

Supporting Information

Efficient Synthesis of Narrow-Disperse Brush Polymers via Controlled Ring-Opening Metathesis Polymerization of Macromonomers

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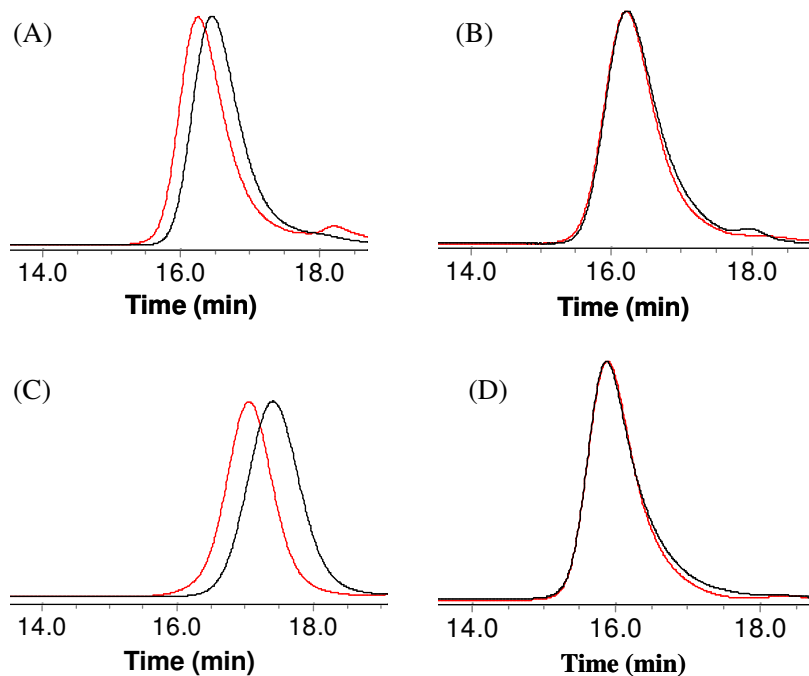


Figure S1. GPC traces of the pre-polymer (black) and its corresponding macromonomer (red): (A) PMA and NB(PMA)3700; (B) *Pt*BA and NB(*Pt*BA)4700; (C) PS and NB(PS)2200; (D) PS and NB(PS)6600.

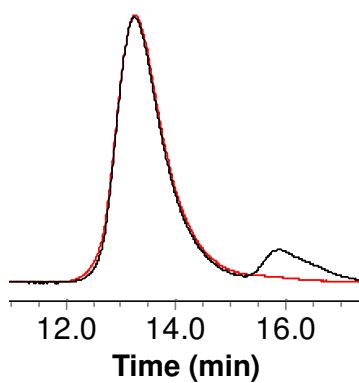


Figure S2. GPC traces of brush polymer PNB-*g*-PMA (Entry 8 in Table 2). Crude (black) and after precipitation into MeOH (red).

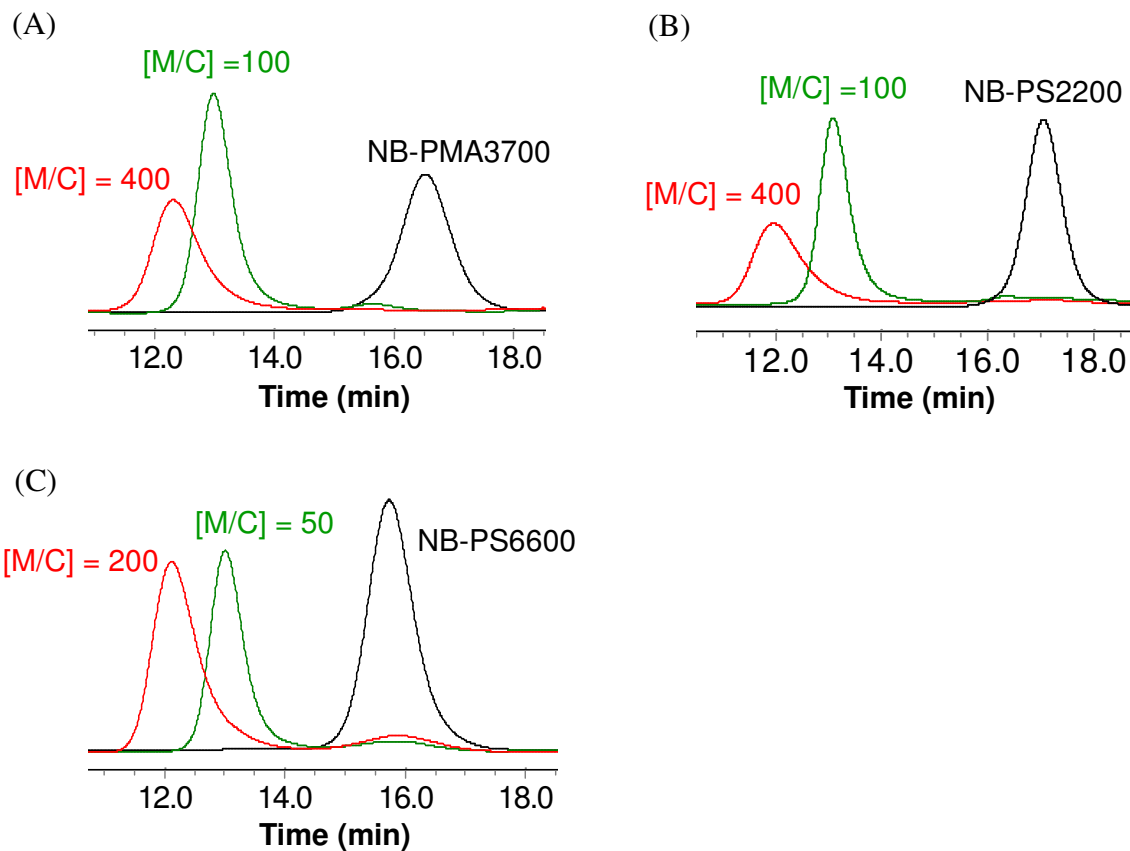
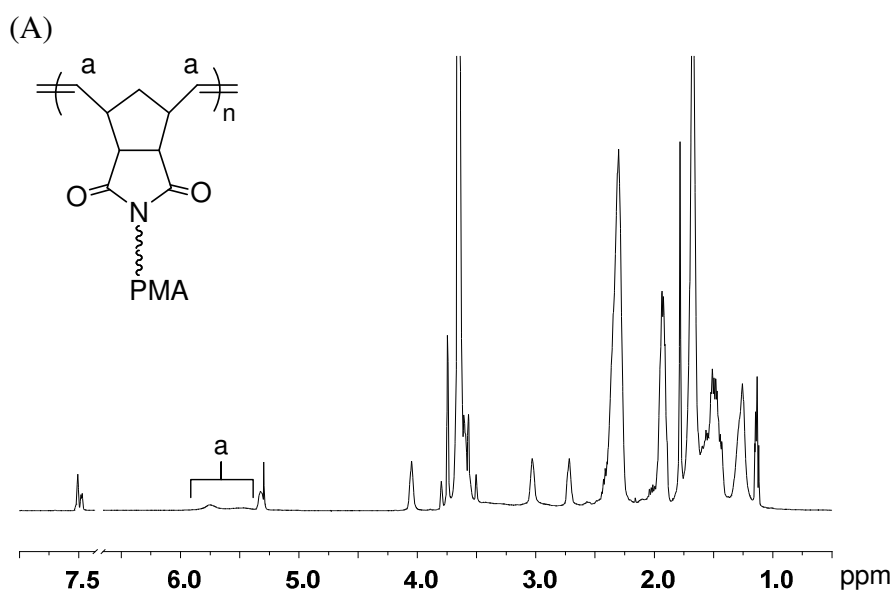
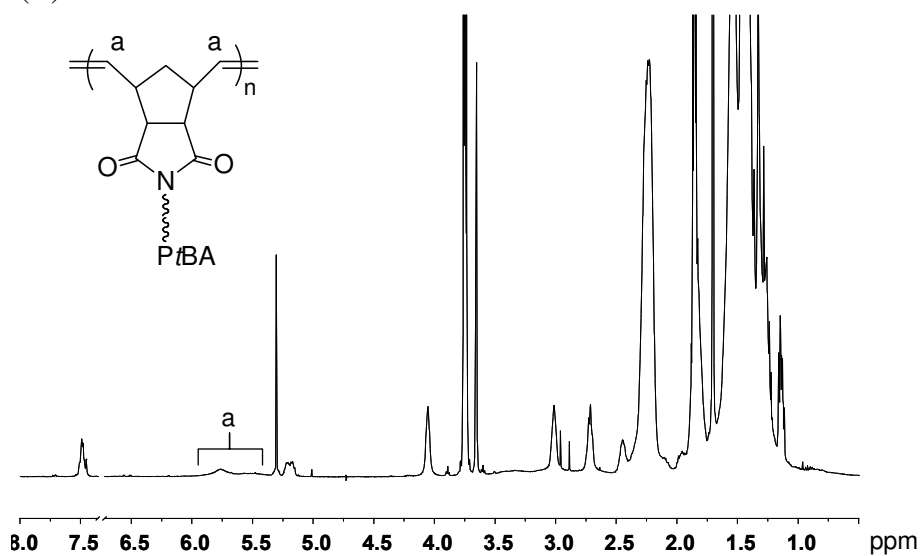


Figure S3. GPC traces of macromonomer (black) and brush polymers (red and green): (A) brush polymer PNB-*g*-PMA; (B) brush polymer PNB-*g*-PS2200; (C) brush polymer PNB-*g*-PS6600.



(B)



(C)

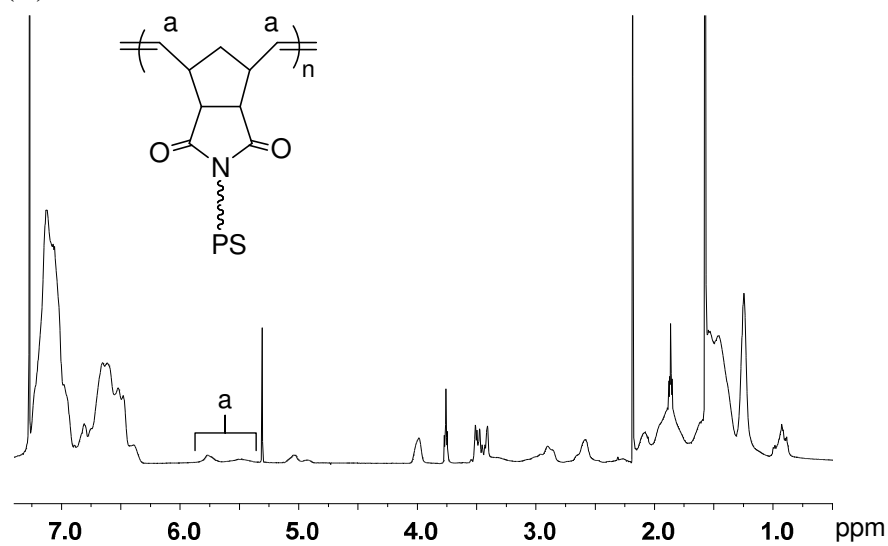


Figure S4. ¹H NMR spectra of brush polymers. (A) PNB-*g*-PMA; (B) PNB-*g*-PtBA; (C) PNB-*g*-PS.

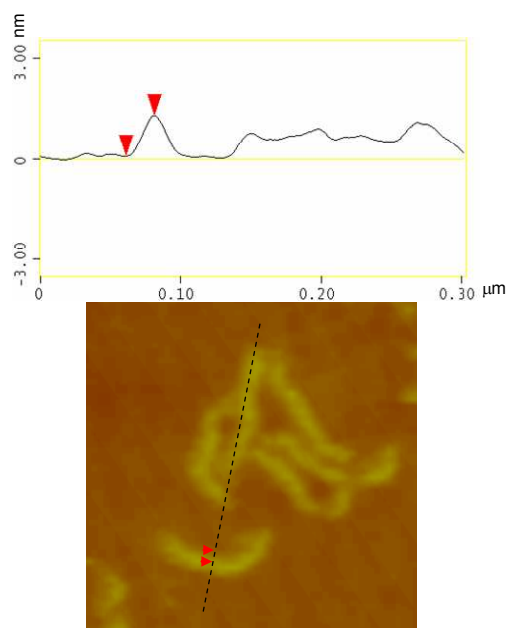


Figure S5. AFM cross-sectional analysis of an individual polymer brush. Topographic image was obtained for brush polymer PNB-*g*-PS on HOPG.