Fabrication of POSS-embedded supramolecular hyperbranched polymers with multi-responsive morphology transitions

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Fig. S1 $^1$H and $^{13}$C NMR spectra of the Cl-acetal-POSS-(vinyl)$_7$ at CDCl$_3$.

Fig. S2 DLS profile of Azo-acetal-POSS-(CD)$_7$ in DMF at concentration of 1 mg/mL.
Fig. S3 TEM images of the POSS-SSHPs formations at the concentration of (a) 12, (b) 15 and (c) 18 mg/mL in aqueous solutions.

Fig. S4 TEM images of the nanoparticles after various treatment conditions.

Fig. S5 TEM images of the self-assemblies (10 mg/mL) in (a) acetone/H₂O, (b) MeOH/H₂O and (c) DMF/H₂O mixtures after treatment of (A) pH 2.0 for 0.5 h and (B) UV irradiation for 5 min.