Supplementary Information

**Synthesis of photo-switchable 3-FcAB-modified polymer particles**

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**Fig. S1**  IR spectra of 3-FcAB (A), Monomer (B), Polymer A (C), and Polymer B (D) (a), and their enlarged spectra (b).
**Fig. S2** $^1$H NMR spectra of 3-ferrocenyl-4’-hydroxymethylazobenzene (A), poly(2-bromo acrylate) (B), and **Polymer A** (C) in CDCl$_3$. 
**Fig. S3** The particle size distribution of a SEM image of the re-precipitated **Polymer A** on Au/mica shown in Fig. 1.