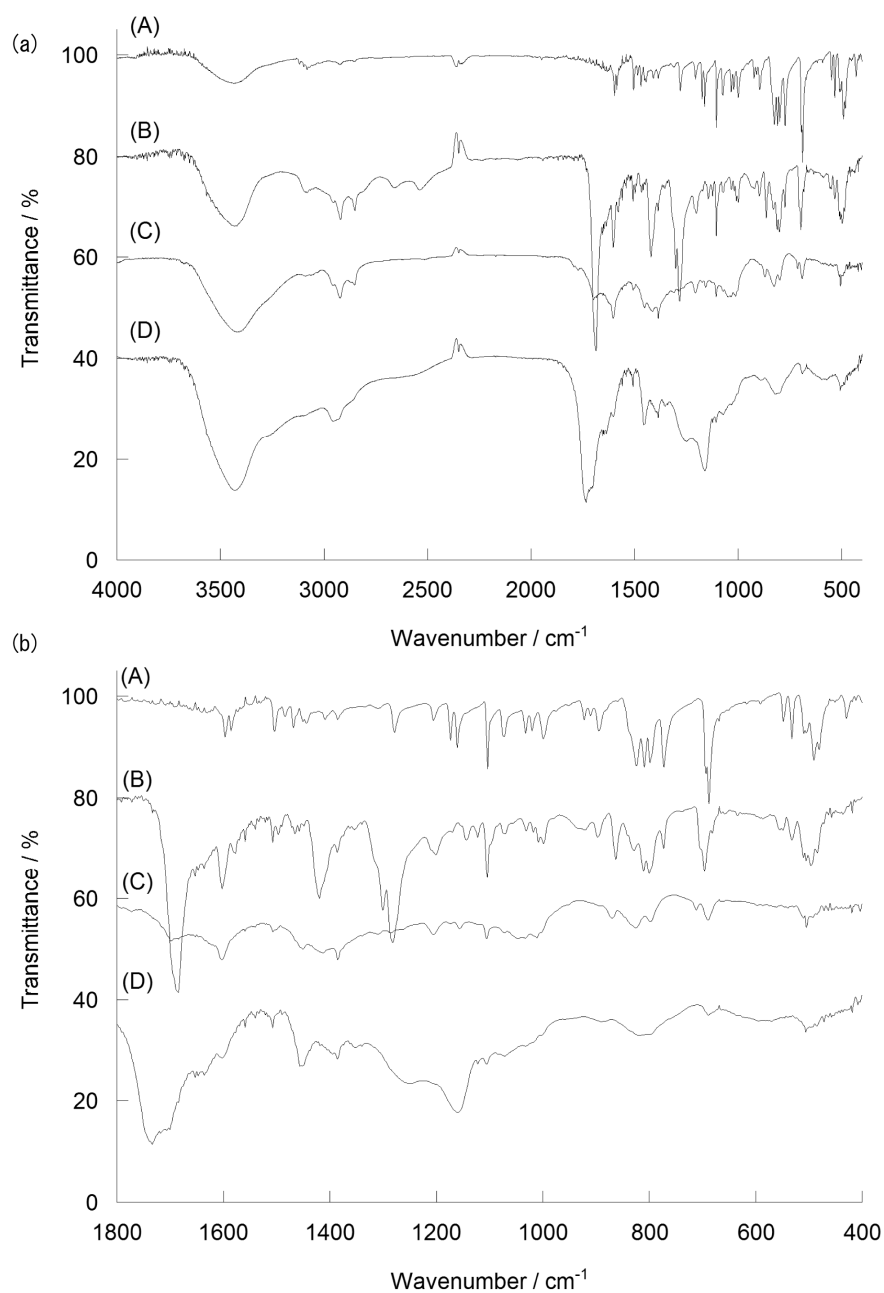


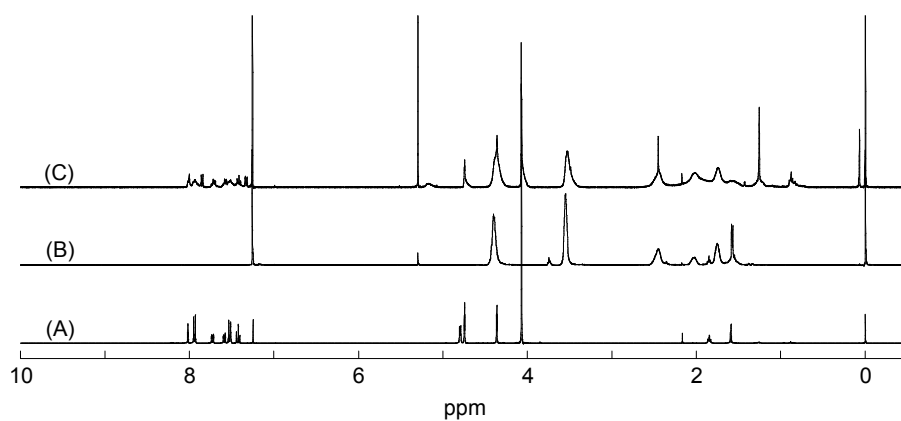
Supplementary Information

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

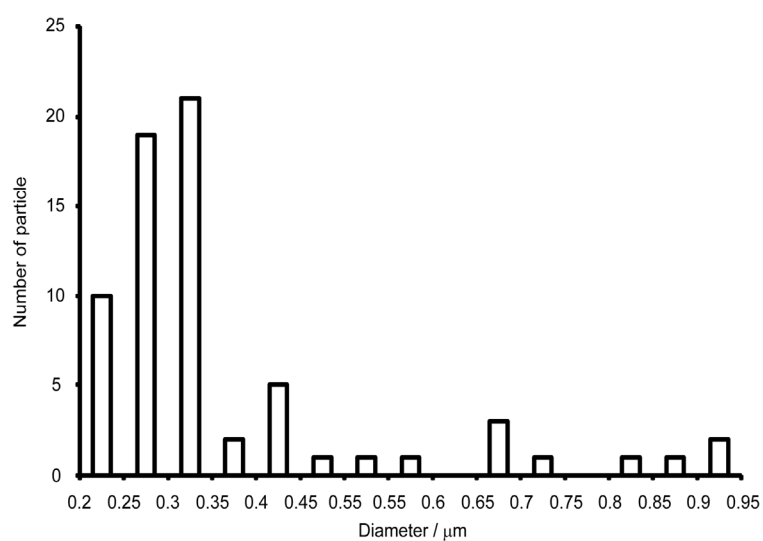
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**Fig. S1** IR spectra of **3-FcAB** (A), **Monomer** (B), **Polymer A** (C), and **Polymer B** (D) (a), and their enlarged spectra (b).



**Fig. S2**  $^1\text{H}$  NMR spectra of 3-ferrocenyl-4'-hydroxymethylazobenzene (A), poly(2-bromo acrylate) (B), and **Polymer A** (C) in  $\text{CDCl}_3$ .



**Fig. S3** The particle size distribution of a SEM image of the re-precipitated **Polymer A** on Au/mica shown in Fig. 1.