

Supplementary Materials

Supplementary figure captions:

Figure S1. The influence of dosage of APDES on ammonia value of CAHPS.

Figure S2. The effect of dosage of HDTMS on WCA of cotton fabric.

Figure S3. The particle size distribution of silica and GPTMS-SiO₂.

Figure S4. The effect of 20 nm (a), 100 nm (b) and 1 μ m (c) silica on WCA of cotton fabric.

Figure S5. FT-IR spectra of CAHPS, GPTMS-SiO₂ and rSiO₂-CAHPS.

Figure S6. TGA curves of CAHPS and rSiO₂-CAHPS.

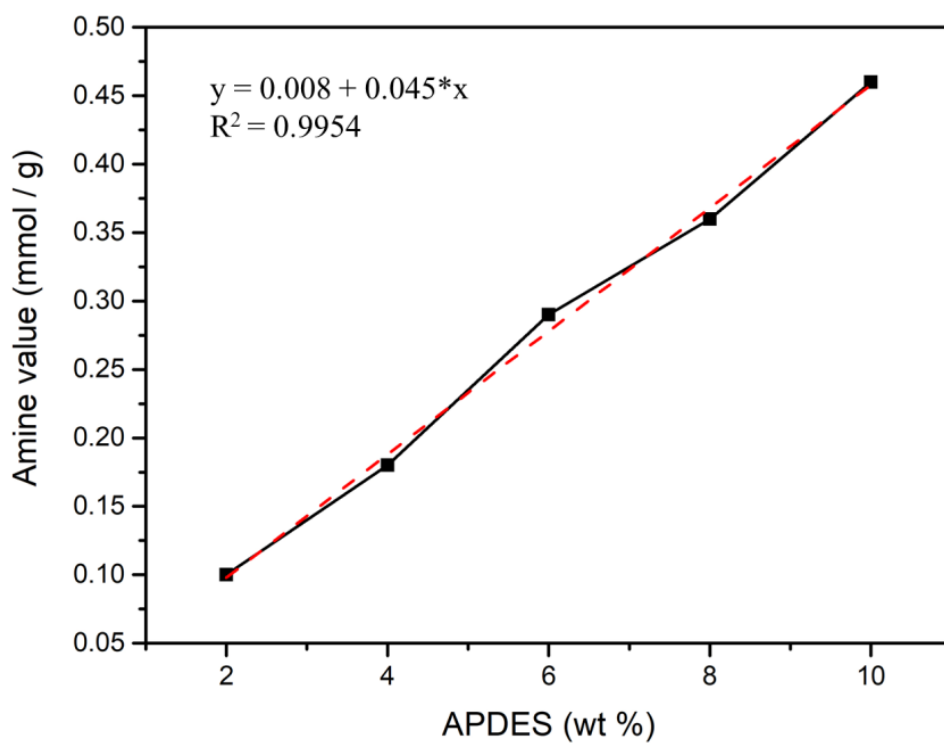


Figure S1. The influence of dosage of APDES on ammonia value of CAHPS.

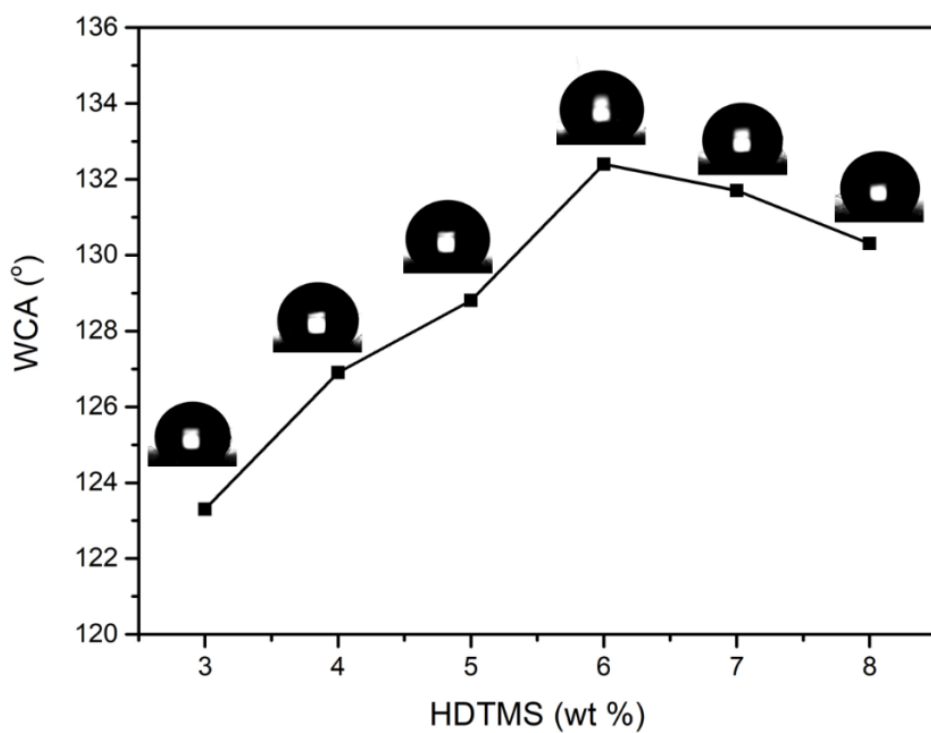


Figure S2. The effect of dosage of HDTMS on WCA of cotton fabric.

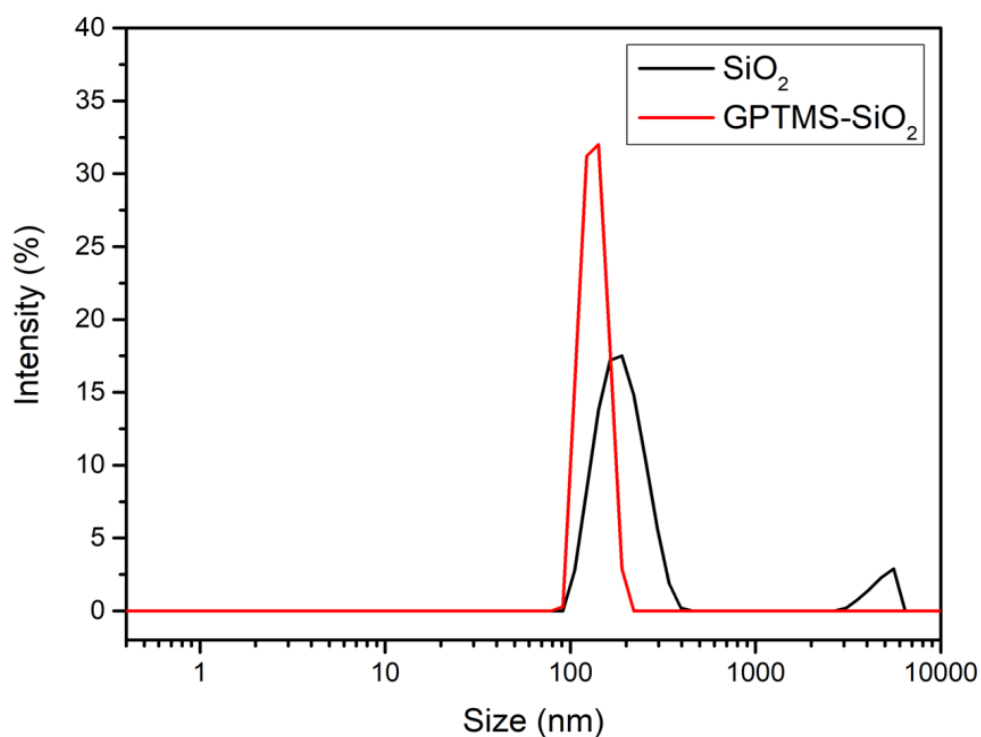


Figure S3. The particle size distribution of silica and GPTMS-SiO₂.

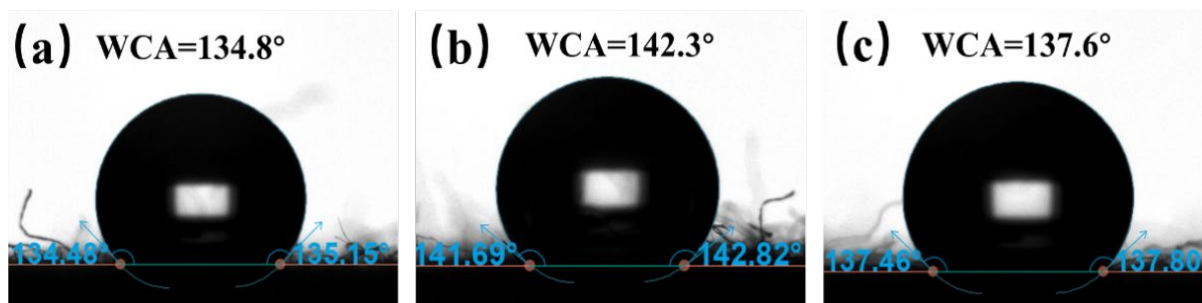


Figure S4. The effect of 20 nm (a), 100 nm (b) and 1 μm (c) silica on WCA of cotton fabric.

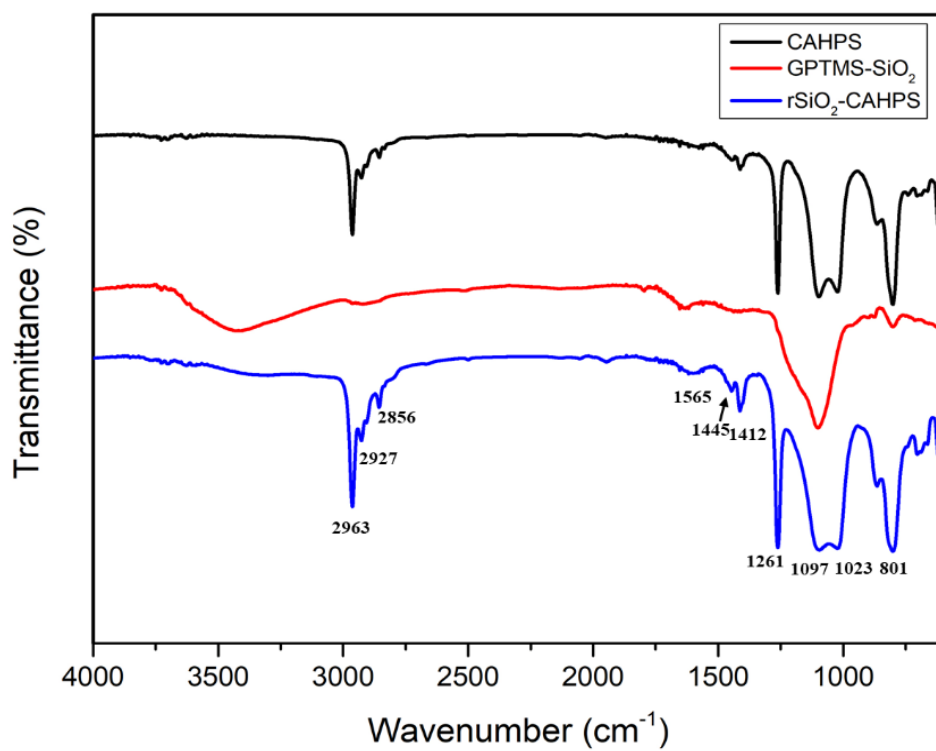


Figure S5. FT-IR spectra of CAHPS, GPTMS-SiO₂ and rSiO₂-CAHPS.

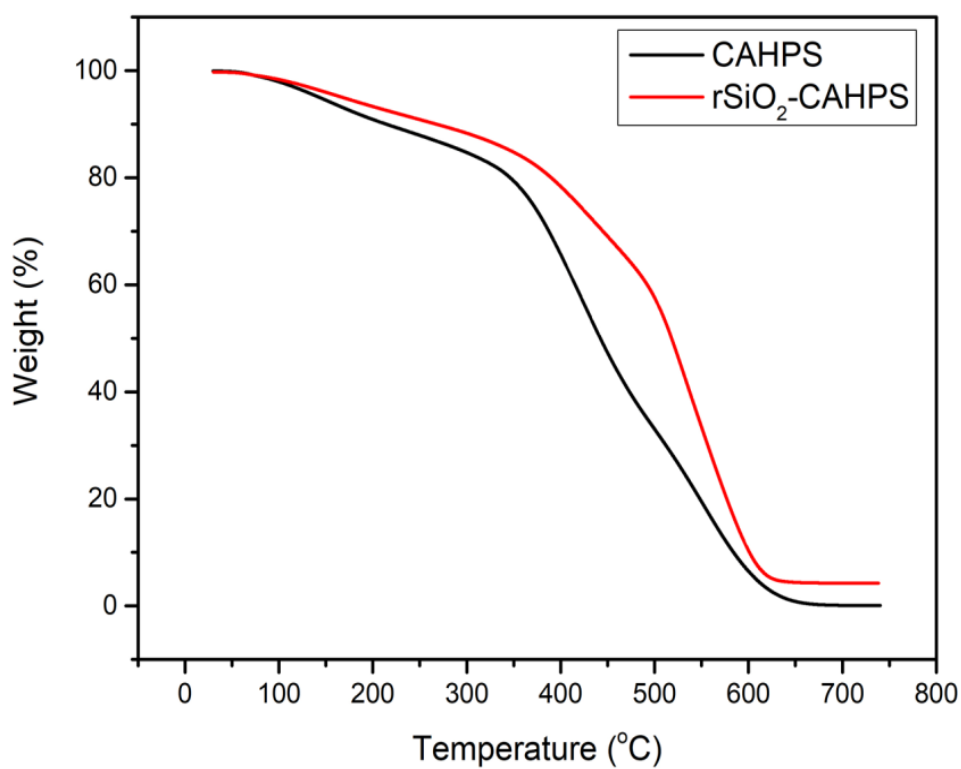


Figure S6. TGA curves of CAHPS and rSiO₂-CAHPS.