

Supplementary Information

Synthesis and characterization of bracelet-like magnetic nanorings consisting of $\text{Ag}/\text{Fe}_3\text{O}_4$ core/shell nanoparticles

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Figure captions:

Figure S1. SEM image of the nanorings dried with an external magnet (0.15 T) under the copper slice.

Figure S2. TEM images of the single nanorings after intense sonication for 15 min.

Figure S3. TEM images of many nanorings after intense sonication for 15 min.

Figure S4. TEM of the silver synthesized by 0.29 g (1 mmol) tri-sodium citrate, 0.2 mL silver nitrate (0.1 M) solution and 0.1 mL hydrazine hydrate solution, reaction time 10 min, without heating and was collected by centrifuge.

Figure S5. HR-TEM image of interface between two nanoparticles.

Figure S6. TEM image of Fe_3O_4 products synthesized without silver.

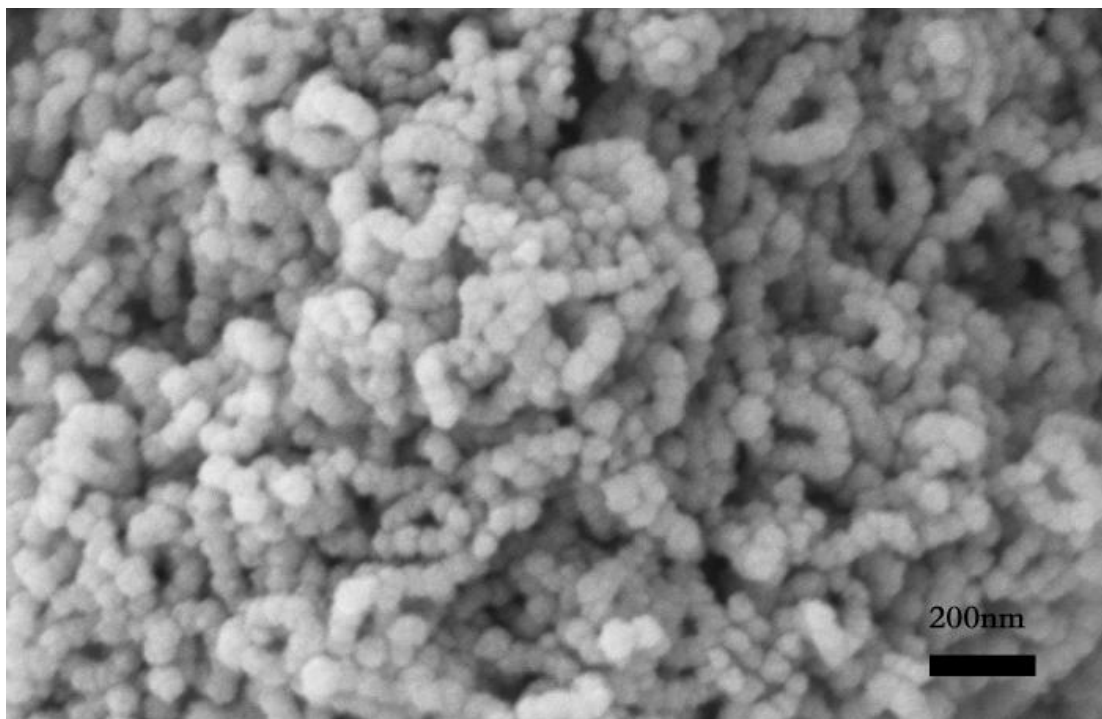


Figure S1

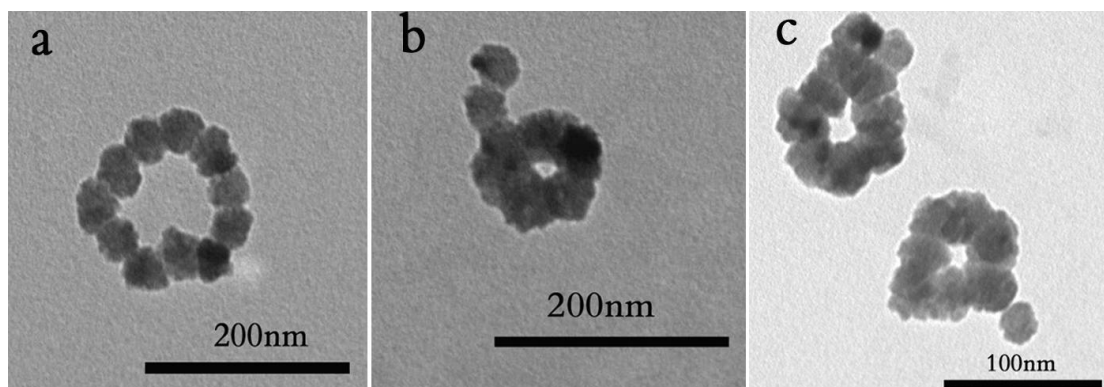


Figure S2

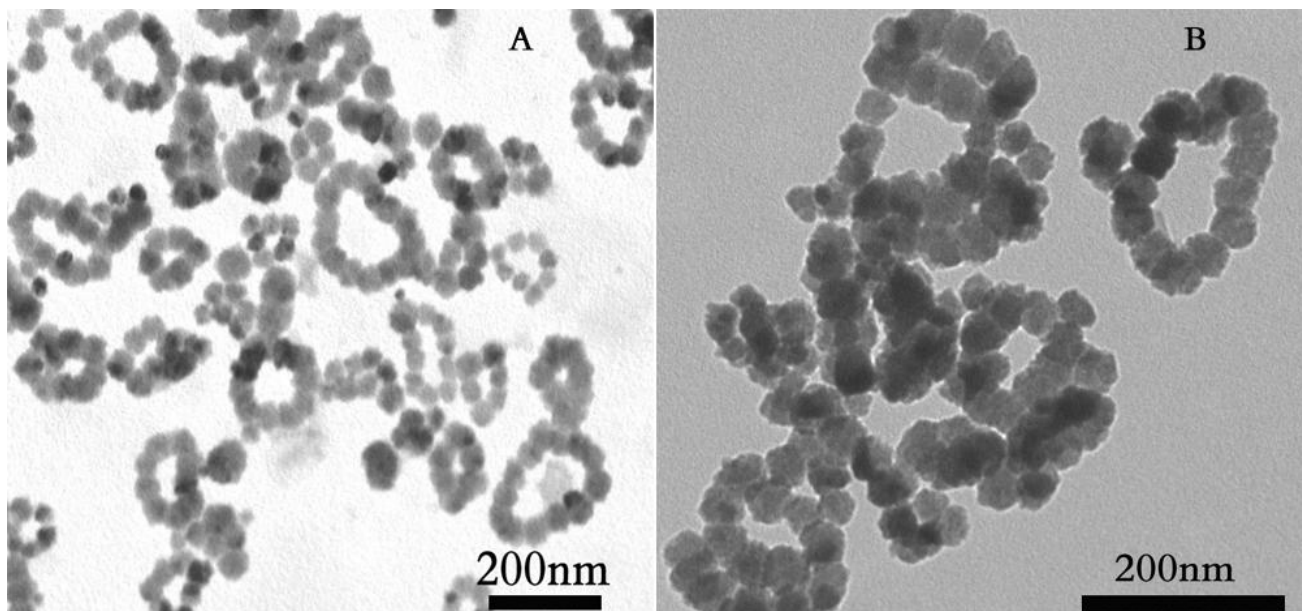


Figure S3

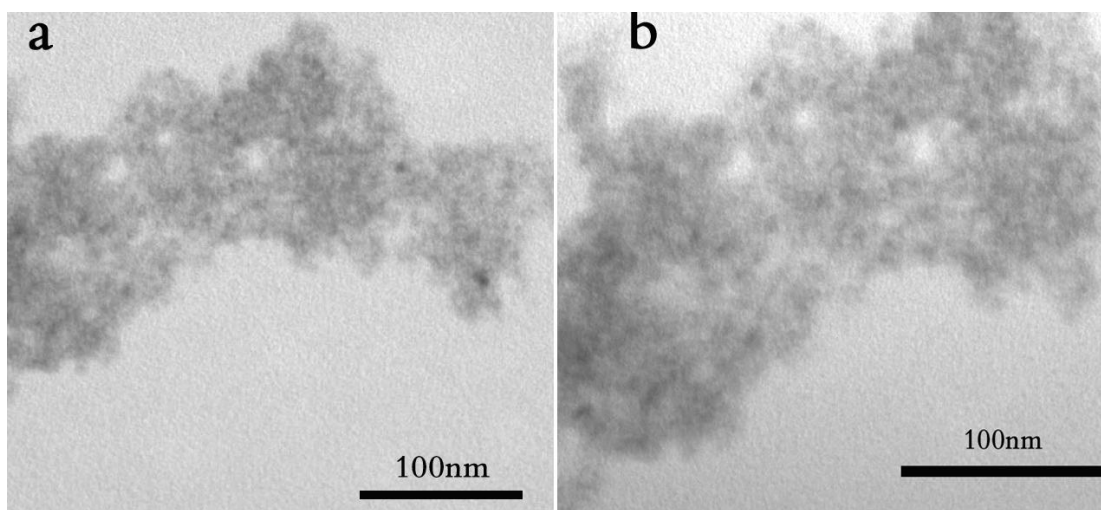


Figure S4

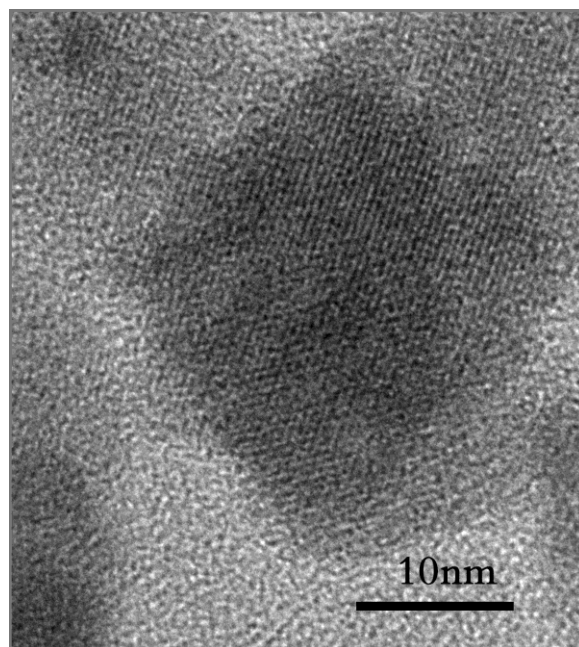


Figure S5

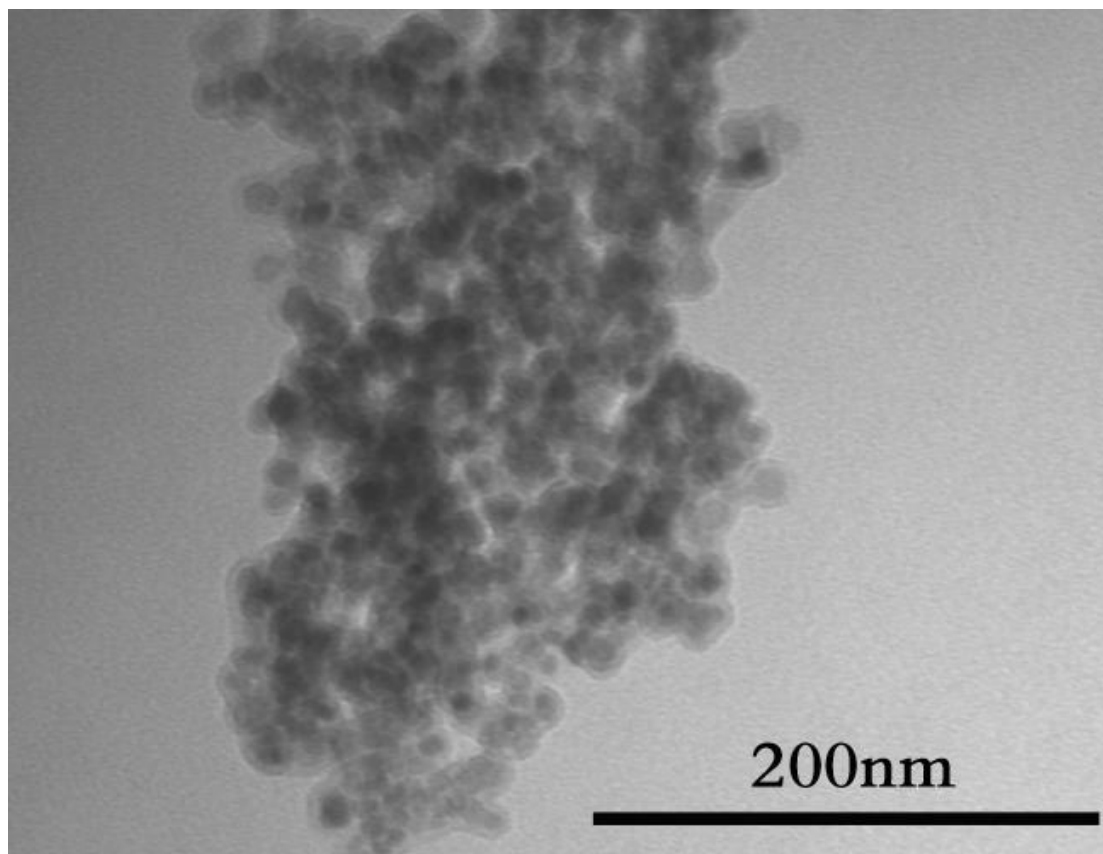


Figure S6