

Electronic Supplementary Information

Fe₃O₄@mSiO₂-FA-CuS-PEG Nanocomposites for Magnetic Resonance Imaging and Targeted Chemo-photothermal Synergistic Therapy of Cancer Cells

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1. Supplementary Figures

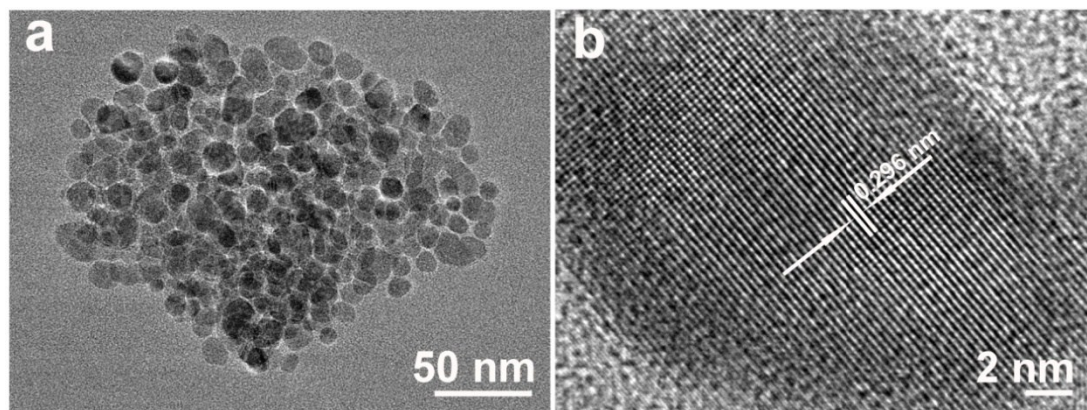


Fig. S1 (a) Low-magnification TEM and (b) HRTEM images of synthesized Fe₃O₄ nanocrystals.

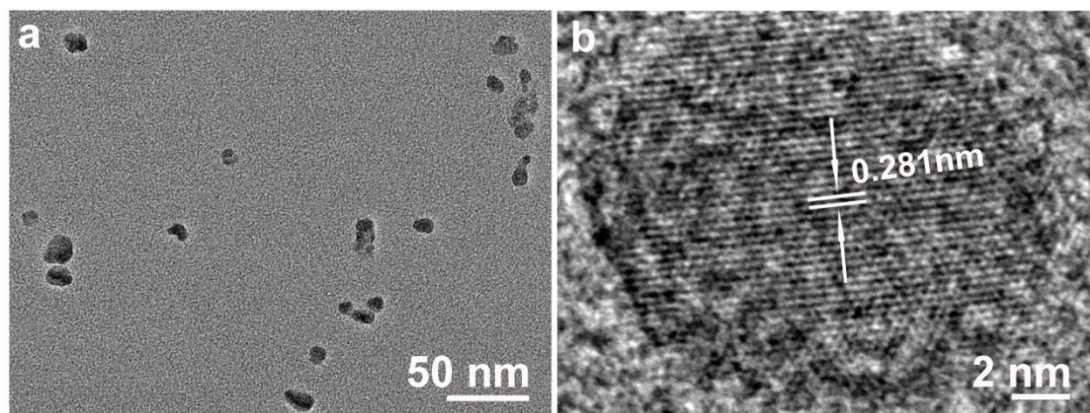


Fig. S2 (a) Low-magnification TEM and (b) HRTEM images of synthesized CuS nanocrystals.

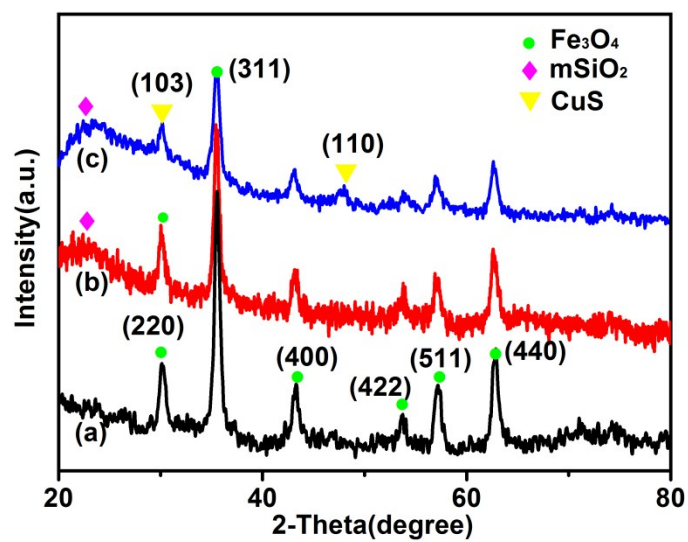


Fig. S3 PXRD patterns of (a) Fe_3O_4 nanocrystals, (b) $\text{Fe}_3\text{O}_4@\text{mSiO}_2$ nanoparticles and (c) $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-FA-CuS-PEG}$ nanocomposites.

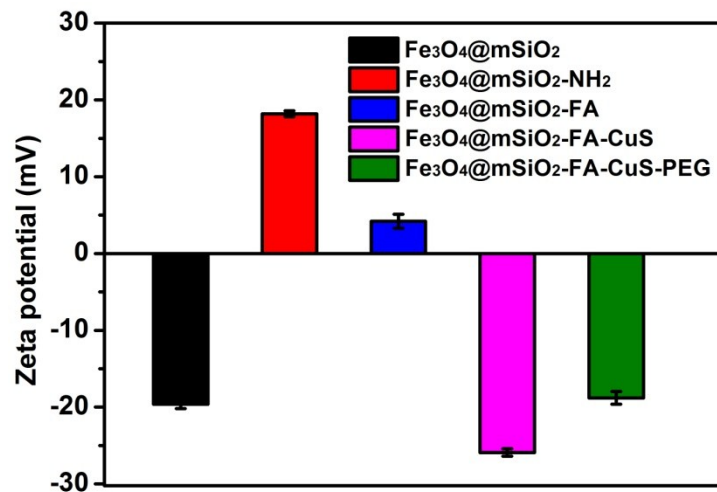


Fig. S4 Zeta potentials of $\text{Fe}_3\text{O}_4@\text{mSiO}_2$, $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-NH}_2$, $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-FA}$, $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-FA-CuS}$ and $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-FA-CuS-PEG}$ nanocomposites

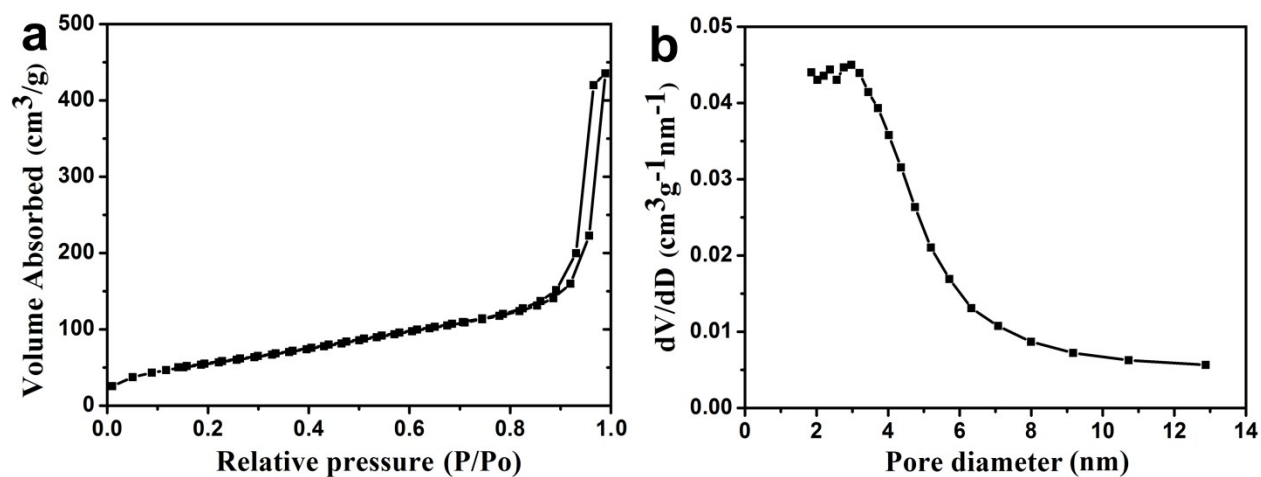


Fig. S5 (a) N₂ adsorption-desorption isotherms and (b) pore size distribution of $\text{Fe}_3\text{O}_4@\text{mSiO}_2\text{-FA-CuS-PEG}$ nanocomposites.