**Supplementary Figure 1**



**Supplementary Figure 1:** The size and size distribution of the Ag@Fe3O4 nanoparticles measured by DLS.

**Supplementary Figure 2**



**Supplementary Figure 2:** TEM images of the Ag@Fe3O4 nanoparticles after irradiatting with an 808 nm light laser for 15 min at 5.0 W /cm2.