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Supplementary Material



Fig. S1¹H NMR (DMSO, 400 MHz) spectrum of RB-Cl.



Fig. S2 ESI-MS spectrum of RB-Cl.



Fig. S3 ¹H NMR (DMSO, 400 MHz) spectrum of RB-Si.



Fig. S4 The particle size histogram from DLS of RB-Fe₃O₄@SiO₂.



Fig. S5 Fluorescence intensity of **RB-Fe₃O₄** (*a*)**SiO**₂ at various pH values in aqueous solution. Different pH valves were achieved by varying the amount of 0.1 M NaOH/HCl added to the solution. $\lambda_{ex} = 535$ nm, $\lambda_{em} = 582$ nm.