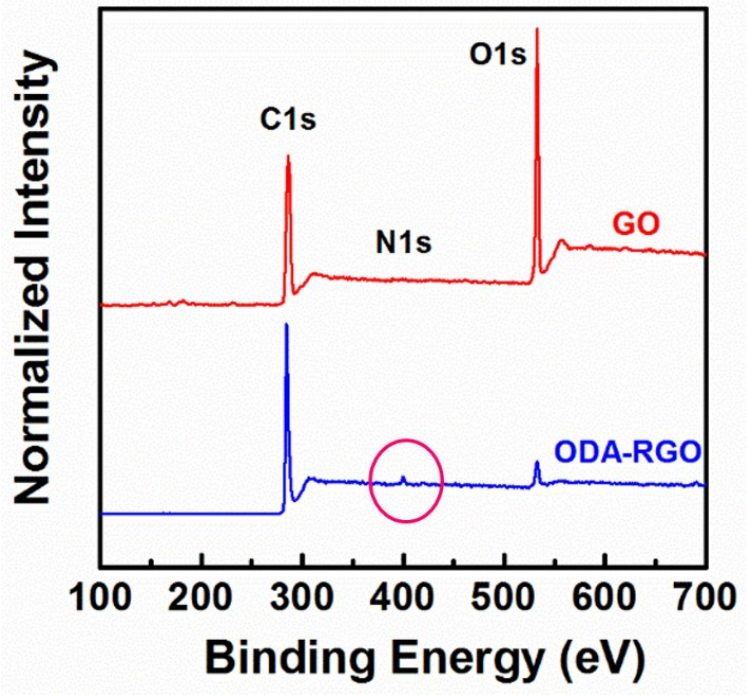

Fig. S1. Survey scanned XPS spectra of GO and ODA-RGO.

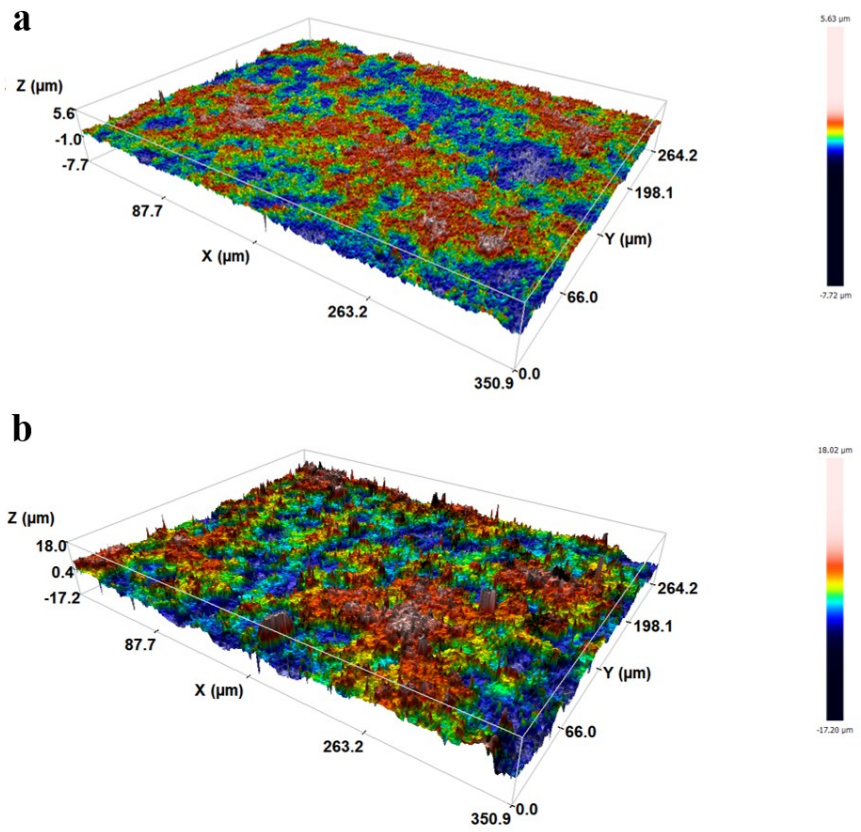

Fig. S2. Confocal microscope system 3D images of the drop-coated film surface and the printed lotus-leaf-like surface of ODA-RGO. The roughness values of the drop-coated film surface and printed lotus-leaf-like surface of ODA-RGO on glass slides are 0.616 μm and 3.116 μm.

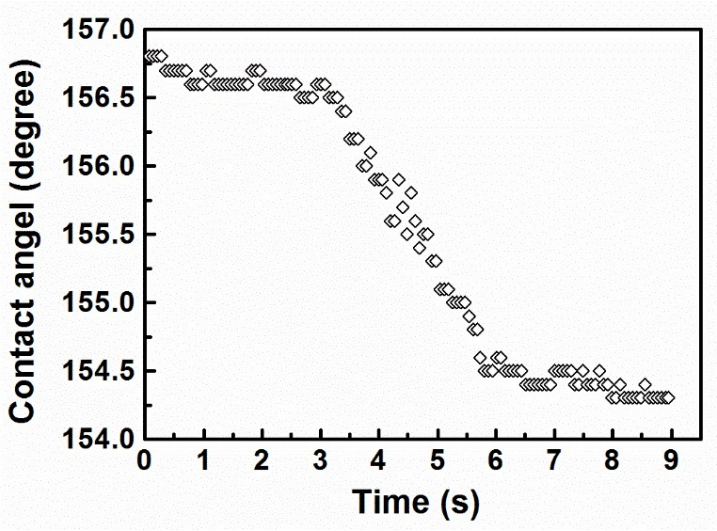

Fig. S3. Advancing and receding water contact angles of the ODA-RGO lotus-leaf-like surface.

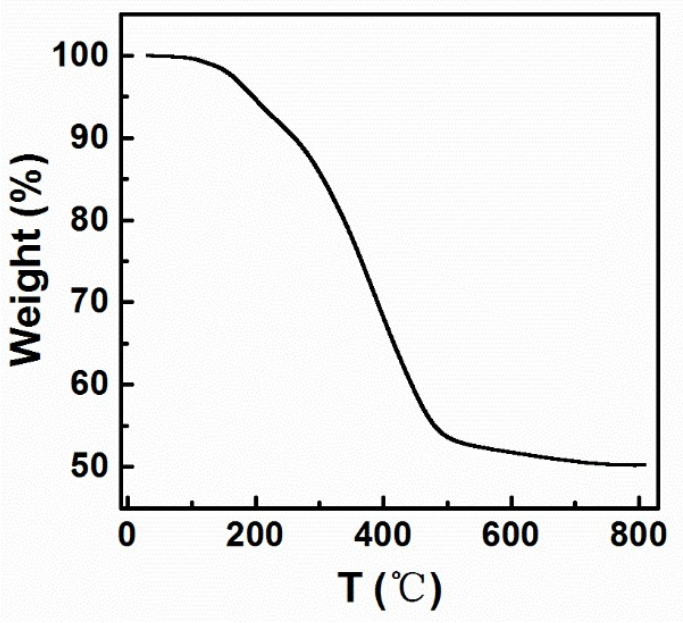

Fig. S4. Thermogravimetic analysis (TGA) of ODA-RGO.

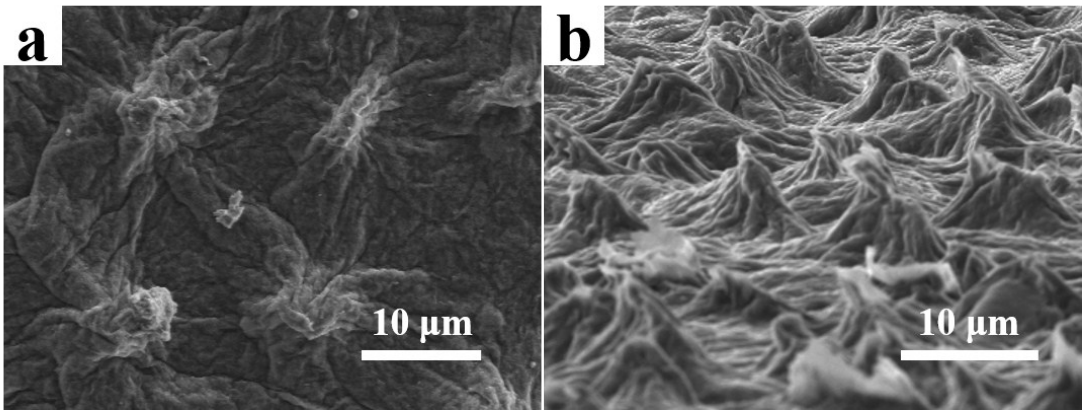

Fig. S5. Typical SEM images of the printed lotus-leaf-like surface after the heating treatment at 150 °C for 24 h, (a) top-view, (b) side-view.

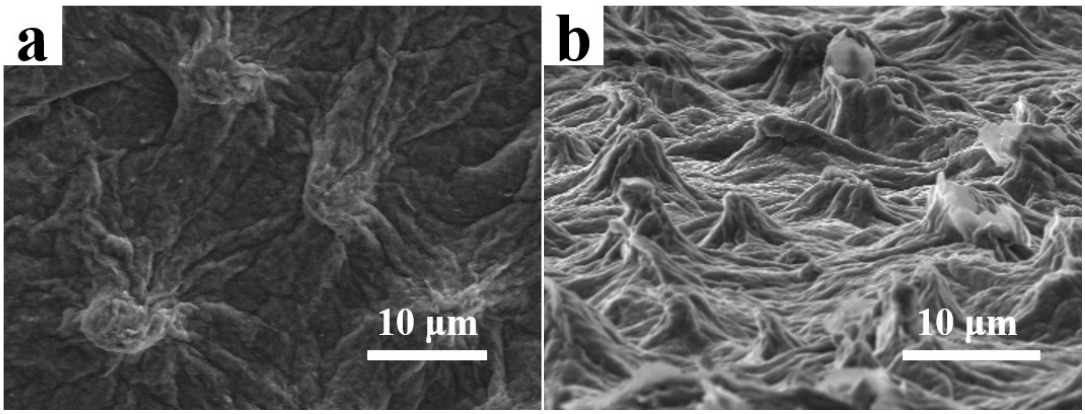

Fig. S6. Typical SEM images of the printed lotus-leaf-like surface after being immersed in the corrosive solution (pH = 0) for 12 h, (a) top-view, (b) section-view.