Supporting Information

Facile Preparation of Hollow Amino-functionalized Organosilica Microspheres by Template-free Method

Xiaoli Yang, Ning Zhao, Qingzhu Zhou, Zhen Wang, Chunting Duan, Chao Cai, Xiaoli Zhang and Jian Xu

Beijing National Laboratory for Molecular Sciences, Laboratory of Polymer Physics and Chemistry, Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100190, P. R. China.
Graduate University of Chinese Academic of Sciences, Beijing, 100049, P. R. China.

E-mail: zhaoning@iccas.ac.cn, jxu@iccas.ac.cn

Fig. S1 SEM images of the product of hydrolyzing and condensation of (A) TEOS in ammonia solution and (B) APTES in water.
**Fig. S2** Photos of the asformed yellow and sticky prepolymer. The prepolymer was obtained by filtering the microspheres from the reaction system and then rotary evaporation of the suspension.

**Fig. S3** EDX spectrum of the hollow organosilica microspheres. The unlabeled peak in EDX spectrum is Pt.
Fig. S4 (A) N$_2$ adsorption–desorption isotherm curves of the hollow organosilica microspheres, and (B) the pore width of the hollow spheres by BET method.
Fig. S5 SEM image of hollow organosilica microspheres after calculation at 500 °C.