Electronic Supplementary Information

$CuCo_2S_4$ nanocrystals: A new platform for multimodal imaging guided photothermal therapy

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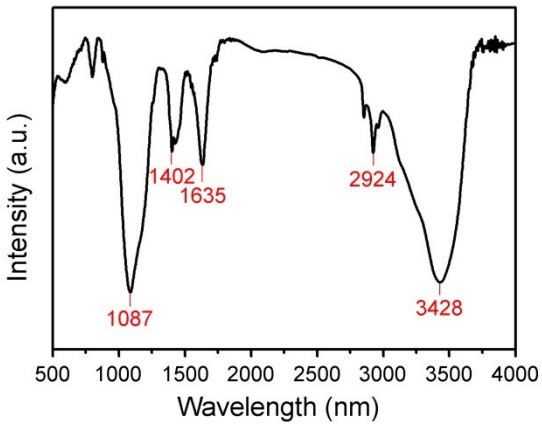

Figure S1. FTIR spectroscopy of $CuCo_2S_4$ NCs

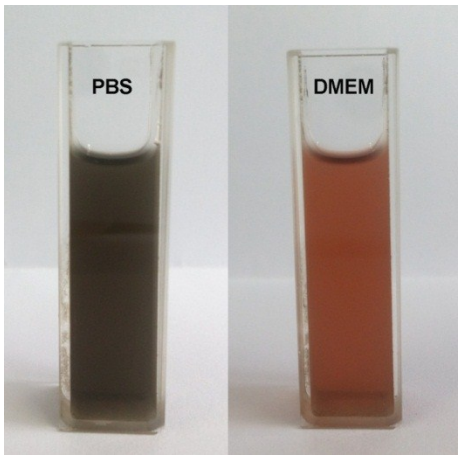

Figure S2. Photos of the $CuCo_2S_4$ NCs dispersed in PBS and Dulbecco's Modied Eagle Medium (DMEM).

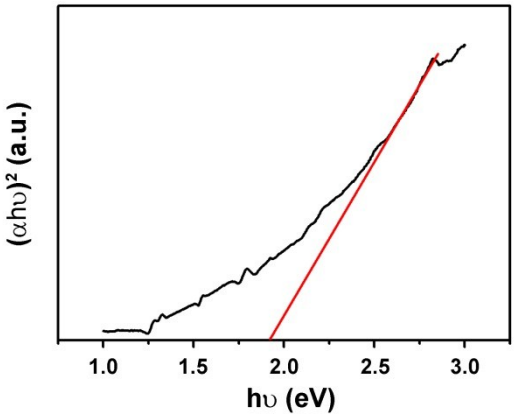

Figure S3. Diffuse reflection spectra of the solid $CuCo_2S_4$ NCs.

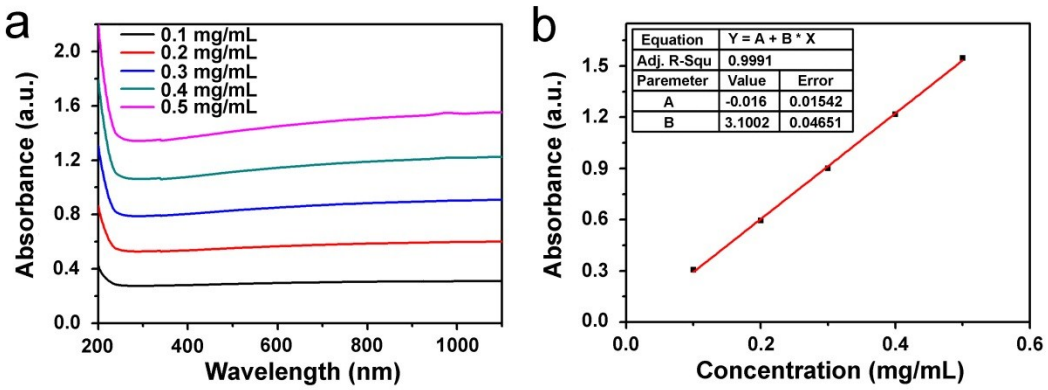

Figure S4. (a) UV-Vis-NIR absorption spectra of $CuCo_2S_4$ dispersion with different concentrations. (b) Corresponding linear relationship of the absorbance at 1064 nm versus concentrations.

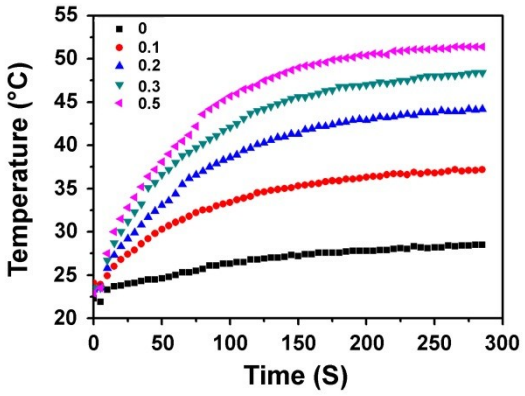

Figure S5. Temperature elevations of water and $CuCo_2S_4$ dispersion with different concentrations over a period of 5 min under exposure of a NIR light (1064 nm, 0.66 W/cm^2).

Table S1. Blood biochemistry level of the untreated mice and experimental mice intravenously injected with $CuCo_2S_4$ NCs (dose = 0.5 mg/animal).

	Control	Control	Control	Experiment	Experiment	Experiment
ALT	54.5 U/L	65 U/L	82.4 U/L	81.6 U/L	73.9 U/L	68.3 U/L
AST	96.4 U/L	175.8 U/L	144.4 U/L	173.8 U/L	127.6 U/L	151.5 U/L
γ-GT	0.3 U/L	0.7 U/L	1.3 U/L	0.5 U/L	0.8 U/L	1 U/L
Alb	36.7 g/L	34.5 g/L	35.9 g/L	33.3 g/L	33.8 g/L	32.5 g/L
TBA	34.1 μmol/L	15.5 μmol/L	21.2 μmol/L	24.2 μmol/L	25.4μmol/L	85.3μmol/L
ALP	318.4μmol/L	229μmol/L	641.8μmol/L	422.2μmol/L	339.9μmol/L	490.3μmol/L
UREA	4.89mmol/L	6.06 mmol/L	4.99 mmol/L	4.81 mmol/L	4.01 mmol/L	4.97 mmol/L