

Electronic Supplementary Information

Mesoporous NiS₂ Nanospheres as a Hydrophobic Anticancer Drug Delivery Vehicle for Synergistic Photothermal-Chemotherapy

Gang He^{a#}, Yan Ma^{a#}, Hu Zhou^{b#}, Siyuan Sun^a, Xianwen Wang^{a*}, Haisheng Qian^a, Yan Xu^a, Zhaohua Miao^{a*}, and Zhengbao Zha^{a*}

^aSchool of Food and Biological Engineering, Hefei University of Technology, Hefei, Anhui 230009, P. R. China.

^bThe First Affiliated Hospital of University of Science and Technology of China, Anhui Provincial Cancer Hospital, Hefei, Anhui 230001, P. R. China.

* Corresponding author. Email: xianwenwang@mail.hfut.edu.cn; zhaohua_miao@hfut.edu.cn; zbzha@hfut.edu.cn; Tel: +86 551 62901285.

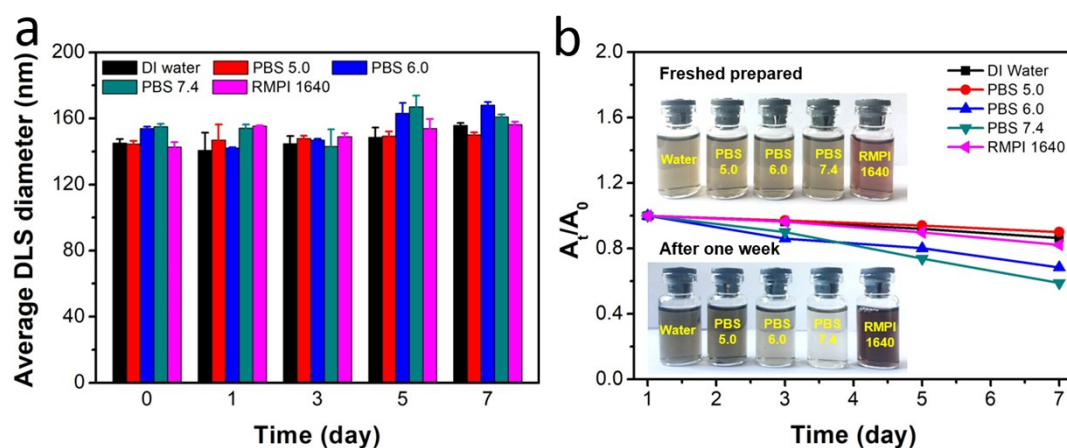


Fig. S1 Storage stability of mNiS₂ NSs in various medium at 25 °C: a) hydrodynamic diameter distribution and b) relative absorbance at 808 nm of mNiS₂ NSs (inset: photographs of mNiS₂ NSs).

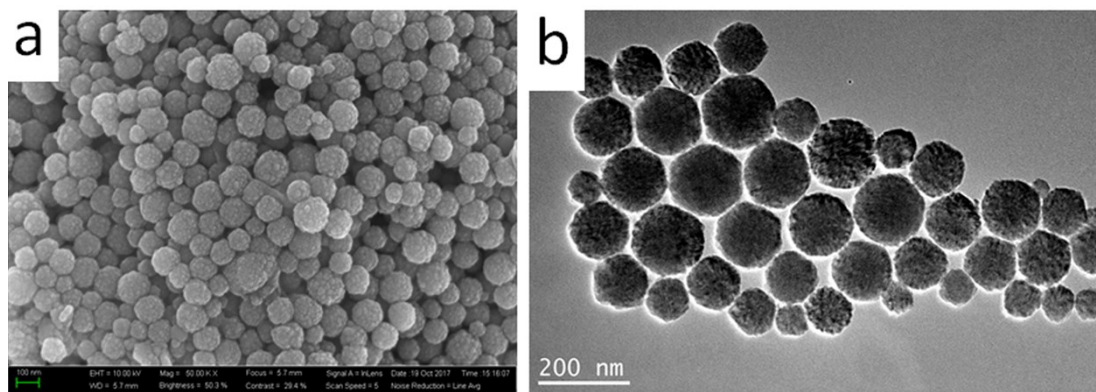


Fig. S2 Characterization of CPT@mNiS₂ NSs. a) SEM image; b) TEM image.

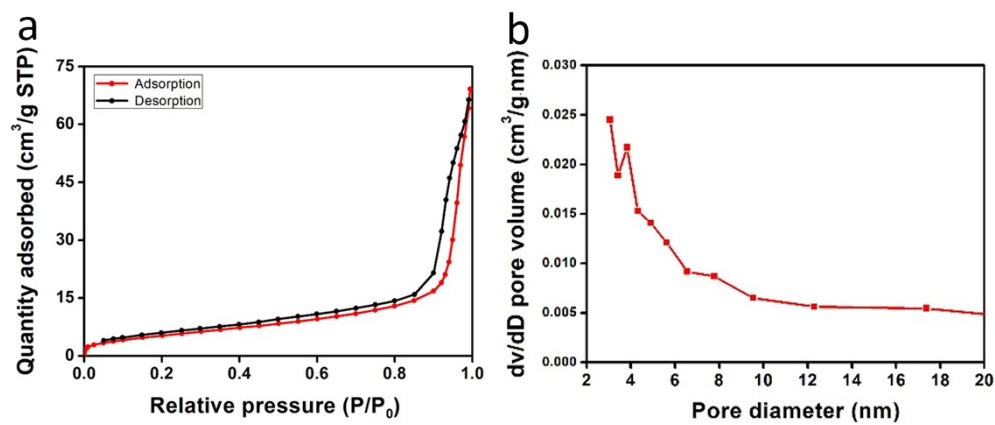


Fig. S3 a) Nitrogen adsorption-desorption isotherm and b) pore size distribution of CPT@mNiS₂ NSs.

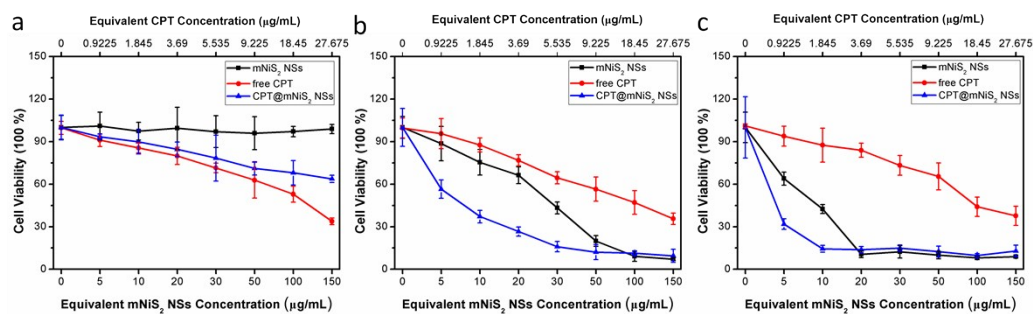


Fig. S4 Cell viability of HepG2 cancer cells treated with free CPT, mNiS₂ NSs and CPT@mNiS₂ NSs plus NIR laser irradiation for a) 0 min; b) 1 min; c) 3 min.