Supporting Information

to

Stimuli-responsive self-assembly of one-step prepared supramolecular heterotelechelic polymers

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**Figure S1** $^1$H NMR spectrum of tpy–PS–UPy 6a (400 MHz, CD$_2$Cl$_2$).

**Figure S2** $^1$H NMR spectrum of tpy–PPFS–UPy 7 (400 MHz, CD$_2$Cl$_2$).
Figure S3 ¹H NMR spectra for the monomeric (denoted 6a) and dimeric (denoted [6a]₂) species of tpy~PS~UPy in CD₂Cl₂ (bottom) and CD₂Cl₂-TFA (top) (400 MHz, CD₂Cl₂, 298 K).

Figure S4 SEC traces (RI signal) of 6 and [Ni(6d)₂](PF₆)₂; eluent: DMAc containing 0.005 M NH₄PF₆ (Figure was created from data published in Chem. Commun., 2009, 3386-3388).
Figure S5 Zoom into the low-field region of the $^1$H NMR spectra of $\text{[6f]}_2$ (top) and $\{\text{[(6f)Zn(6f)](PF_6)2}\}_n$ (bottom) (400 MHz, CD$_2$Cl$_2$, 298 K).

Figure S6 $^1$H NMR spectra of the linear supramolecular polymer $\{\text{[(6e)Fe(6e)](PF_6)2}\}_n$ (in CD$_2$Cl$_2$) and the dimer $\text{[Fe(6e)}_2]\text{(PF}_6\text{)}_2$ after the in-situ addition of TFA (400 MHz, CD$_2$Cl$_2$, 298 K).