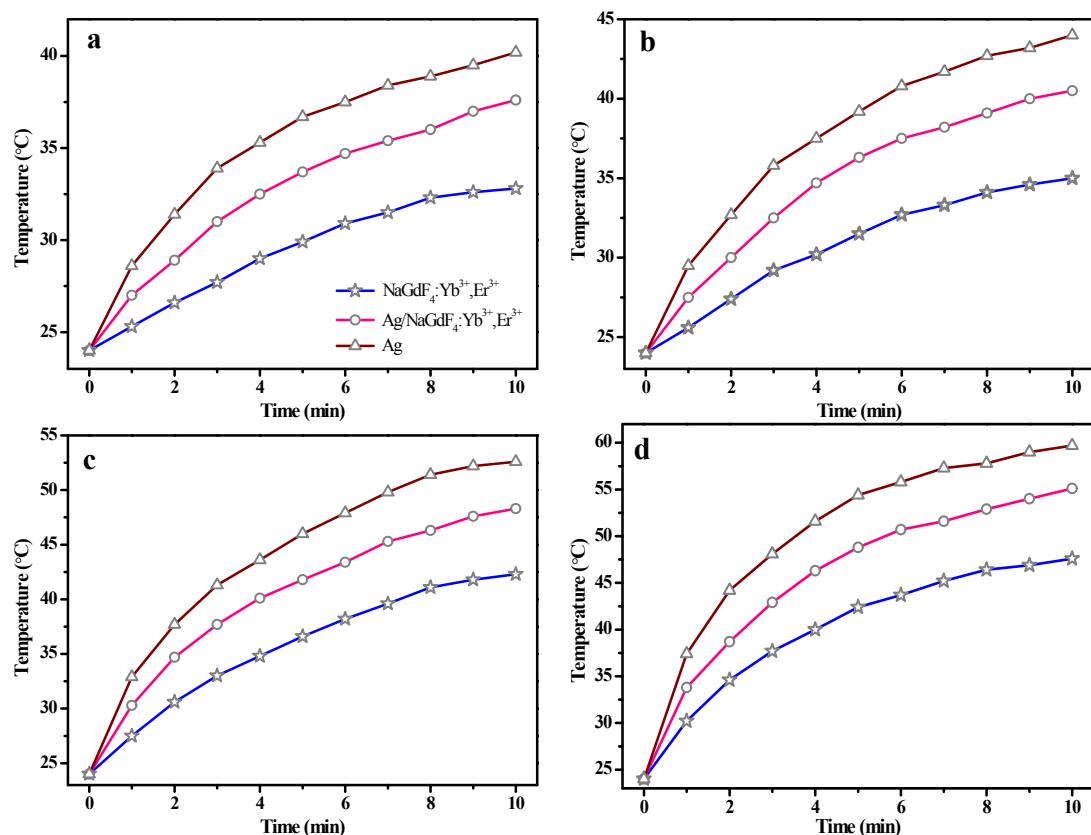


## Supporting Information

### A new strategy to directly construct the hybrid luminescence-photothermal-magnetism multifunctional nanocomposites for cancer up-conversion imaging and photothermal therapy

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**Fig. S1** The temperature of NaGdF<sub>4</sub>:Yb<sup>3+</sup>,Er<sup>3+</sup> nanoparticles, Ag/NaGdF<sub>4</sub>:Yb<sup>3+</sup>,Er<sup>3+</sup> nanocomposites and Ag nanoparticles as a function of excitation time at different concentrations: (a) 0.05, (b) 0.1, (c) 0.25 and (d) 0.5 mg mL<sup>-1</sup>.