Supplementary Material (ESI) for Nanoscale

Supporting Information

Gold Nanocages Covered with Thermally-responsive Polymers for Controlled Release by High-intensity Focused Ultrasound**

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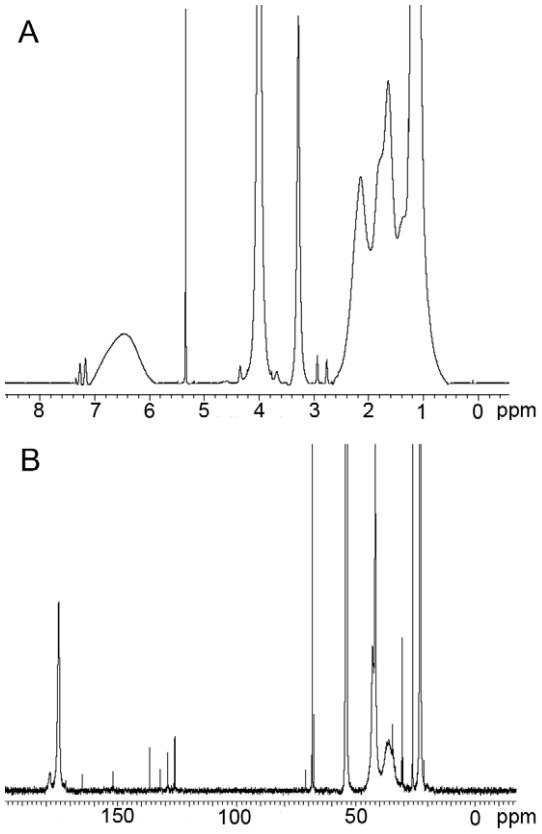

Figure S1. (A) ^{1}H-NMR and (B) quantitative ^{13}C NMR spectra of the as-prepared poly(NIPAAm-*co*-AAm) copolymers.

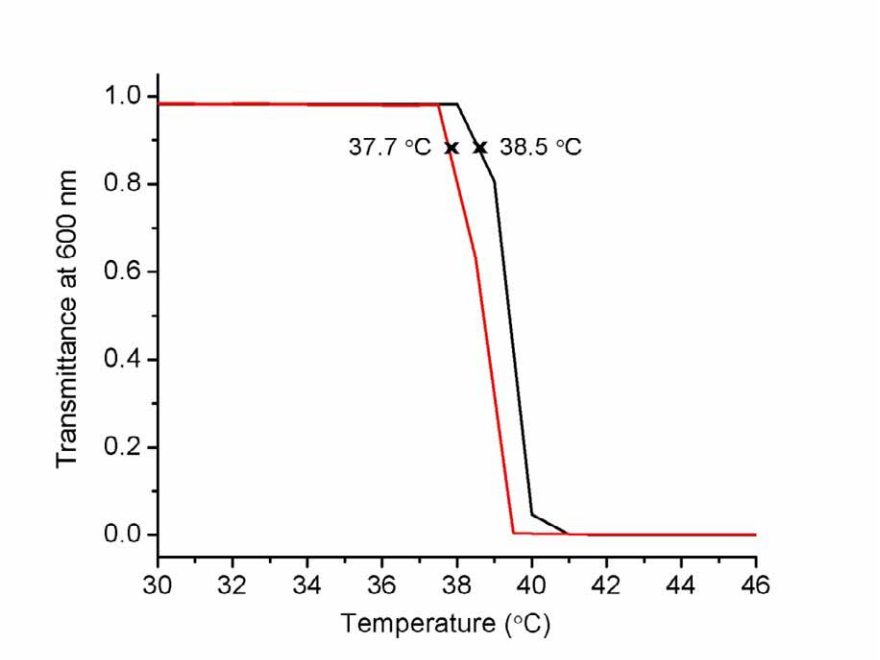

Figure S2. The LCST measured spectrosphotometrically, with the solution being heated at a rate of 1.0 °C/min. The measurement was conducted in water (black line) and PBS buffer solution (red line), respectively. The temperature at 90% light transmittance (at 600 nm) of the original polymer solution was defined as the LCST.

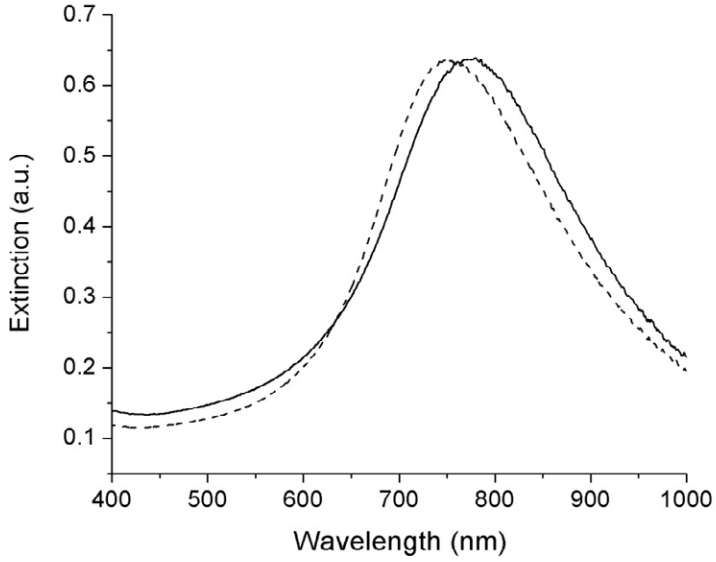

Figure S3. UV-vis extinction spectra of an aqueous suspension of Au nanocages before (dashed line) and after functionalization with poly(NIPAAm-*co*-AAm) copolymers (solid line).

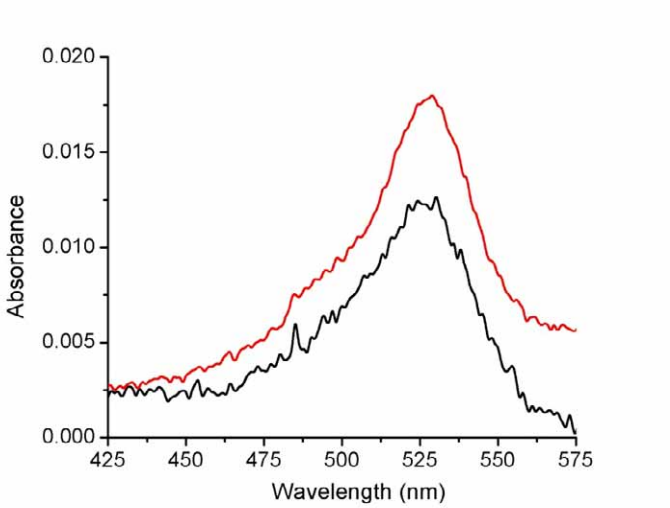

Figure S4. UV-vis absorption spectra taken from the supernatant immediately after preparation of the dye-loaded nanocages (black line) and after the sample had been heated at 37 °C for 48 h (red line).

Figure S5. Photograph showing the white spot, indicated by the white arrow, on the bottom surface of the petri dish after HIFU irradiation at a power of 15 W for 5 seconds.