

Supplementary Materials

Table S1. Magnetic properties of the synthesized magnetic cores

MNP Core	Saturation Magnetization J_S , $A \cdot m^2/kg$	Remanent Magnetization J_R , $A \cdot m^2/kg$	Coercivity H_C , kOe
CoFe-OAm-1	45	14	0.07
Mag-OAm-2	72	14	0.09
CoFe-OA-1	52	26	1.9
CoFe-OAm-2	71	27	1.5
CoFe-OAm-5	81	31	0.8
CoFe ₂ O ₄ (pre)	62	15	0.37
Fe ₃ O ₄ -OA	62	3	0.03
CoFe ₂ O ₄ -OA	80	7	0.1
MnFe ₂ O ₄ -OA	77	7	0.1
ZnFe ₂ O ₄ -OA	74	7	0.9
Fe ₃ O ₄ /Au	64	5	0.07

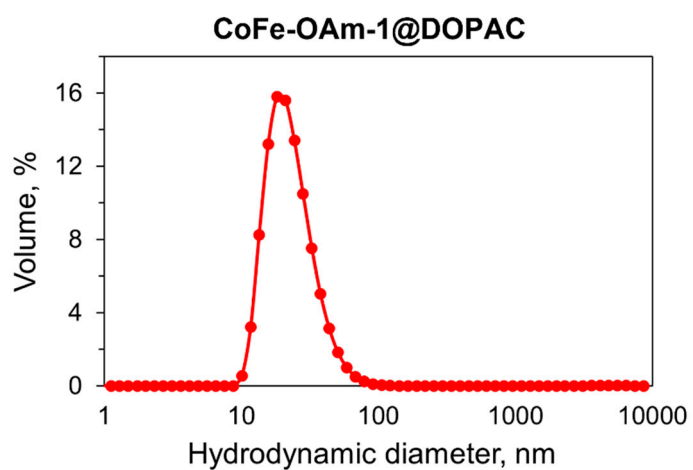


Figure S1. DLS measurements of CoFe-OAm-1@DOPAC nanoparticles size distribution.

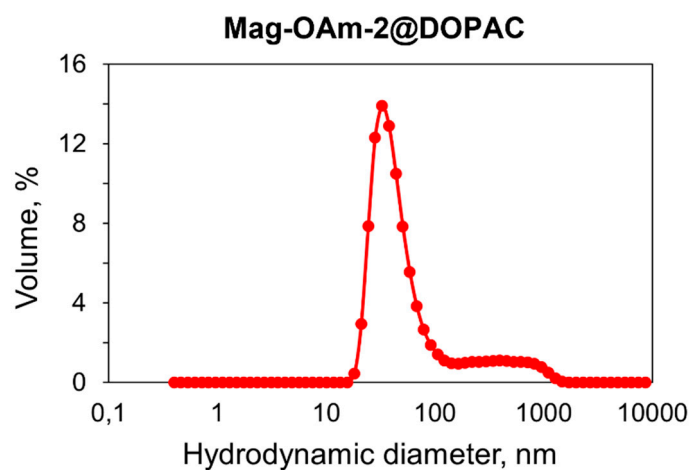


Figure S2. DLS measurements of Mag-OAm-2@DOPAC nanoparticles size distribution.

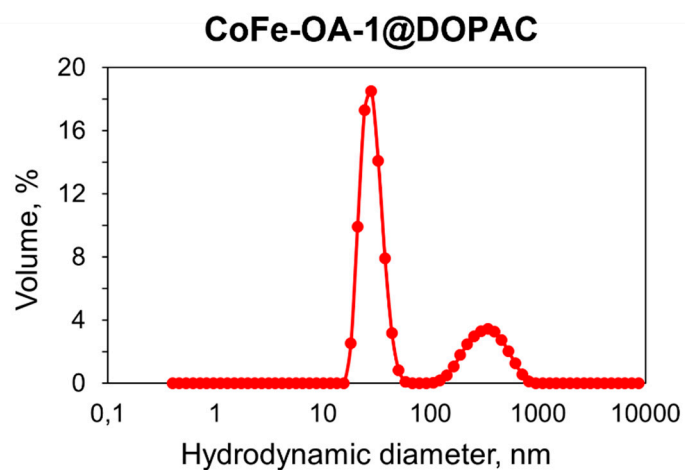


Figure S3. DLS measurements of CoFe-OA-1@DOPAC nanoparticles size distribution.

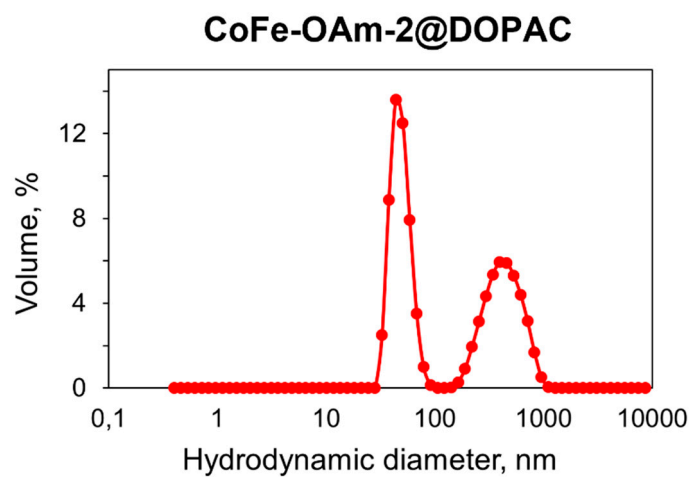


Figure S4. DLS measurements of CoFe-OAm-2@DOPAC nanoparticles size distribution.

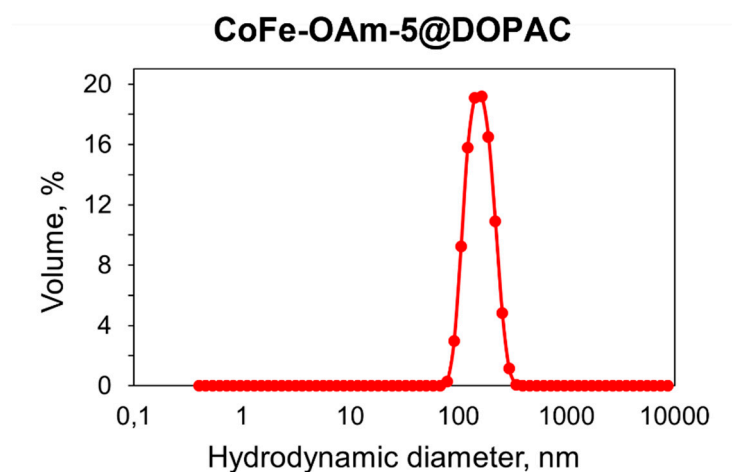


Figure S5. DLS measurements of CoFe-OAm-5@DOPAC nanoparticles size distribution.

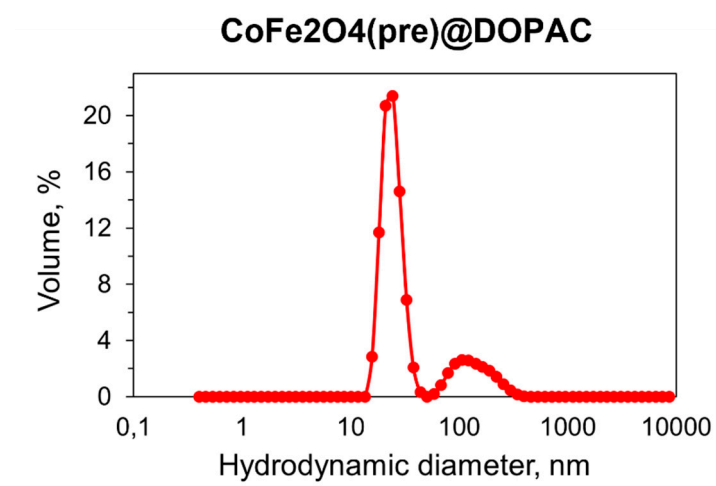


Figure S6. DLS measurements of CoFe₂O₄(pre)@DOPAC nanoparticles size distribution.

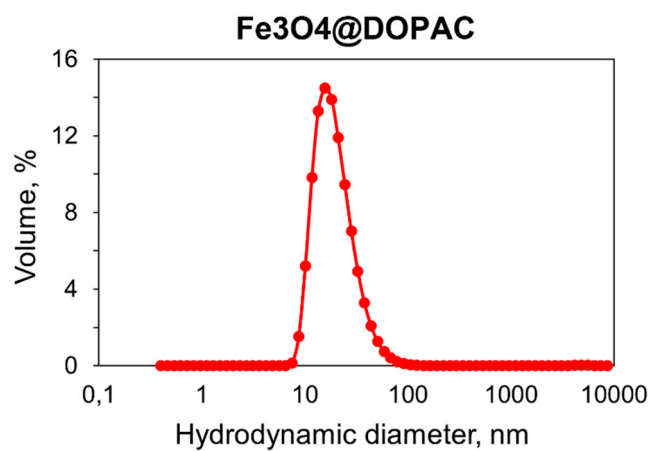


Figure S7. DLS measurements of Fe₃O₄@DOPAC nanoparticles size distribution.

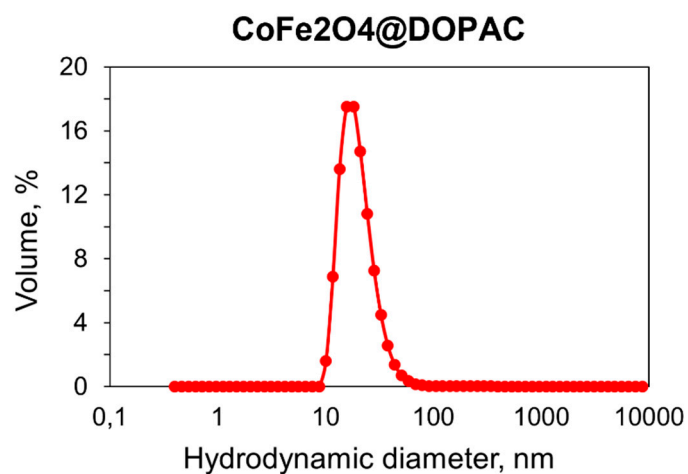


Figure S8. DLS measurements of CoFe₂O₄@DOPAC nanoparticles size distribution.

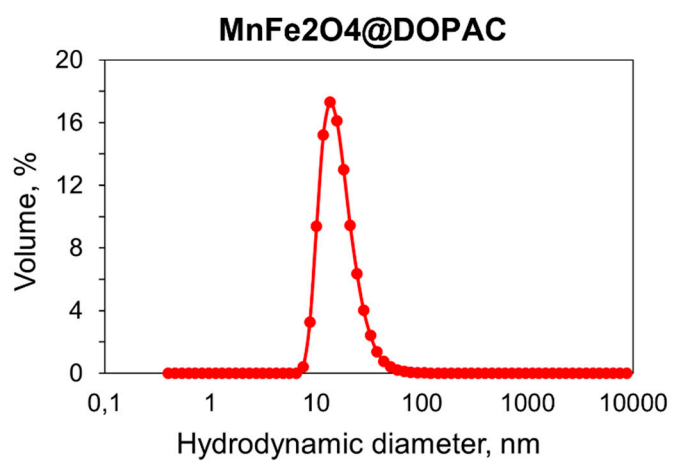


Figure S9. DLS measurements of MnFe₂O₄@DOPAC nanoparticles size distribution.

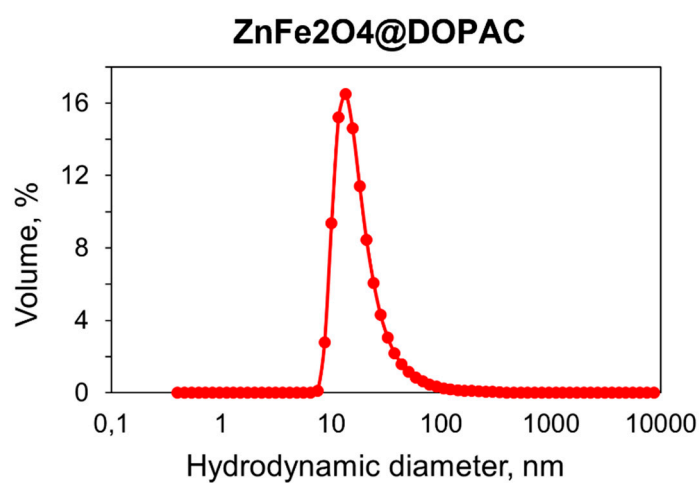


Figure S10. DLS measurements of ZnFe₂O₄@DOPAC nanoparticles size distribution.

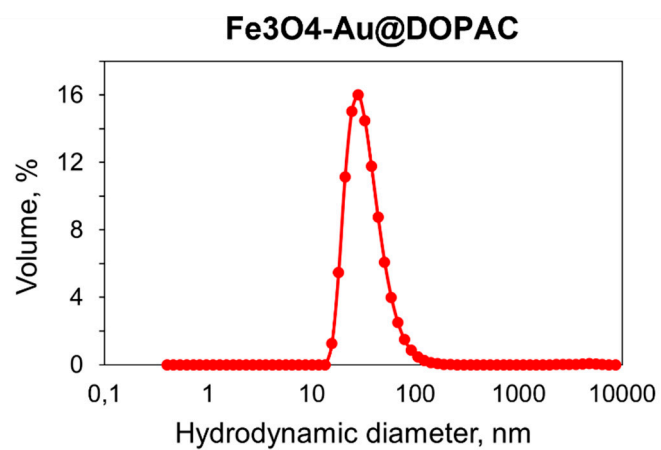


Figure S11. DLS measurements of Fe₃O₄-Au@DOPAC nanoparticles size distribution.