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Electronic Supplementary Information

Hollow ZrO₂/PPy Nanoplatform for Improved Drug Delivery and Real-Time CT Monitoring in Synergistic Photothermal-Chemo Cancer Therapy

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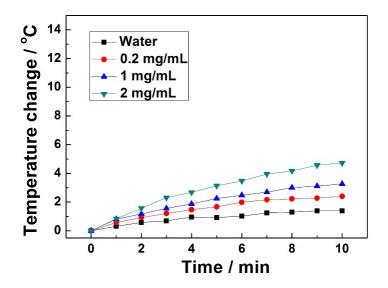


Figure S1. The temperature change of ZrO_2 nanoparticles with different concentrations under 808 nm NIR irradiation (1 W/cm²).

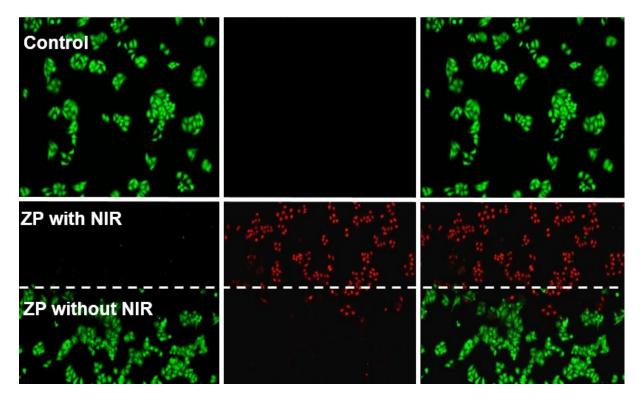


Figure S2 Fluorescence images of HepG2 cells treated with ZPs under NIR irradiation and without NIR irradiation. Calcein-AM and PI were used to differentiate cells, live cells (green) and dead cells (red).

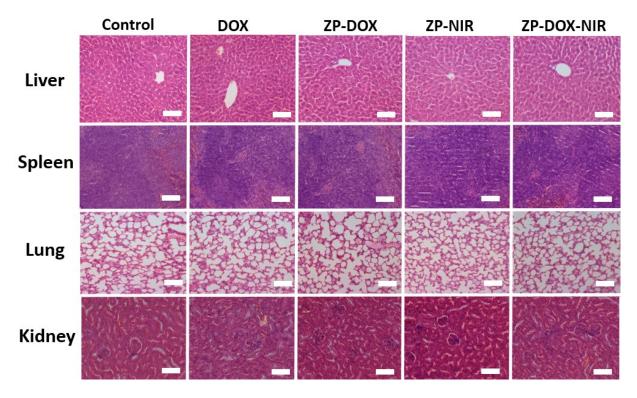


Figure S3 Histological evaluation of liver, spleen, lung and kidney obtained from Balb/c mice treated with ZPs sacrificed after 14 days. All scale bars are 50 μ m.

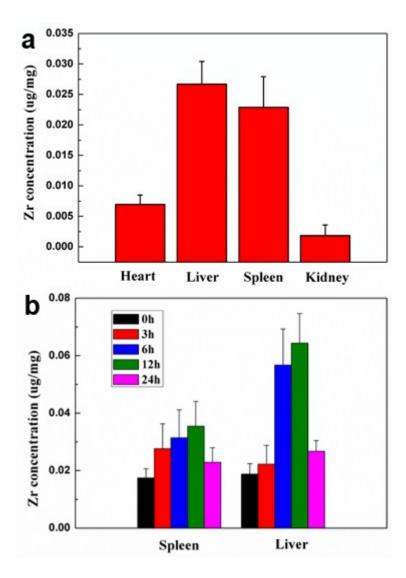


Figure S4 a) ICP-MS results of ZPs in organs of mini swine at 24 h post injection. b) ICP-MS results of ZPs in liver and spleen of mini swine at different time points measured by biopsy.

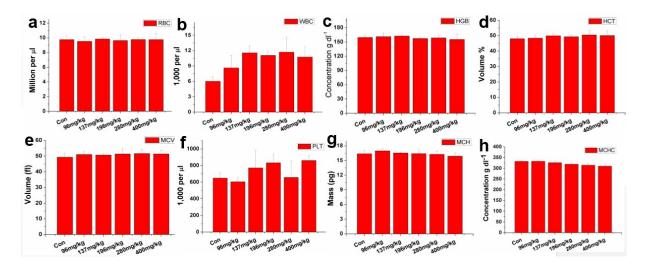


Figure S5 Blood routine indicators of the mice after intravenously injected with ZPs (400 mg/kg, 280 mg/kg, 196 mg/kg, 137 mg/kg, 96 mg/kg and 0 mg/kg) for two weeks.

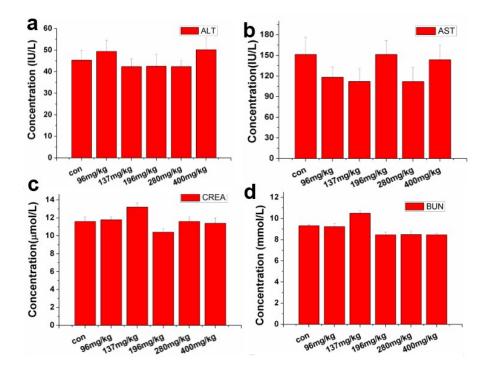


Figure S6 Blood biochemical indicators of the mice after intravenously injected with ZPs (400 mg/kg, 280 mg/kg, 196 mg/kg, 137 mg/kg, 96 mg/kg and 0 mg/kg) for two weeks.

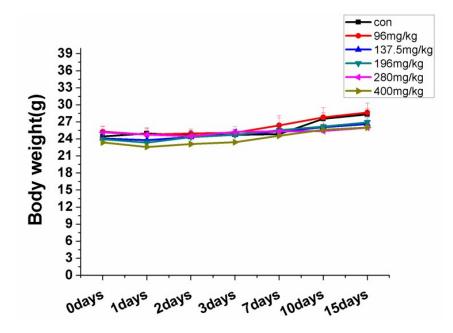


Figure S7 Time-dependent body weight growth curves of healthy mice intravenous injected with ZPs (400 mg/kg, 280 mg/kg, 196 mg/kg, 137 mg/kg, 96 mg/kg and control group).