Facile Large-Scale Synthesis of Brain-like Mesoporous Silica Nanocomposite via a Selective Etching Process

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Figure S1. The average particle size distribution of LPASN-1, LPASN-2 and LPASN-3.



Figure S2. Wide-angle XRD pattern of LPASN-2/LPASN-3/LPASN-4.



Figure S3. UV-vis spectra showing the gradual reduction of 4-NP over LPASN-PNIPAM conditions. 16.7 mL of 0.18 mmol L⁻¹ 4-NP was added to a mixture of 184 mg of NaBH₄ dispersed in 12.3 mL of ultrapure water. Then, Au@SiO₂ yolk-shell structured nanocomposites (8 mg/L) were added into the above mixture under mixture. The mixture was kept stirring and we took 2 ml of the mixture by pipette every 4 min. UV-vis spectra showing the gradual reduction of 4-NP over LPASN-PNIPAM at 15°C (a) and 33 °C (b).