

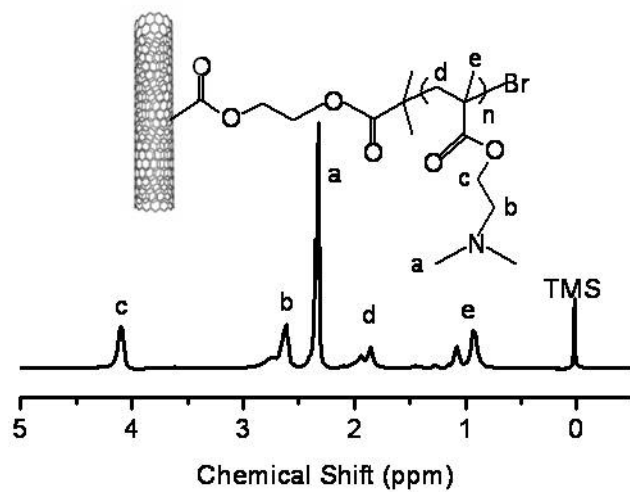
## Supporting information

### Preparation of Hierarchical Worm-like Silica Nanotubes

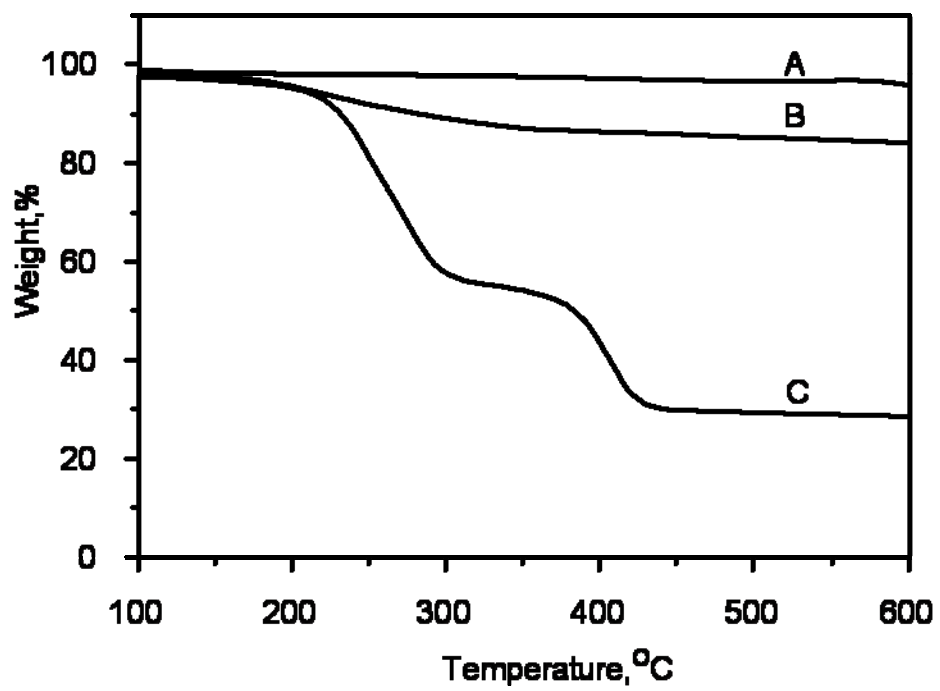
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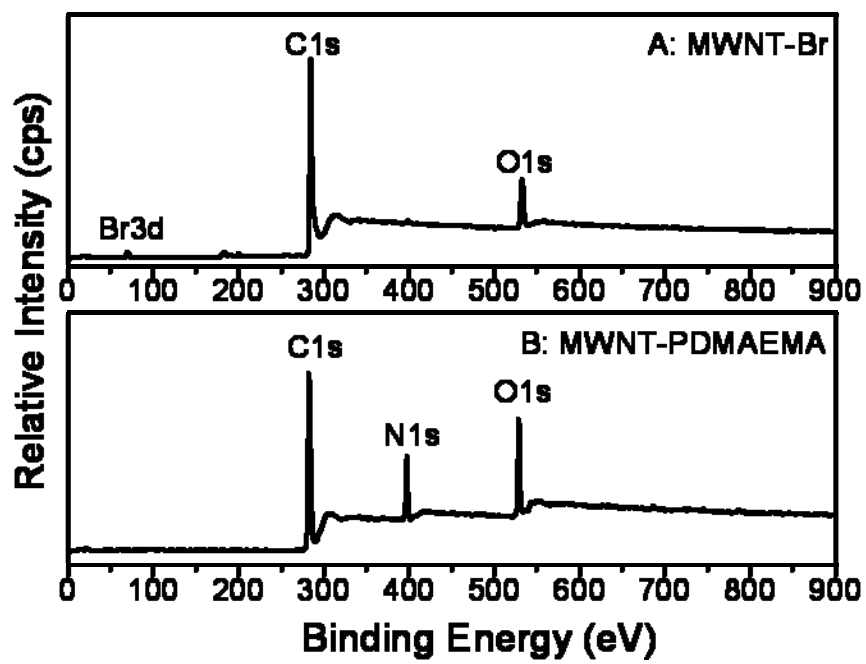
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S2	TGA curves of A: pristine MWNTs; B: MWNT-Br; C: MWNT-g-PDMAEMA. TGA was carried out at a heating rate of 10 °C /min under nitrogen.
S3	XPS spectra of (A) MWNT-Br and (B) MWNT-g-PDMAEMA
S4	The SEM images of the MWNT-silica composites samples obtained from polycondensation of TEOS in aqueous solution with concentration of 12.5 mg/mL at pH=4 for 2 days (A); 4 days (B); and for 7 days, and then calcined at 550°C in air for 10 h (C).
S5	Digital photos of the products, the MWNT-silica composites prepared from polycondensation of TEOS in aqueous solution with concentration of 12.5 mg/mL at pH=4 for 7 days (A); after calcined at 550°C in air for 10h (B).



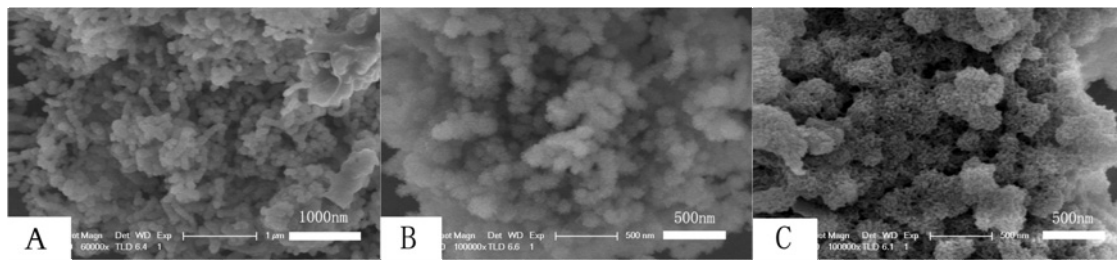
S1



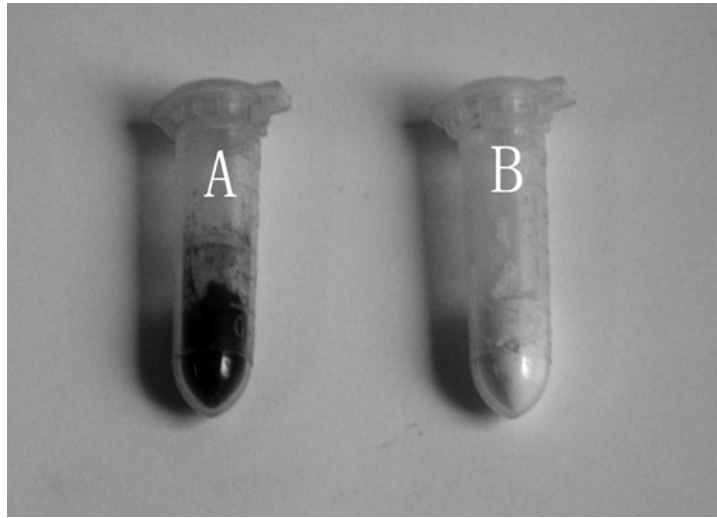
S2



S3



S4



S5