

Bio-inspired Formation of 3D Hierarchical CoFe₂O₄ Porous Microspheres for Magnetic Controlled Drug Release

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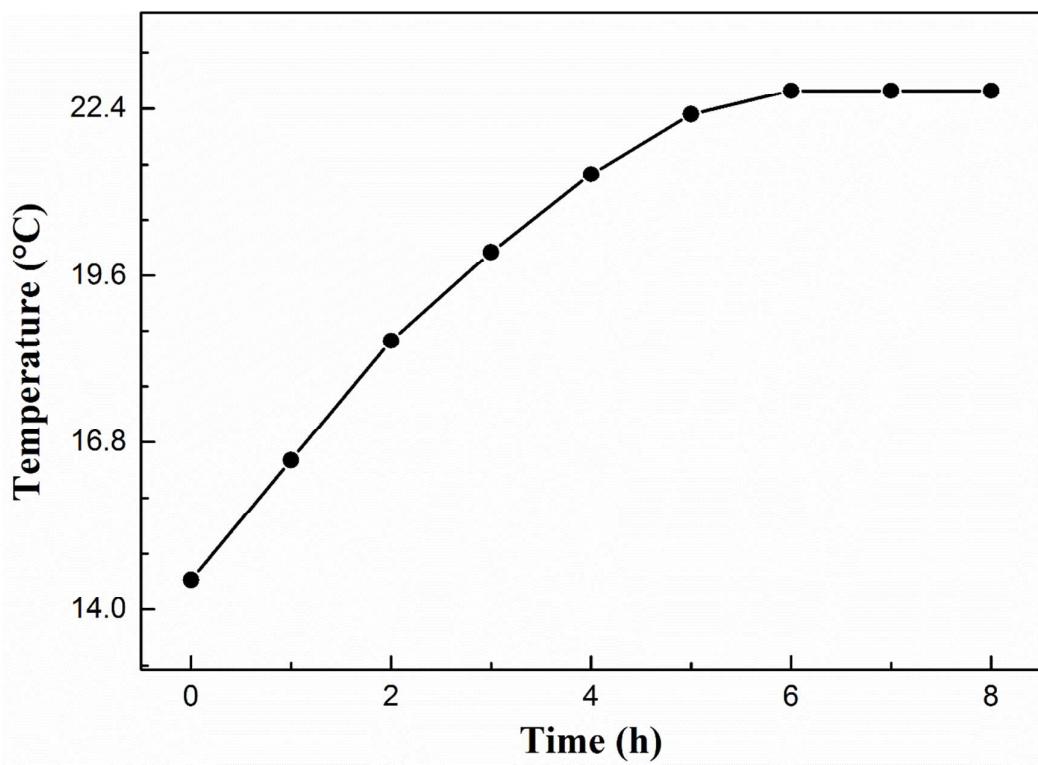


Figure S1 Heating curves of the CoFe_2O_4 hollow porous microspheres suspension under alternating magnetic field excitation (200Hz, 7.5A).

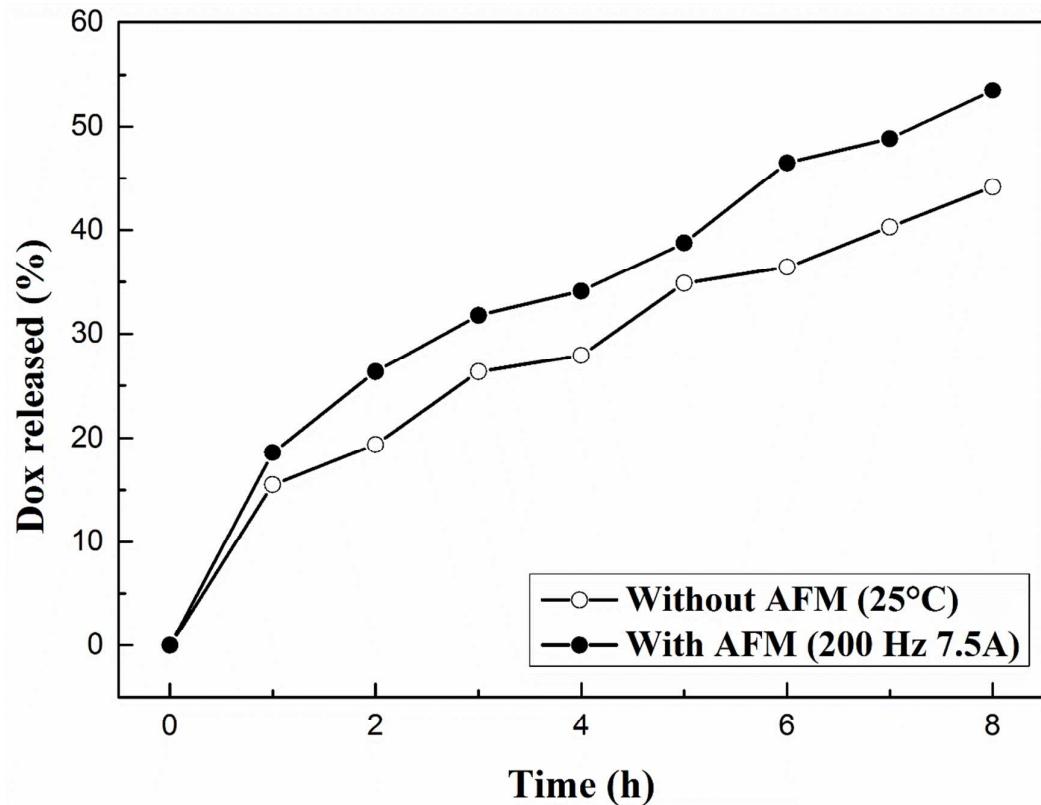


Figure S2 DOX release curve, with alternating current magnetic field (200Hz, 7.5A) and with simply heated (25 °C).

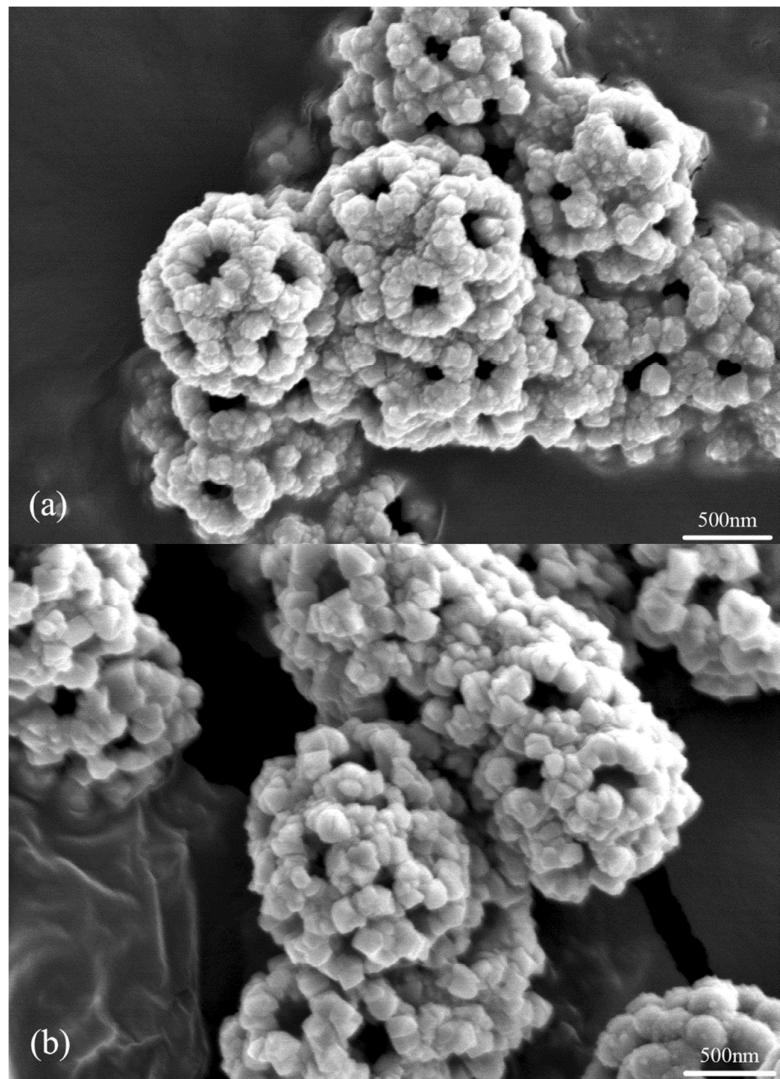


Figure S3 SEM images of CoFe_2O_4 microspheres before (a) and after (b) drug release.

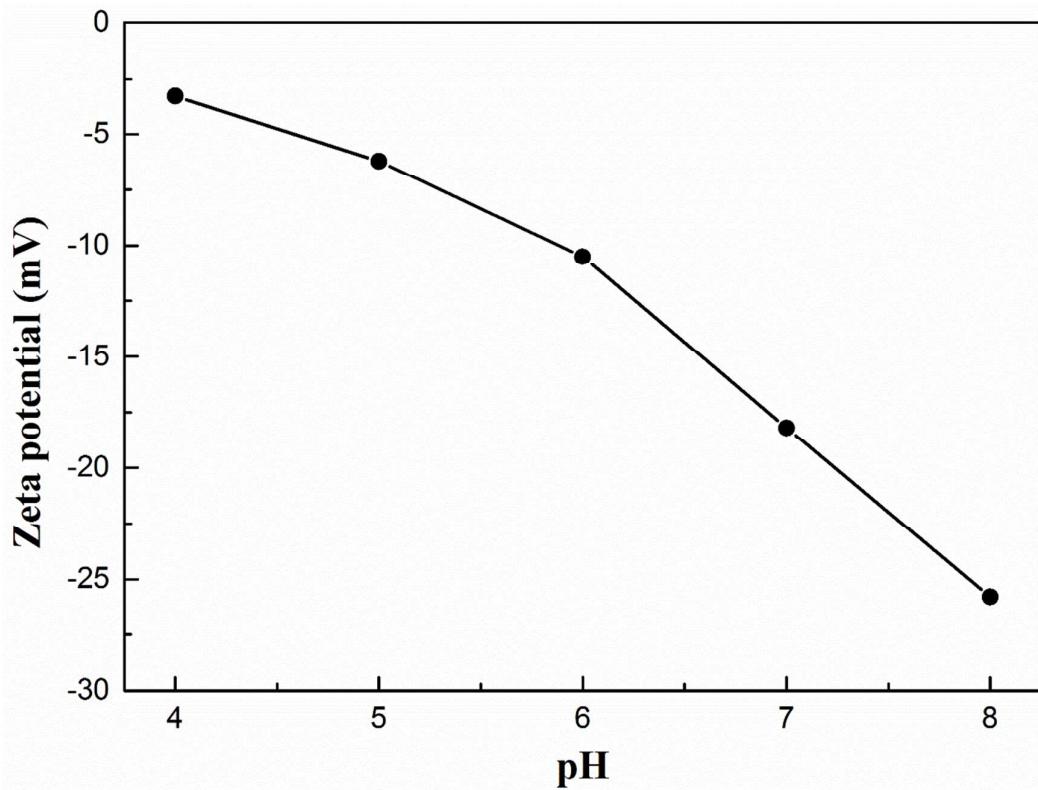


Figure S4 Zeta potential of CoFe₂O₄ microspheres with different pH values.

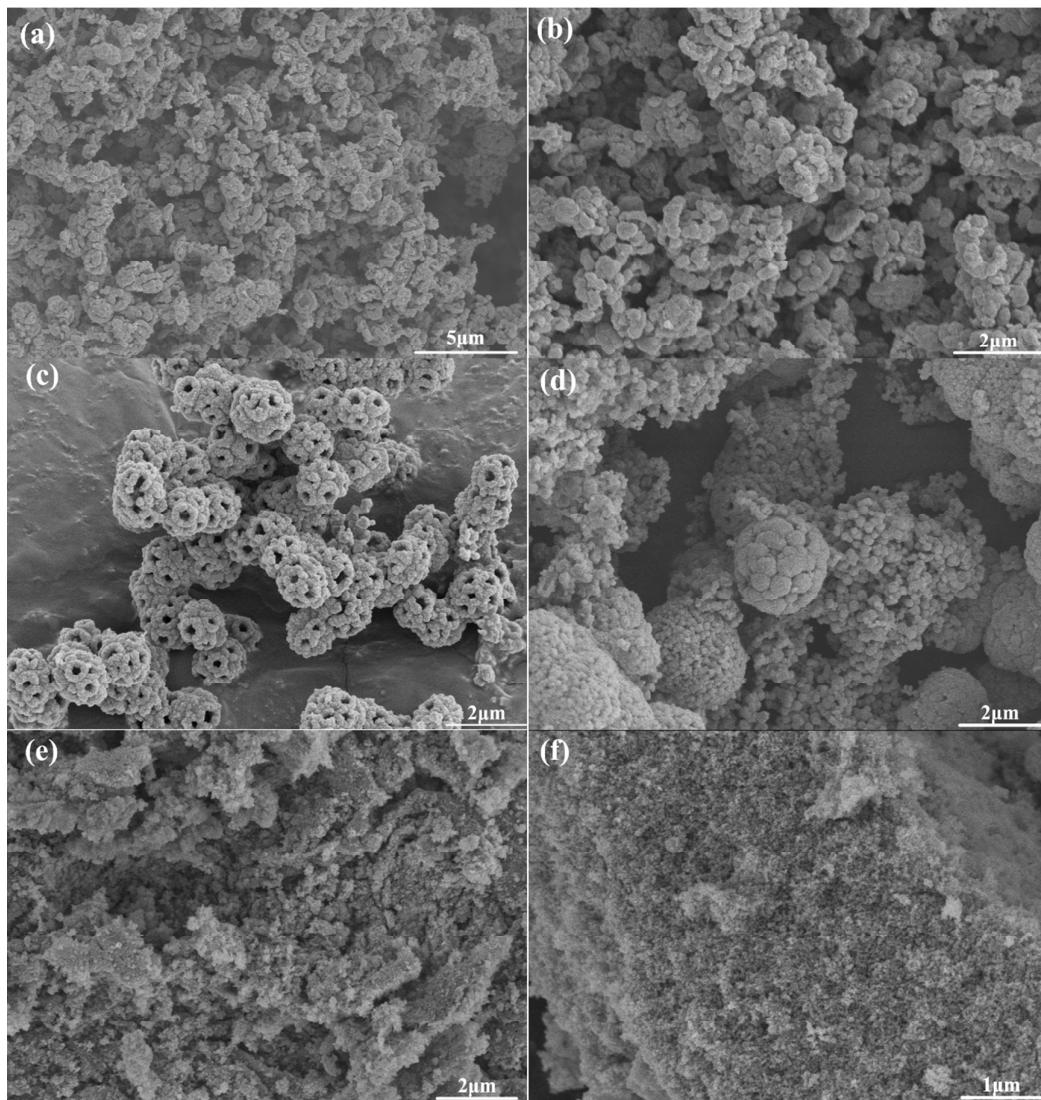


Figure S5 CoFe₂O₄ morphology obtained with different pH values: (a) 2, (b) 4, (c) 5, (d) 6, (e) 8, (f) 10.

Table S1 the loading efficiency compared with other magnetic nanoparticles

materials	DOX loading efficiency (mg/g)	reference
Fe ₃ O ₄ @SiO ₂ spheres	38.3	9
Fe ₃ O ₄ @SiO ₂ spheres	30.5	10
Fe ₃ O ₄ @SiO ₂ spheres	97, 385	11
M-MSN-P(NIPAM- <i>co</i> -MAA)	10.87-260.89	32
ZnO@SiO ₂ spheres	40	33
CoFe ₂ O ₄ spheres	118.1	This work