Electronic Supplementary Information for

Preparation of Superhydrophobic Cauliflower-like Silica Nanospheres with Tunable Water Adhesion

Min Wang\textsuperscript{a,b}, Chen Chen\textsuperscript{a}, Jiping Ma\textsuperscript{a,b} and Jie Xu\textsuperscript{a} *

\textsuperscript{a}State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023 (P.R. China)

\textsuperscript{b}Graduate University of Chinese Academy of Sciences, Beijing 100049 (P.R. China)

*Corresponding author: E-mail: xujie@dicp.ac.cn

---

Fig. S1 TEM images of the silica nanospheres with different amount of phenyl groups. a) Ph-0-TE, b) Ph-5-TE, c) Ph-10-TE, d) Ph-15-TE, e) Ph-20-TE, and f) Ph-20-TM.
Figure S2. 50μL colored water droplet rest on the sticky superhydrophobic materials (a), water droplet was coated with a layer of the sticky materials through rolling over the Ph-20-TM materials powder (b) and the coated water droplet rest on the hydrophilic glass flake (c).