Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B


# Supporting Information

## Encapsulating Properties of Reverse-Amphiphilic Core/Shell Polymeric Nanoobjects with Different Shapes

Yuyan Li, Bo Peng, and Yongming Chen*

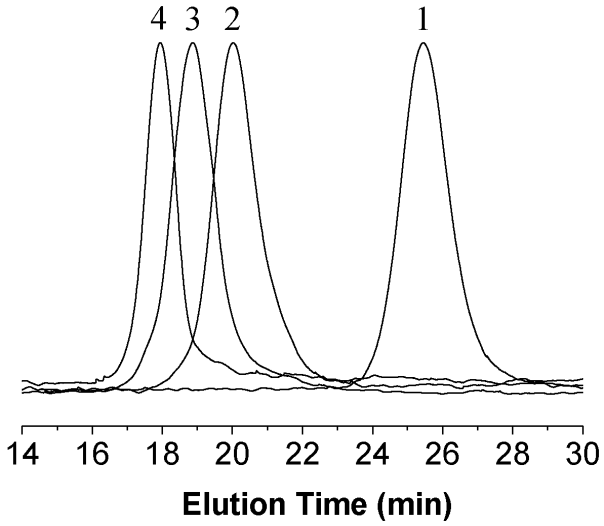


**Figure S1.** SEC traces of (1) PGMA macro-CTA, (2) $PGMA_{119}$-*b*-P*n*$BMA_{90}$, (3) $PGMA_{119}$-*b*-P*n*$BMA_{333}$, and (4) $PGMA_{119}$-*b*-P*n*$BMA_{502}$.

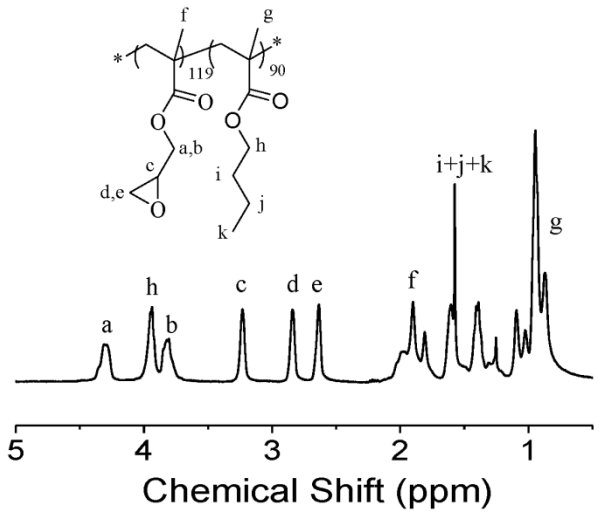


**Figure S2.** $^1$H NMR spectrum of $PGMA_{119}$-*b*-P*n*$BMA_{90}$ in $CDCl_3$.

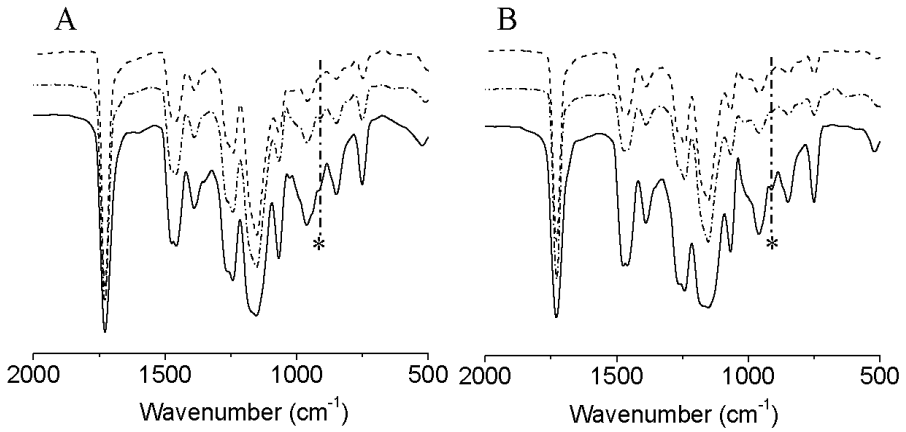


**Figure S3.** FT-IR spectra of shaped nanoobjects made from (A) $PGMA_{119}$-*b*-P*n*$BMA_{333}$ and (B) $PGMA_{119}$-*b*-P*n*$BMA_{502}$ before (solid lines), after crosslinking (dash dot lines) by ammonium hydroxide and further treatment with EDA for 48 h (dash lines). Peak * at 907 $cm^{-1}$ is characteristic of epoxy stretching.

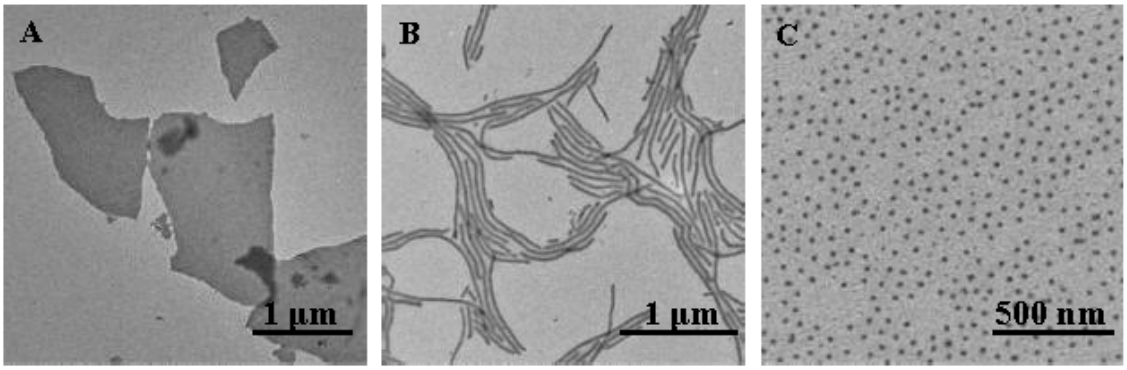


**Figure S4.** TEM images of the PNOs made from (A) $PGMA_{119}$-*b*-P*n*$BMA_{90}$, (B) $PGMA_{119}$-*b*-P*n*$BMA_{333}$ and (C) $PGMA_{119}$-*b*-P*n*$BMA_{502}$ after further treatment with EDA.

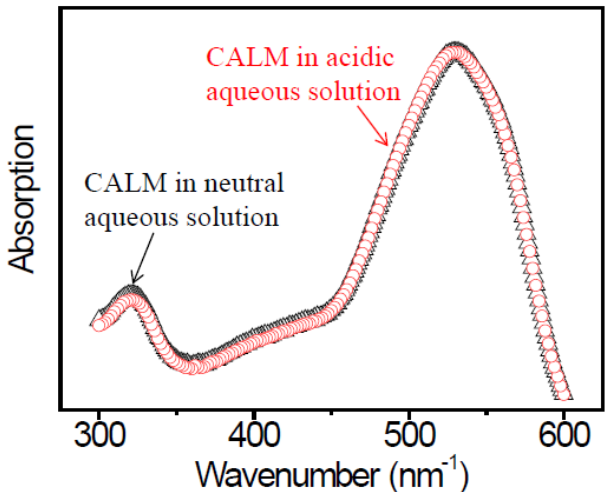


**Figure S5.** The absorption spectra of CALM neutral aqueous solution (-△-) and the CALM acidic aqueous solution (the added amount of HCl was the same as that used in the dye-loading experiments) (-○-).