

Supporting information

NIR-activated polymeric nanoplatform with ROS- and temperature-sensitive for combined photothermal and chemotherapy on pancreatic cancer

Xiang Zhan,^{†ab} Xuan Nie,^{†c} Fan Gao,^c Cong Zhang,^d Ye-Zi You,^{*c} and Yue Yu^{*ad}

- a. AnHui provincial Hospital, Cheeloo college of Medicine, Shandong University. Jinan, ShangDong, 250021, China.
- b. Department of Gastroenterology, the Second Affiliated Hospital of Anhui Province, Hefei, Anhui, 230601, China.
- c. Hefei National Laboratory for Physical Sciences at the Microscale, CAS Key Laboratory of Soft Matter Chemistry, Department of Polymer Science and Engineering, University of Science and Technology of China, Hefei 230026, P. R. China. Email: yzyou@ustc.edu.cn
- d. Department of Gastroenterology, AnHui provincial Hospital, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei, Anhui, 230001, P.R. China. Email: yuyuemd@ustc.edu.cn
- †. Contributed equally to the first author.

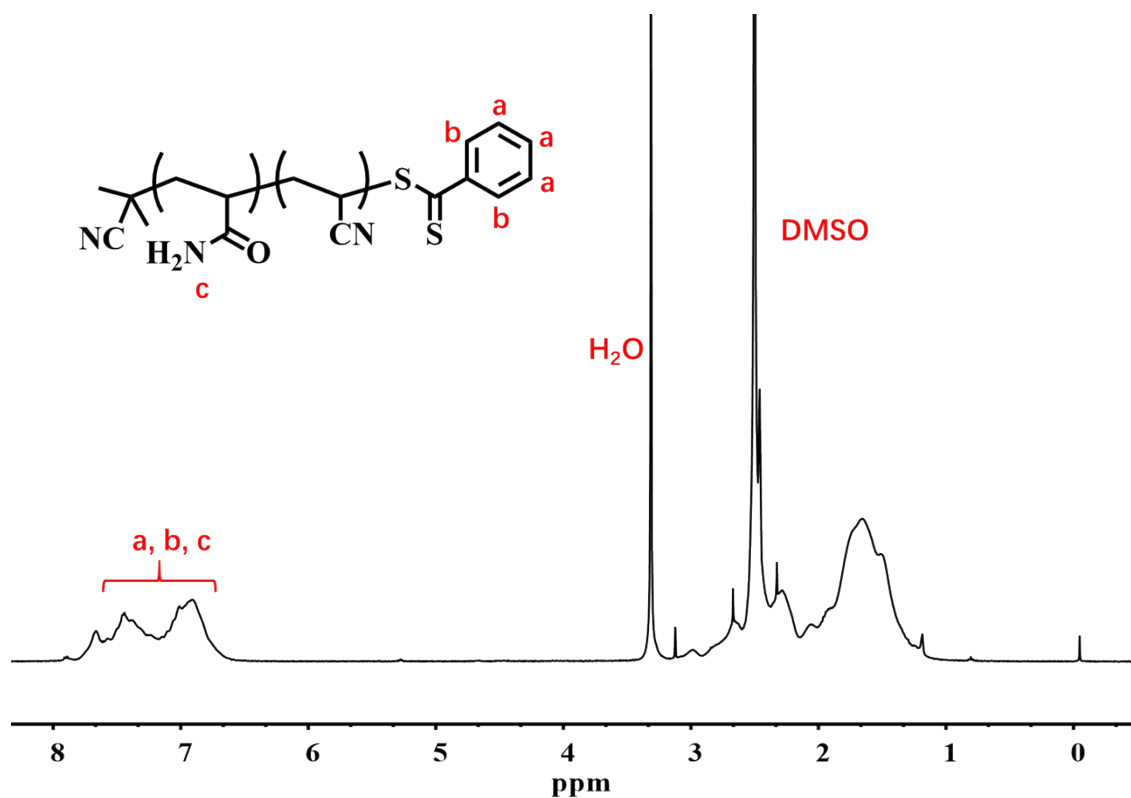


Fig. S1. The ^1H NMR spectrum of P(AAm-co-AN) in DMSO- d_6 .

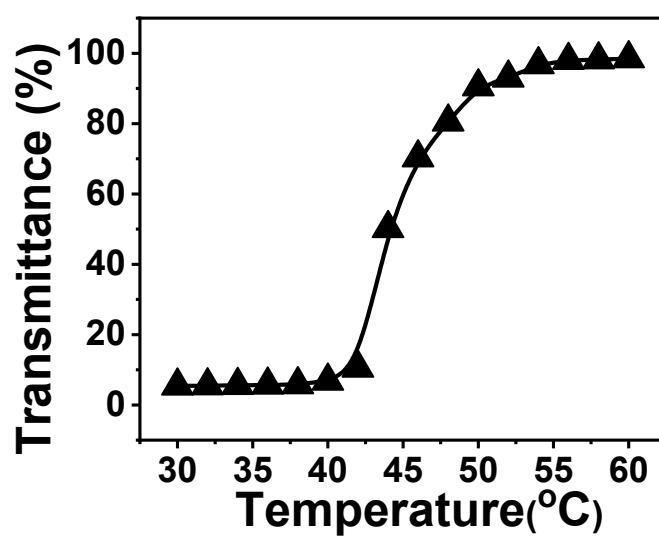


Fig. S2. The temperature-transmittance plot of P(AAm-co-AN) in PBS (5.0 mg/mL, and the heating rate at 1.0 $^{\circ}\text{C}/\text{min}$).

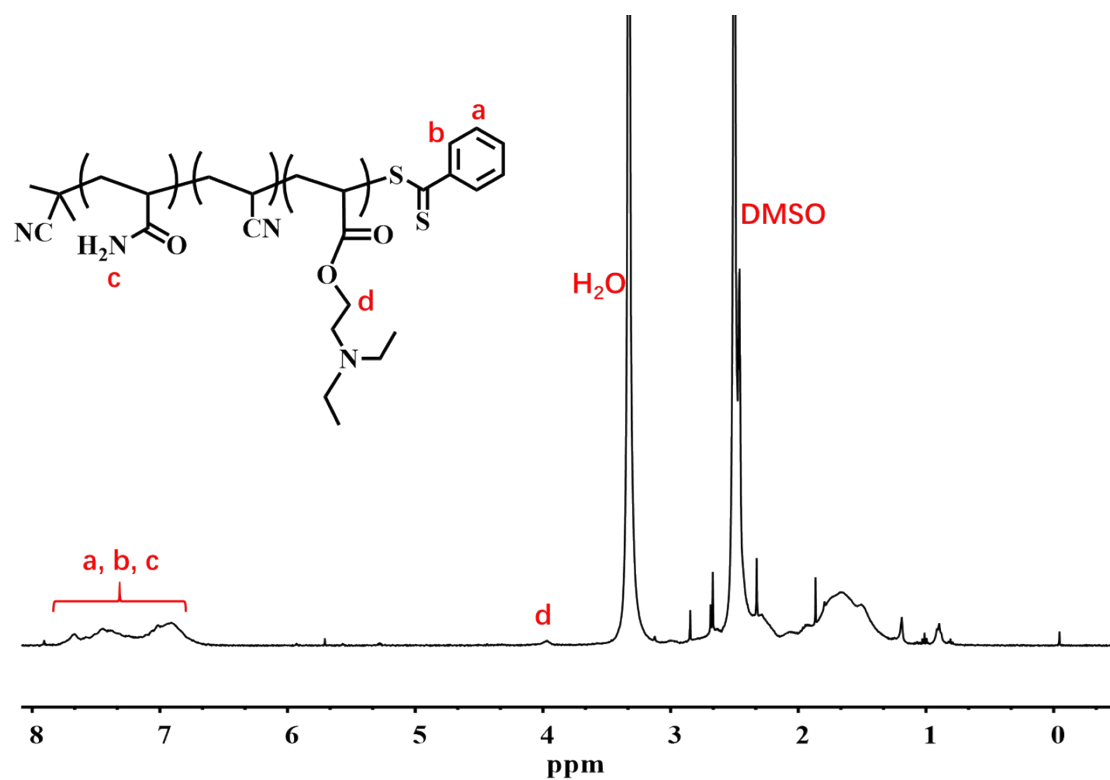


Fig. S3. The ^1H NMR spectrum of $\text{P}(\text{AAm-co-AN})\text{-b-PDMEA}$ in DMSO-d_6 .

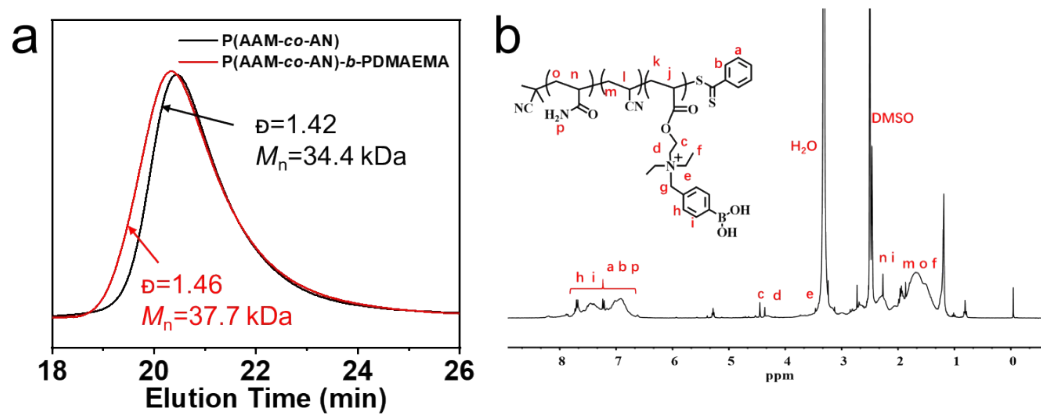


Fig. S4. (a) The GPC curve of $\text{P}(\text{AAM-co-AN})$ and $\text{P}(\text{AAM-co-AN})\text{-b-PDMAEA}$. (b) The ^1H NMR of $\text{P}(\text{AAM-co-AN})\text{-b-P(B-DEAE)}$ in DMSO-d_6 .

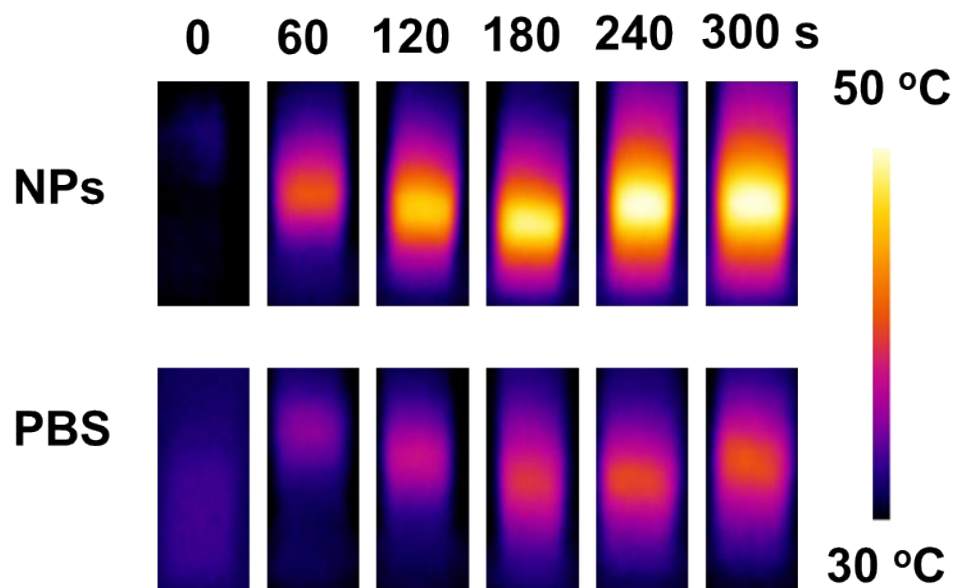


Fig. S5. Temperature changes of CPT-ICG loaded NPs and PBS solution during laser irradiation (808 nm 1.0 W/cm²).

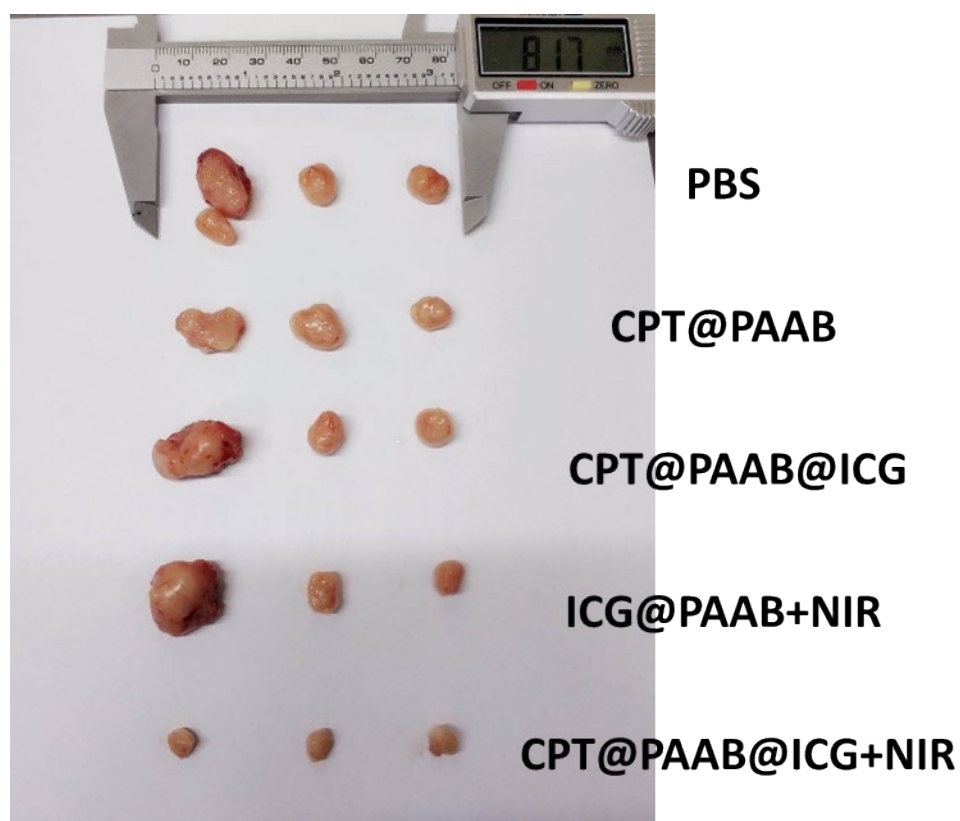


Fig. S6. The tumor pictures at the end of treatment.