

Supplementary Information for:

Fabrication and Photoactivity of a Tunable-Void SiO₂-TiO₂ Core–Shell
Structure on Modified SiO₂ Nanospheres by Grafting an Amphiphilic
Diblock Copolymer Using ARGET ATRP

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Supplementary data:

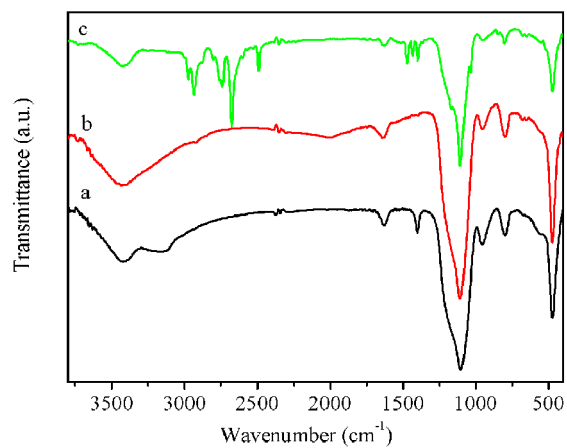


Fig. S1. FT-IR spectra of (a) SiO₂, (b) SiO₂-NH₂, and (c) SiO₂-Br

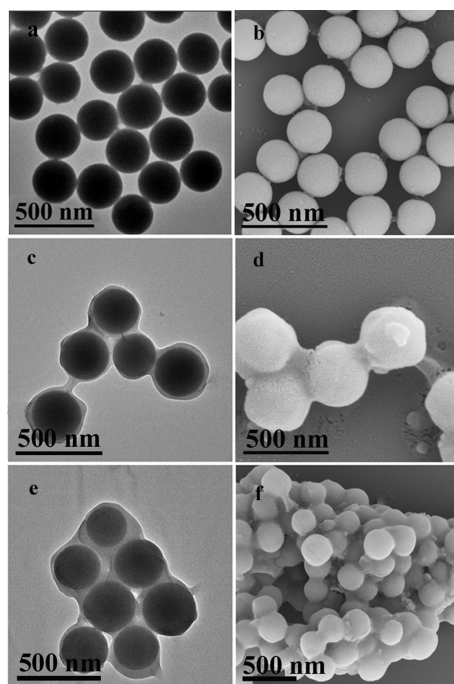


Fig. S2. TEM of (a) SiO₂, (c) SME8, (e) SME2, and FESEM of (b) SiO₂, (d) SME8, (f) SME2.

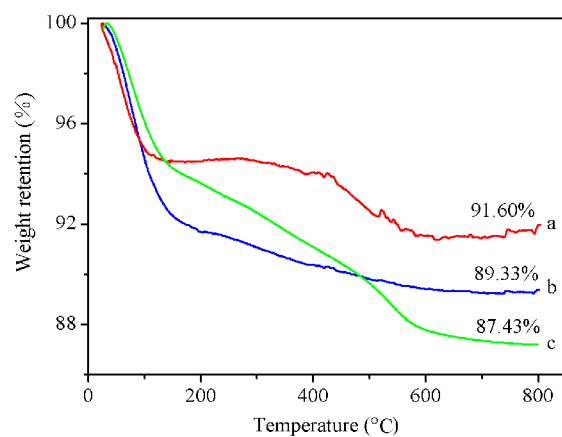


Fig. S3. TGA results of (a) SiO_2 , (b) $\text{SiO}_2\text{-NH}_2$, and (c) $\text{SiO}_2\text{-Br}$.

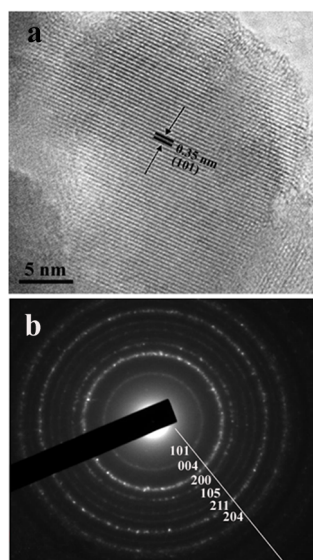


Fig. S4. HRTEM of (a) lattice image of $\text{SiO}_2\text{-TiO}_2$ ($n=5$, 450 °C) and (b) SAED of $\text{SiO}_2\text{-TiO}_2$ ($n=5$, 450 °C).