Supplementary Information

The pores in the shell of the hollow nanoparticles in run 6 were characterized by nitrogen adsorption-desorption isotherms. The results are presented in Fig. S1. Nitrogen adsorption-desorption analysis was conducted at 77 K by Quantachrome Autosorb-1-C (Quantachrome Company).The corresponding pore size distribution was calculated by the NLDFT (Non-Local Density Functional Theory) method, and the specific surface area was BET (Brunauer–Emmett–Teller) surface area.
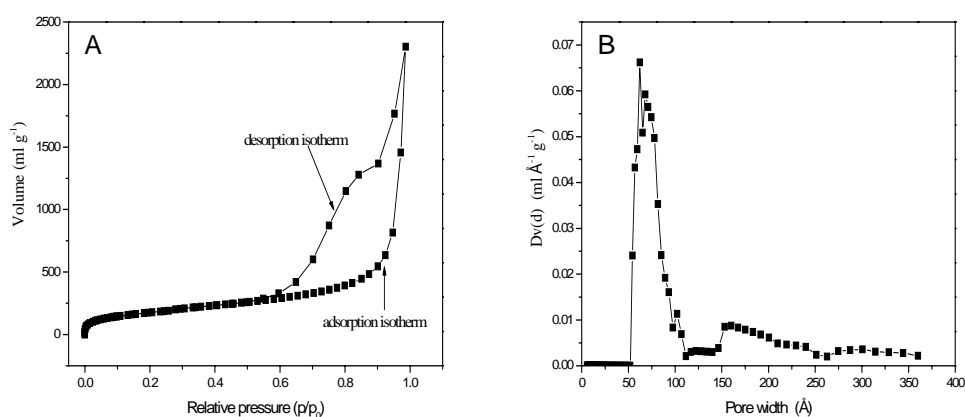
Fig. S1   Nitrogen adsorption–desorption isotherms at 77 K (A) and the size distribution (B) of the pores in nano-shell of the hollow nanoparticles in run 6 with the core/shell ratio of 1/1 and 100 wt% DVB.
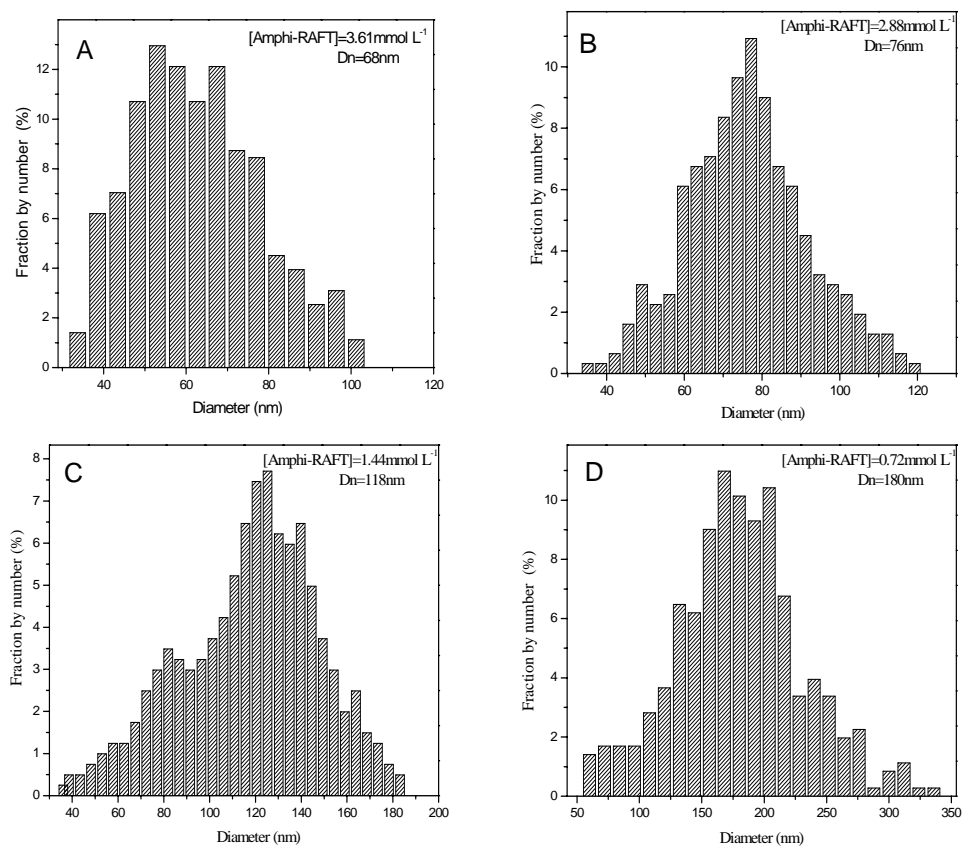
Fig. S2　The size distribution and average diameter (D_n) of the hollow nanoparticles in runs 7-10 with various levels of amphi-RAFT according to TEM images statistics: (A) 3.61 mmol L^{-1}; (B) 2.88 mmol L^{-1}; (C) 1.44 mmol L^{-1}; (D) 0.72 mmol L^{-1}.