Supplementary Material

Indocyanine green-platinum porphyrins integrated conjugated polymer hybrid nanoparticles for near-infrared-triggered photothermal and two-photon photodynamic therapy

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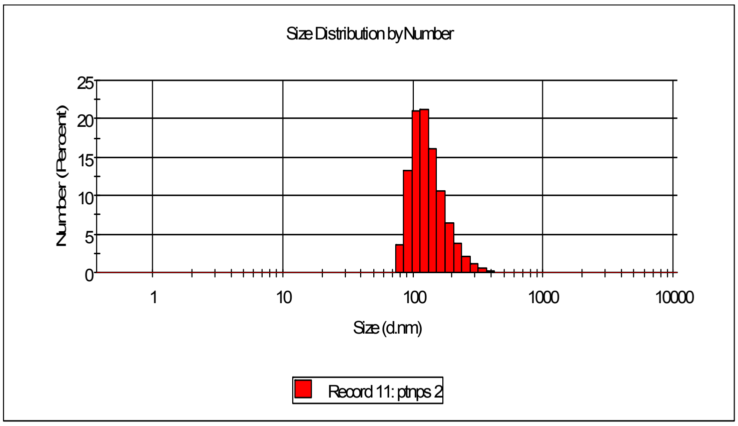
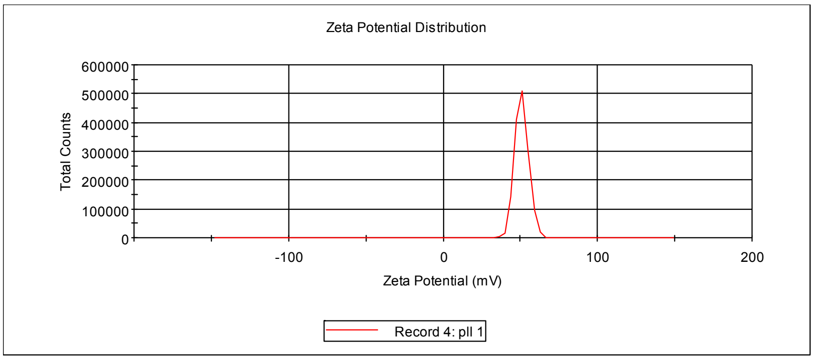


Fig. S1 Histogram of hydrodynamic diameter data measured by dynamic light scattering.

(a)



(b)

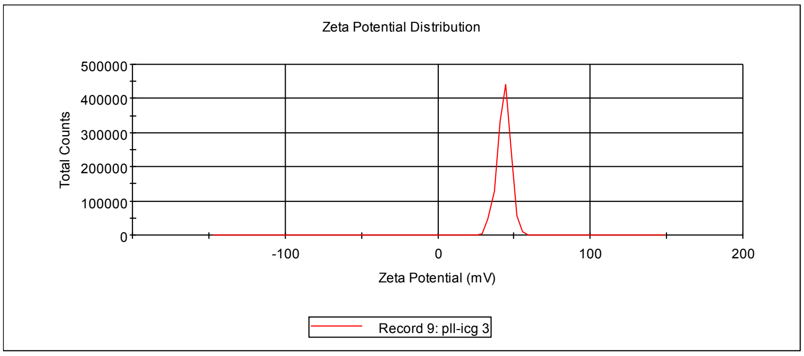
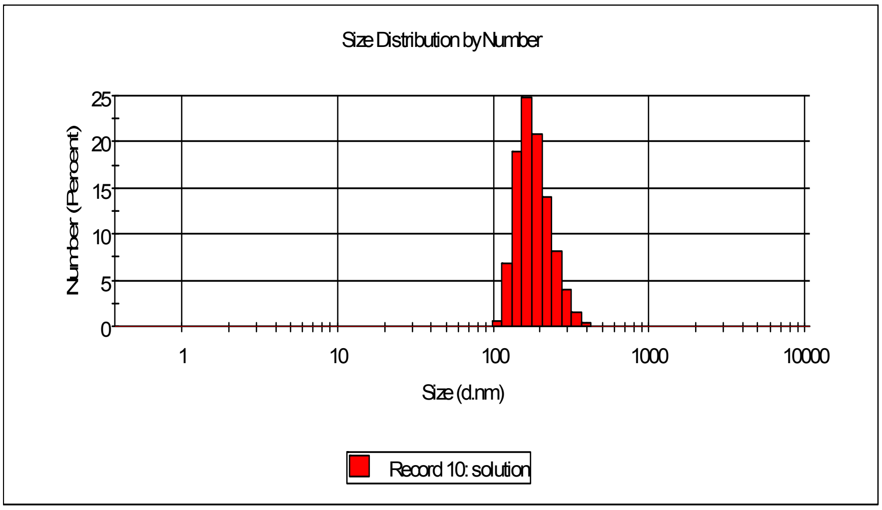


Fig. S2 Zeta potential of Pt-NPs before (a) and after ICG loading (b).

(a)



(b)

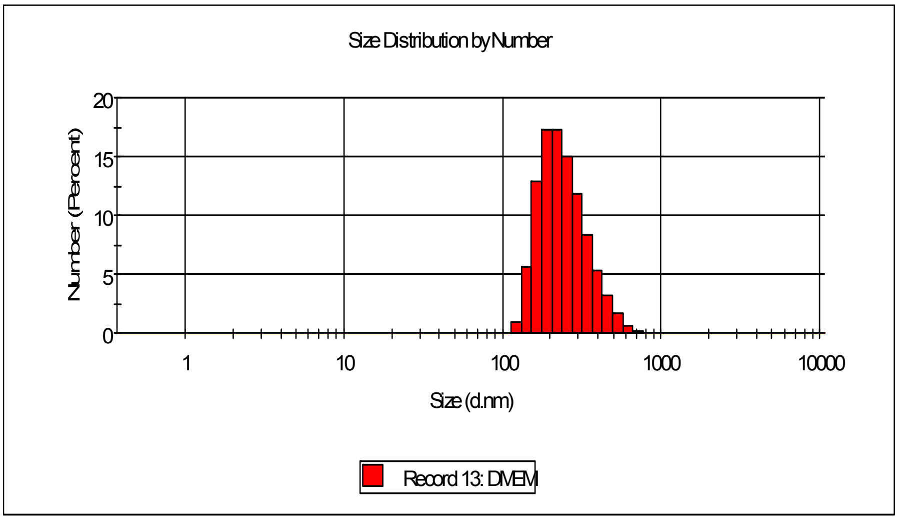


Fig. S3 Stability of ICG-Pt-NPs dispersed in solution (a) and DMEM (b) supplemented with 10% FBS at 7 days (b) recorded by DLS.

(a) (b)

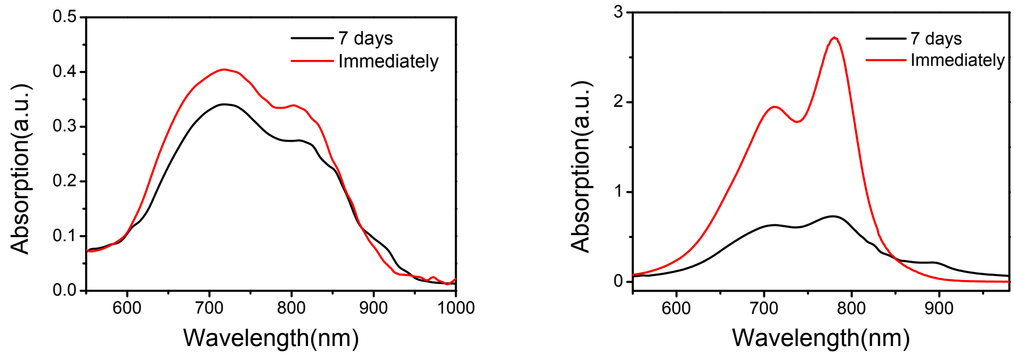


Fig. S4 Absorption spectra of ICG loaded NPs (a) and free ICG (b) from immediately dissolved in water to 7 days.

(a) (b)

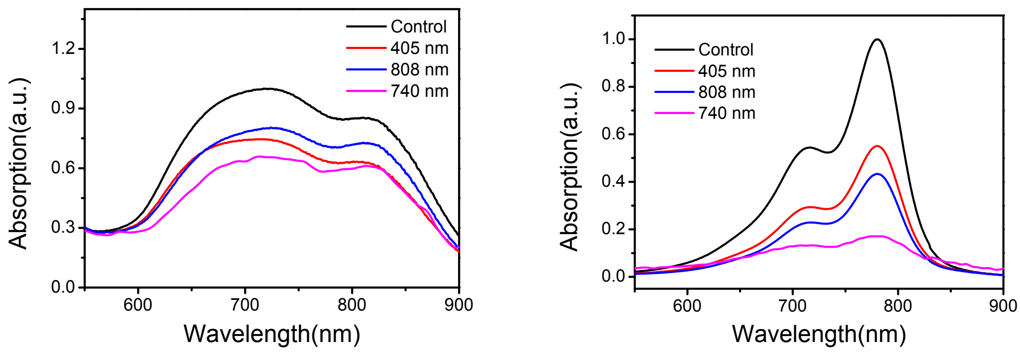


Fig. S5 Stability of ICG-Pt-NPs (a) and free ICG (b) under 405 nm (0.06 $W\cdot cm^{-2}$ for 3 min), 808 nm (1 $W\cdot cm^{-2}$ for 10 min) and 740 nm (3 $W\cdot cm^{-2}$ for 10 min) laser irradiation, respectively.

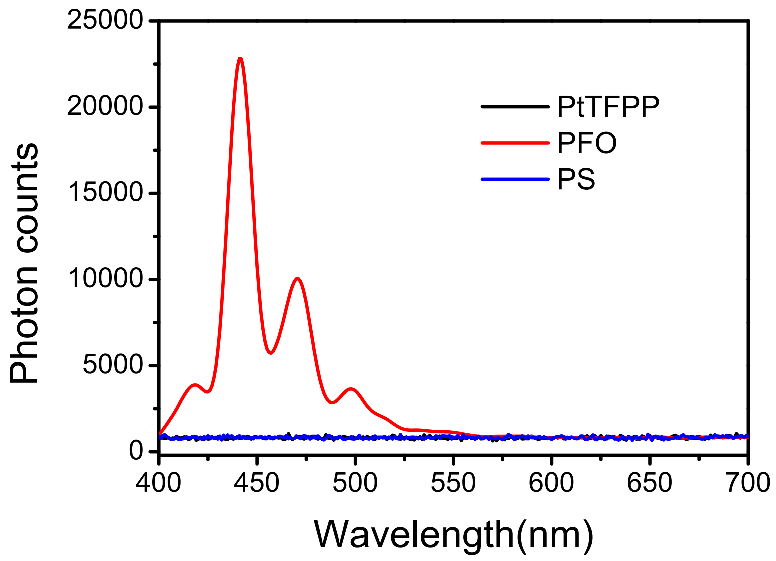


Fig. S6 Two-photon excitation emission of PtTFPP, PFO and PS in tetrahydrofuran under irradiation with femto-second laser pulses at 740 nm.

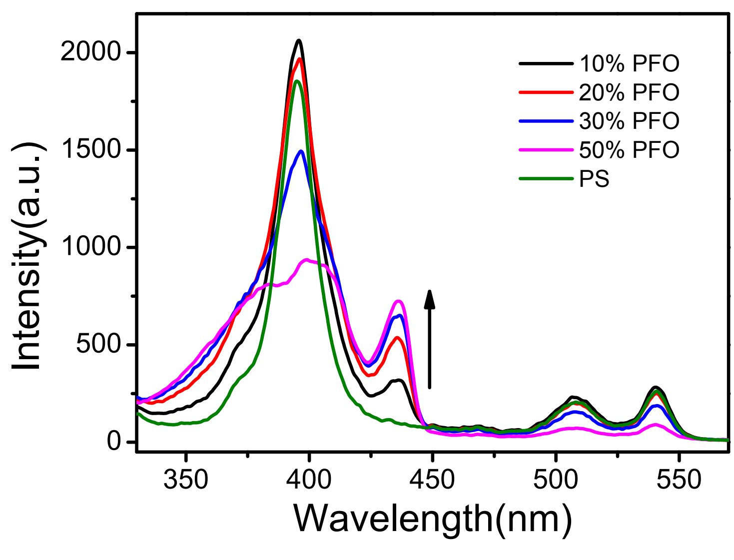


Fig. S7 Luminescence excitation spectra of various PtFTPP-doped nanoparticles at different concentration of PFO in the nanoparticles (0%, 10%, 20%, 30% and 50% weight ratio of [PFO] / [total]). λem =650 nm.

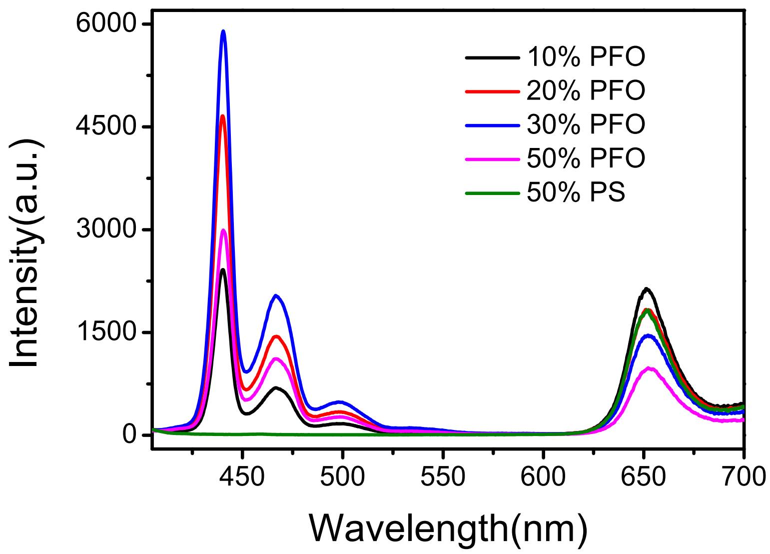


Fig. S8 Luminescence emission spectra of various nanoparticles (0%, 15%, 30% and 50% weight ratio of [PFO] / [total]). λex =395 nm.

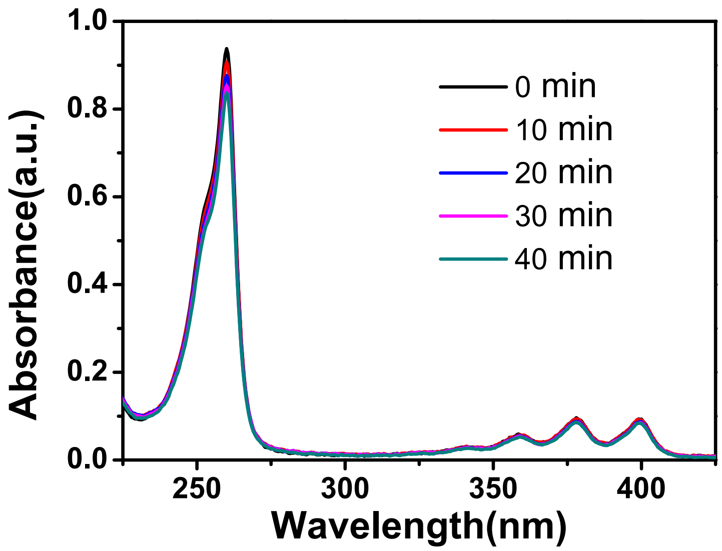


Fig. S9 Absorption spectra of ADMA (50 μM) in 10 mM PBS buffer solution under irradiation at 540 nm for various time (0 ~ 40 min).

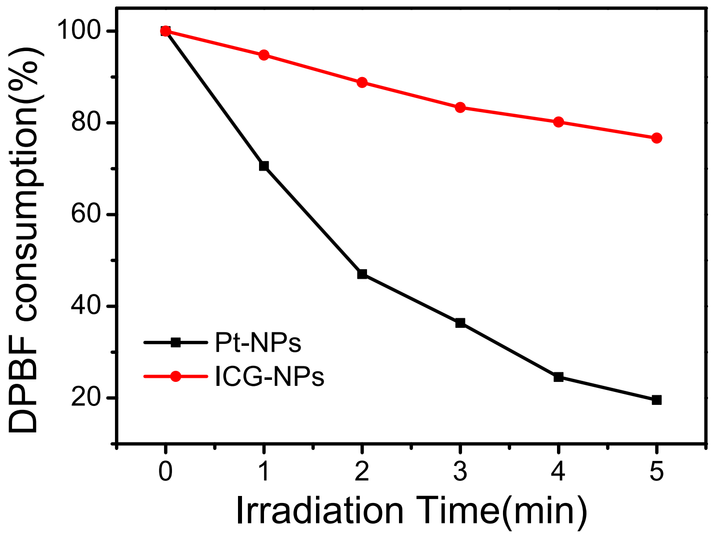


Fig. S10 Comparison of consumption rate of DPBF (10 ppm) over time between ICG-NPs (20 mg·L^{-1}) and Pt-NPs (20 mg·L^{-1}).

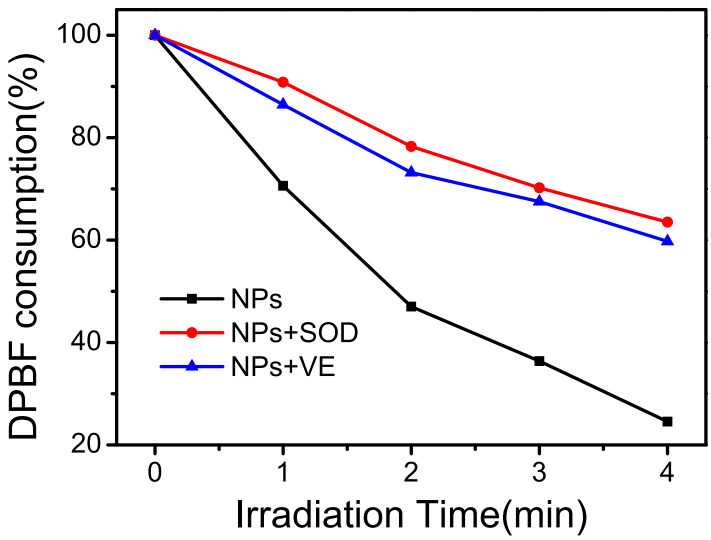


Fig. S11 Comparison of consumption rate of DPBF (10 ppm) over time between NPs (20 mg·L^{-1}) alone, NPs with SOD (20 unit/mL) and NPs with VE (20 ppm).

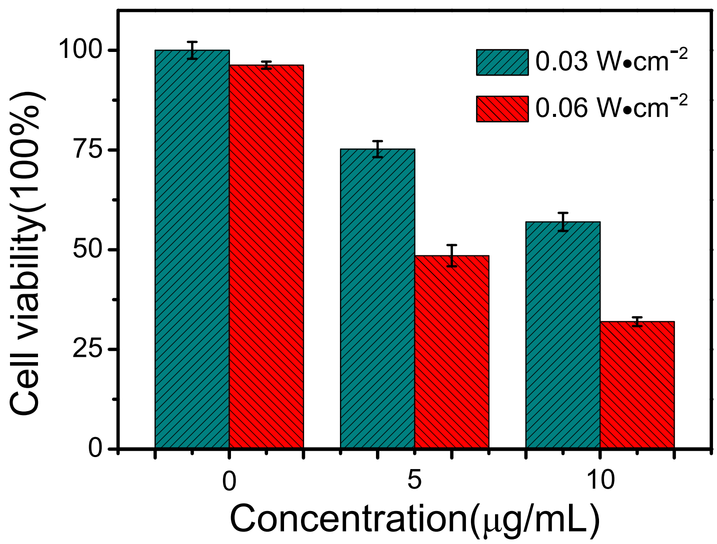


Fig. S12 Viability of HepG2 cells versus different concentrations of NAPP and irradiation power with 405 nm laser.