

## Electronic supplementary information (ESI)

### Controlled synthesis of $\text{Fe}_3\text{O}_4@\text{ZIF-8}$ nanoparticles for drug delivery

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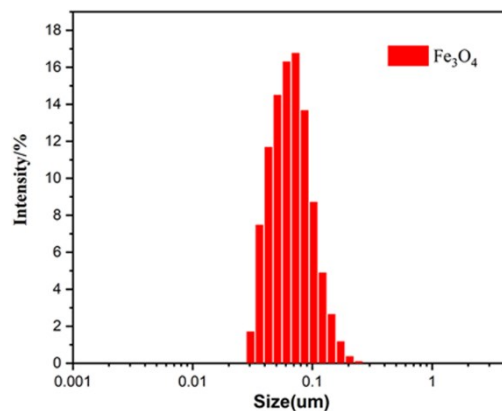


Figure S1. DLS of  $\text{Fe}_3\text{O}_4$ .

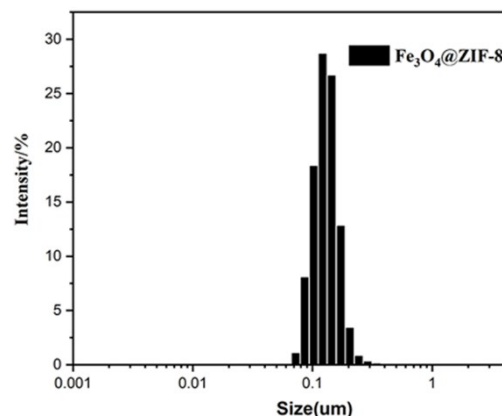


Figure S2. DLS of SCS-1.

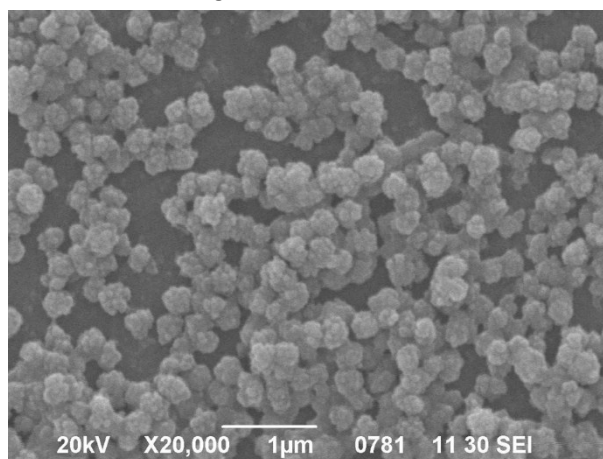
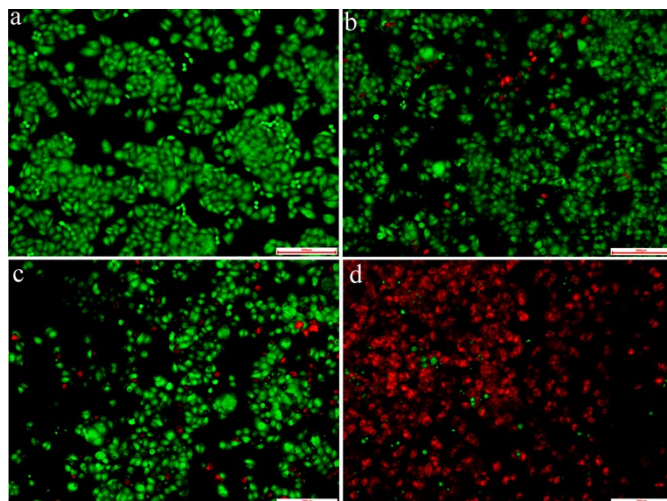


Figure S3. The SEM image of  $\text{Fe}_3\text{O}_4@\text{ZIF-8}$  NPs after loading of DOX.



**Figure S4.** Live-dead staining images of the hela cells treated without  $\text{Fe}_3\text{O}_4@\text{ZIF-8}$  solution (a), treated with 4 mg/ml  $\text{Fe}_3\text{O}_4@\text{ZIF-8}$  solution (b). After treating with magnetic field and 808 nm laser, the live-dead staining images of the hela cells in the  $\text{Fe}_3\text{O}_4@\text{ZIF-8}$  deficiency area (c) and in the  $\text{Fe}_3\text{O}_4@\text{ZIF-8}$  enrichment area (d). (Live cells: green; dead cells: red; scale bar: 200  $\mu\text{m}$ ).