

Supporting information



Figure S1. Continuous flow reactor for Fe_3O_4 and ferrite nanoparticles production.

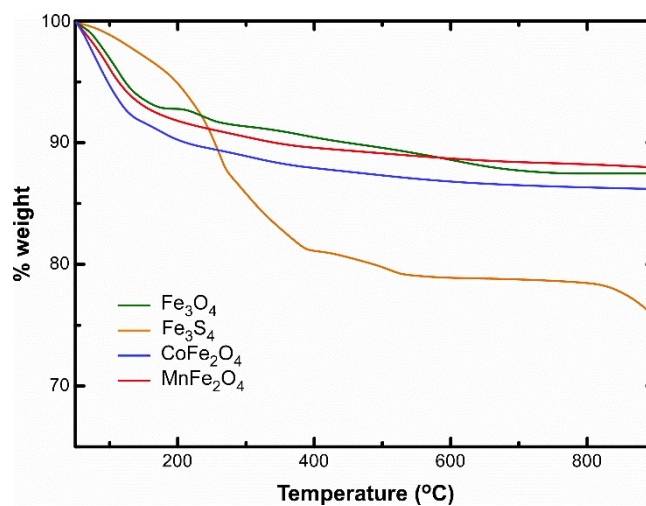


Figure S2. Thermogravimetric curves of uncoated nanoparticles.

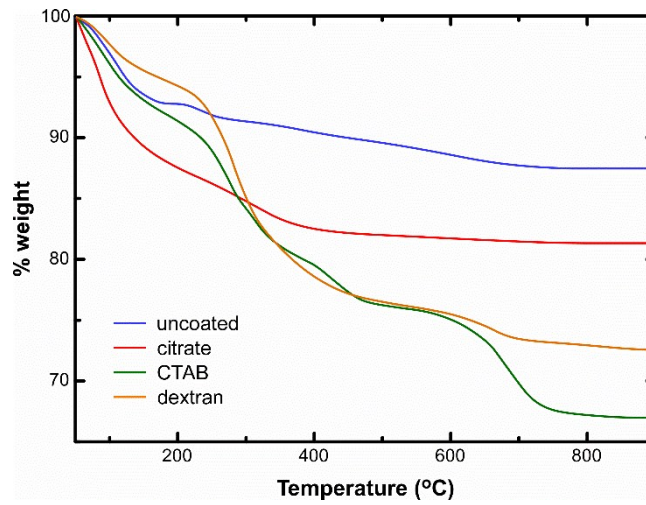


Figure S3. Thermogravimetric curves of uncoated and functionalized Fe_3O_4 nanoparticles with citrate, CTAB and dextran.

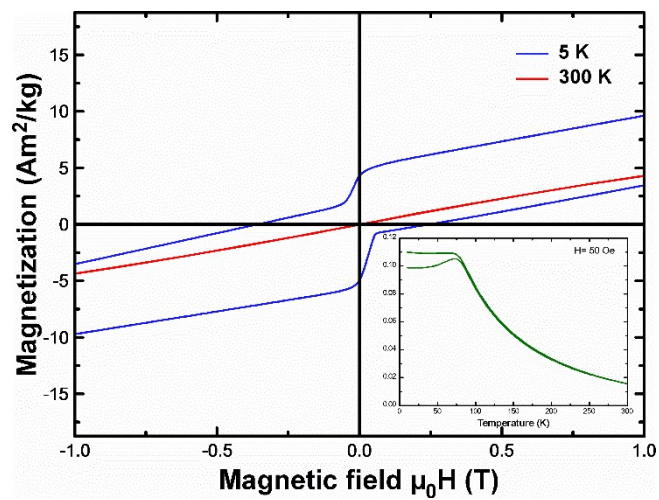


Figure S4. Magnetic hysteresis loops of citrate-coated CoFe_2O_4 nanoparticles at 5 K and 300 K. The inset shows ZFC/FC curves in an external field of 50 Oe.

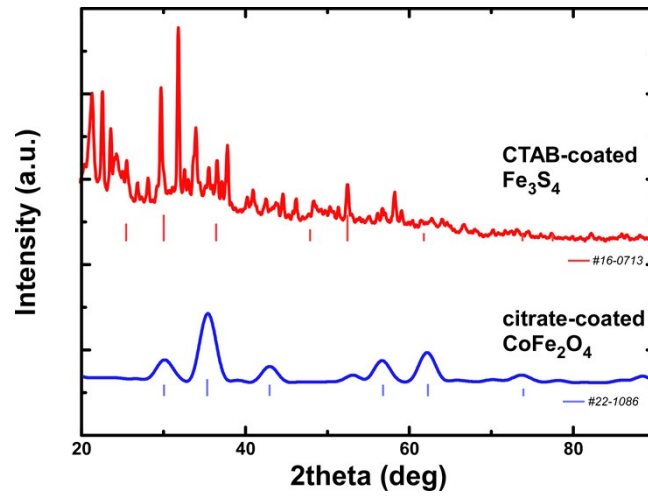


Figure S5. XRD diagram of citrate-CoFe₂O₄ and CTAB-Fe₃S₄ nanoparticles.

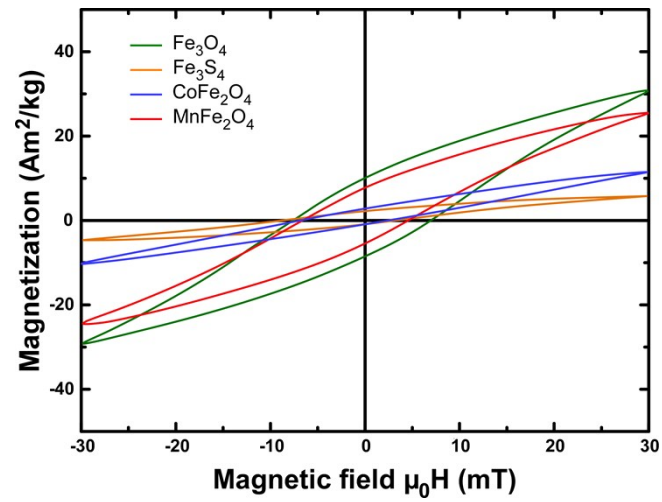


Figure S6. Minor loops at 30 mT of uncoated nanoparticles (data not normalized to metal content).

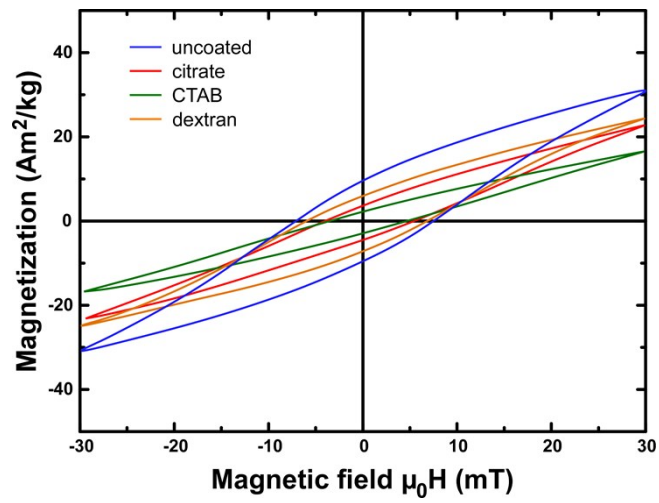


Figure S7. Minor loops at 30 mT of functionalized Fe_3O_4 nanoparticles (data not normalized to metal content).

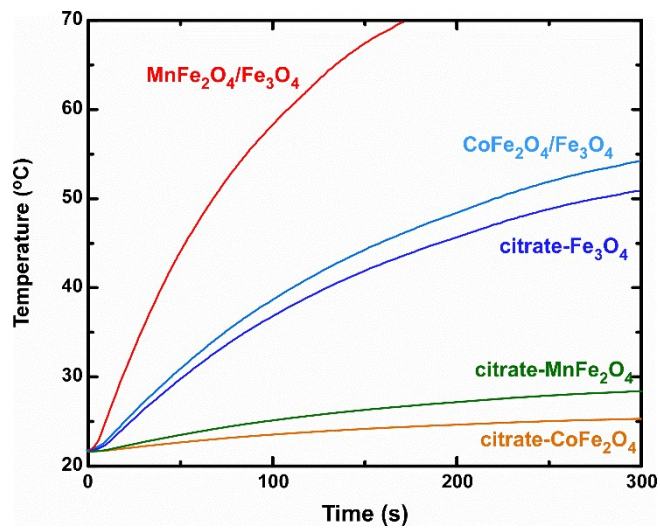


Figure S8. Magnetic hyperthermia heating curves of citrate-coated and binary nanoparticle systems at 30 mT and 765 kHz.

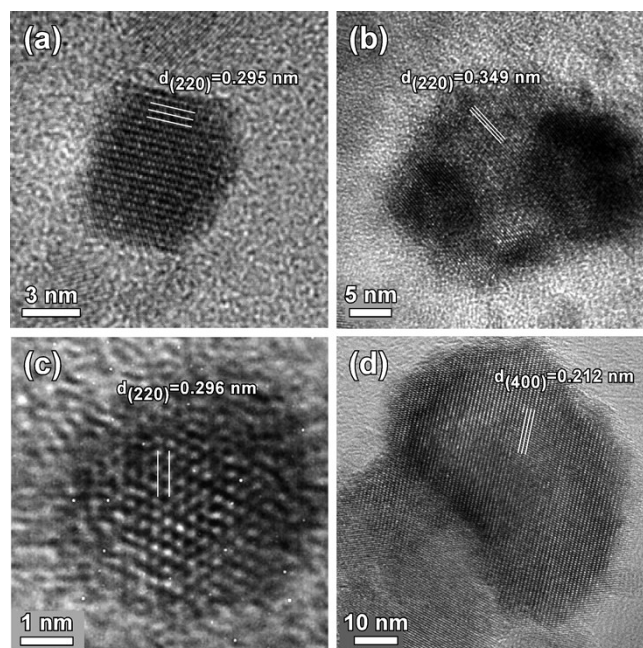


Figure S9. HRTEM images of citrate-coated Fe_3O_4 (a), Fe_3S_4 (b), CoFe_2O_4 (c) and MnFe_2O_4 (d) nanoparticles.