

Supporting Information

Iron-loaded magnetic nanocapsules for pH-triggered drug release and dual MRI imaging

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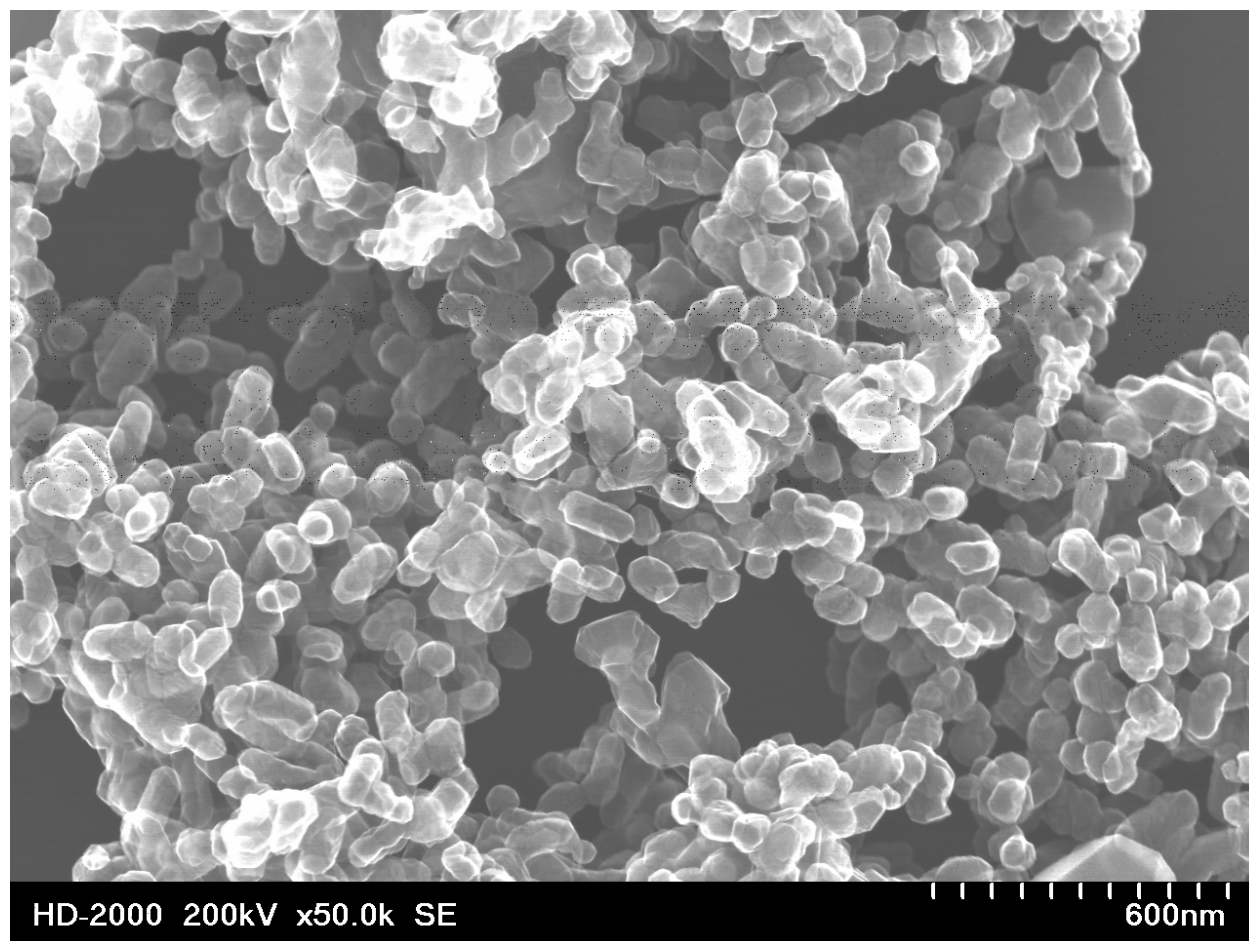


Figure S1. SEM images of iron particle aggregation in the absence of silica coating.

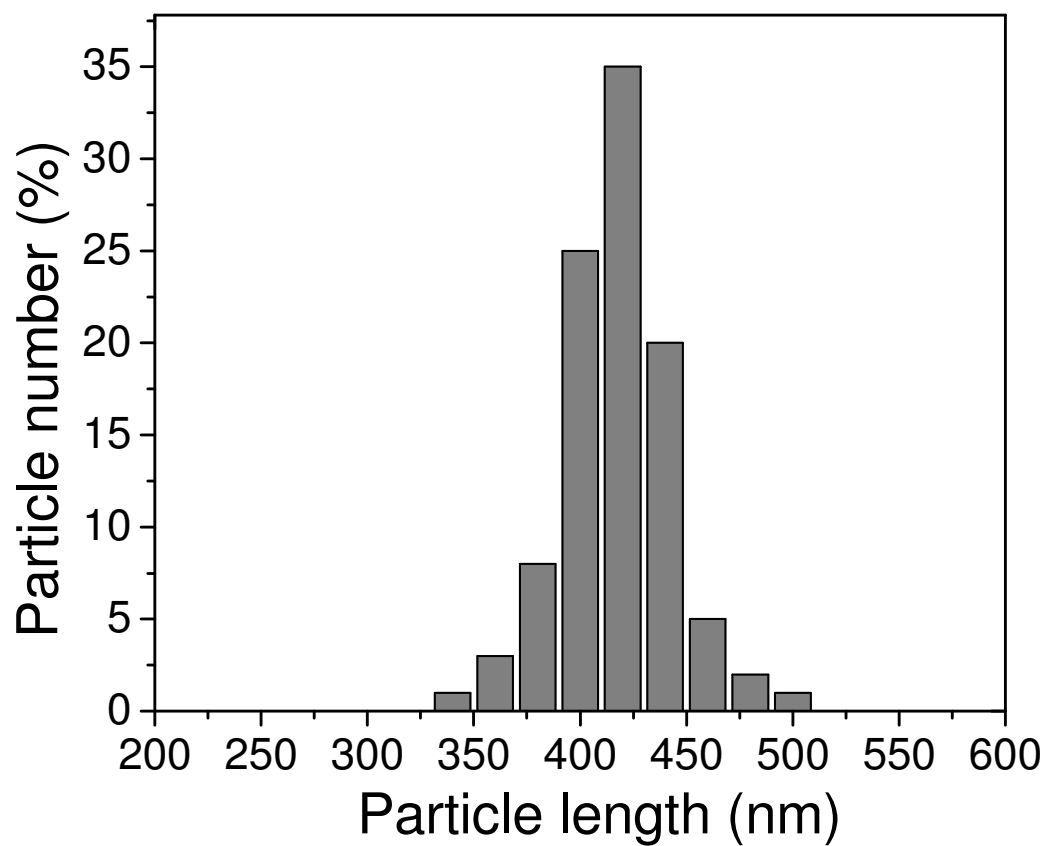


Figure S2. Size distribution histogram for PLL/AL-coated Fe@SiO₂.

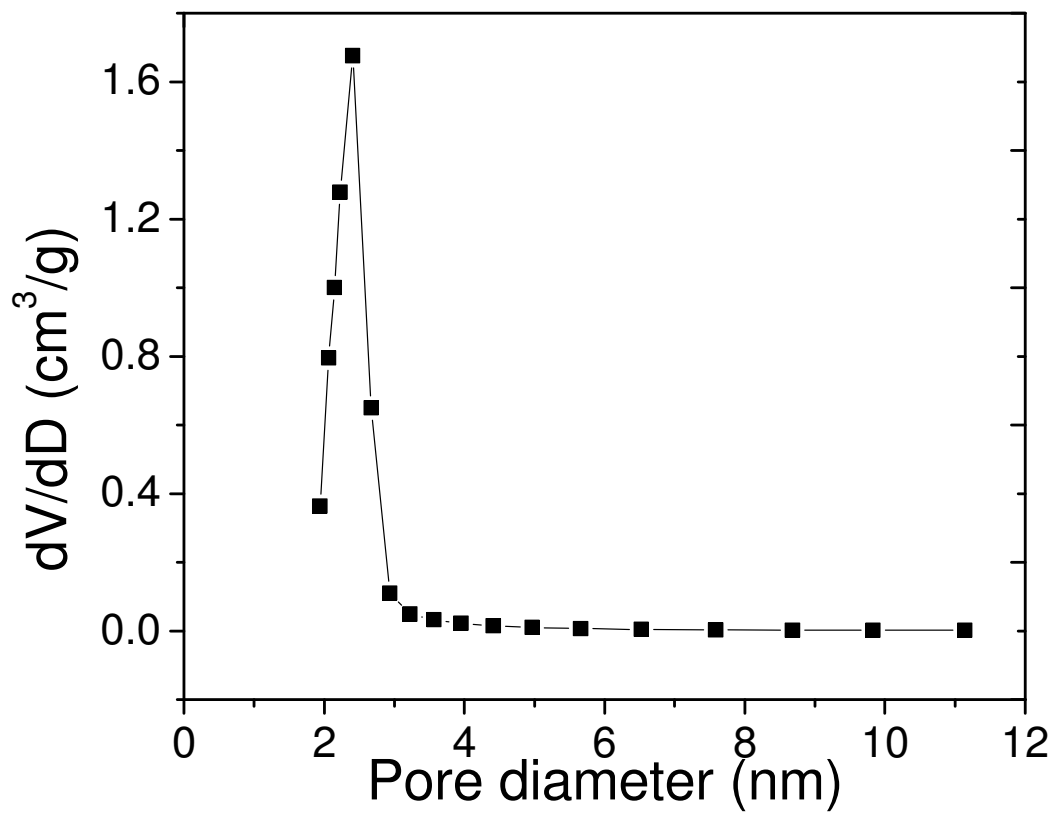


Figure S3. Pore size distribution curve obtained using the Barret–Joner–Halenda (BJH) method.

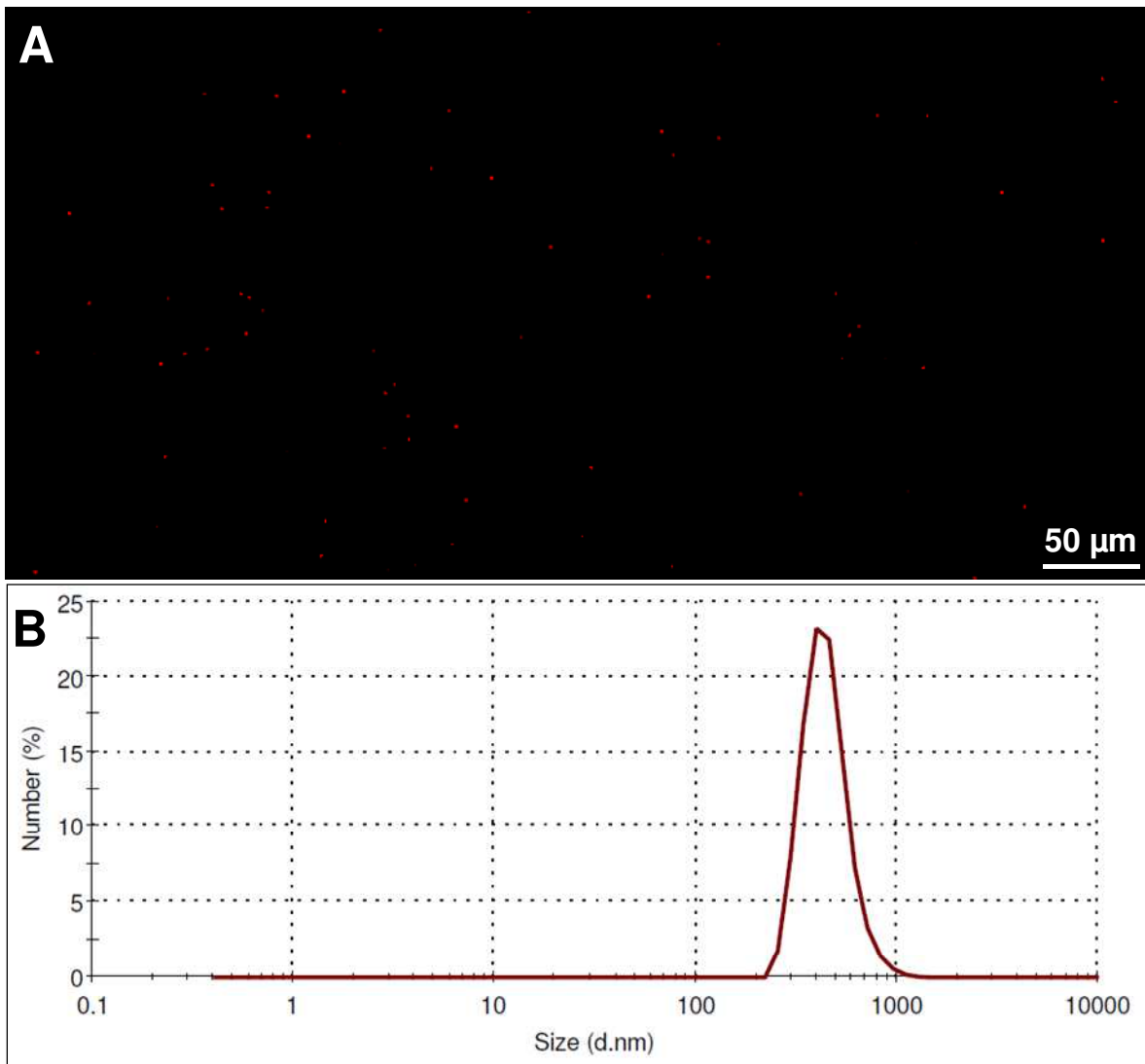


Figure S4. (A) Fluorescent image of (Fe/DOX/Gd-DTPA) $@\text{SiO}_2@\text{AL}/\text{PLL}$ nanocapsules in solution. (B) Dynamic light scattering measurement of (Fe/DOX/Gd-DTPA) $@\text{SiO}_2@\text{AL}/\text{PLL}$ nanocapsules (average hydrodynamic diameter 453 nm).

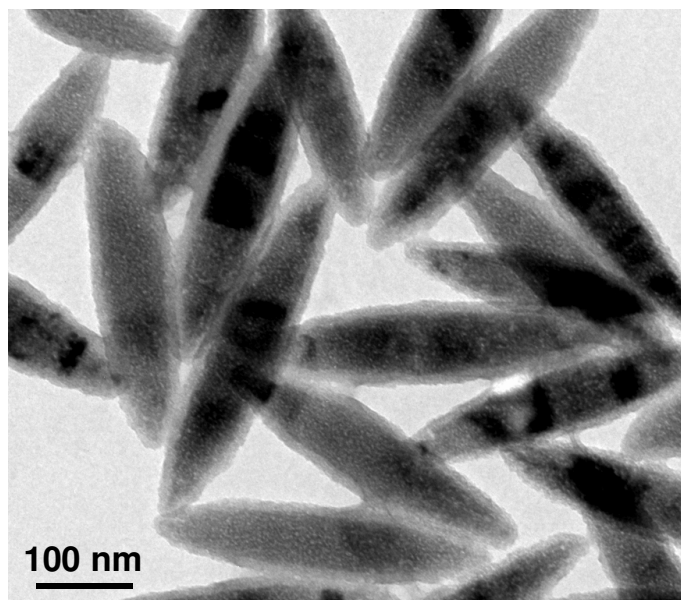


Figure S5. TEM image of (Fe/DOX/Gd-DTPA)@SiO₂@AL/PLL nanocapsules with a solid iron core (no hollow cavity).

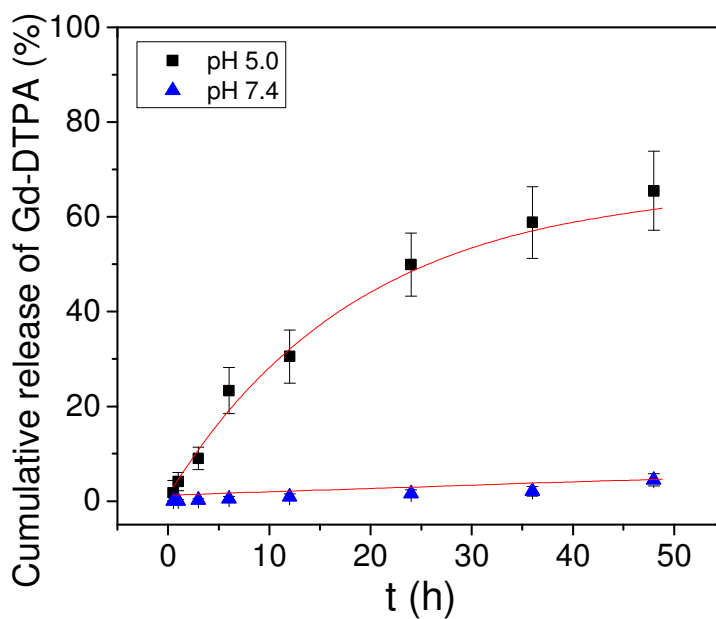


Figure S6. pH-dependent release profile of Gd-DTPA from (Fe/DOX/Gd-DTPA)@SiO₂@AL/PLL nanocapsules.