Supporting information

Persistent luminescence nanoparticles with high intensity for colorectal cancer surgery navigation and precision resection

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Results and discussion

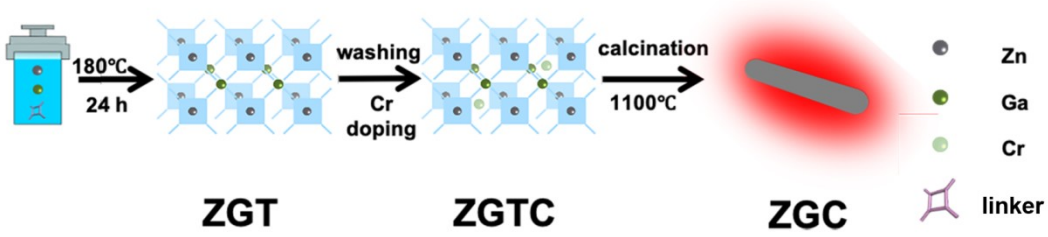

Figure S1. The scheme of MOF-template method for ZGC preparation[1]

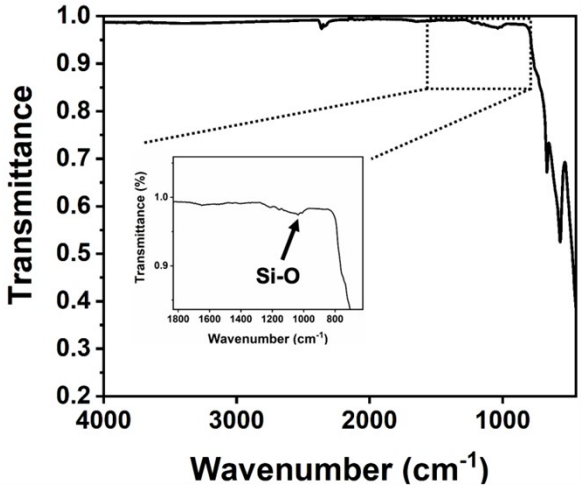

Figure S2. The FT-IR of ZGC-NH_2

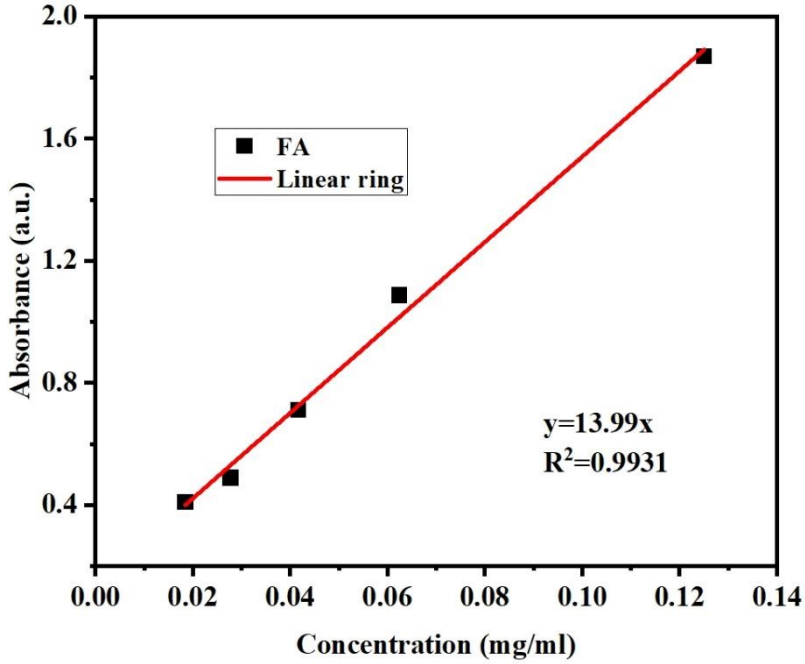

Figure S3. Linear plot of folic acid concentration versus absorbance values with the corresponding linear regression fit (R^2=0.99)

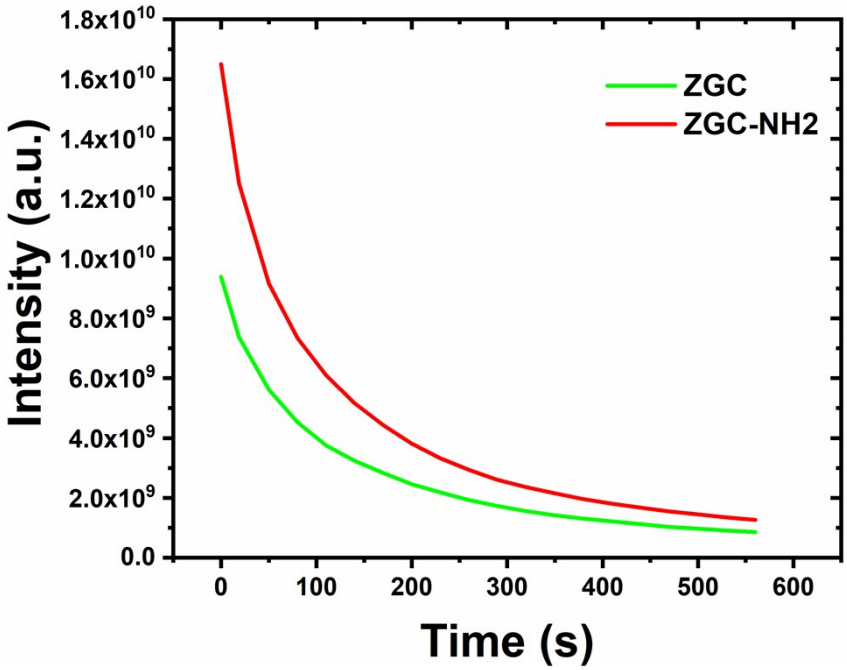

Figure S4. The comparation of PersL curve of ZGC and ZGC-NH_2

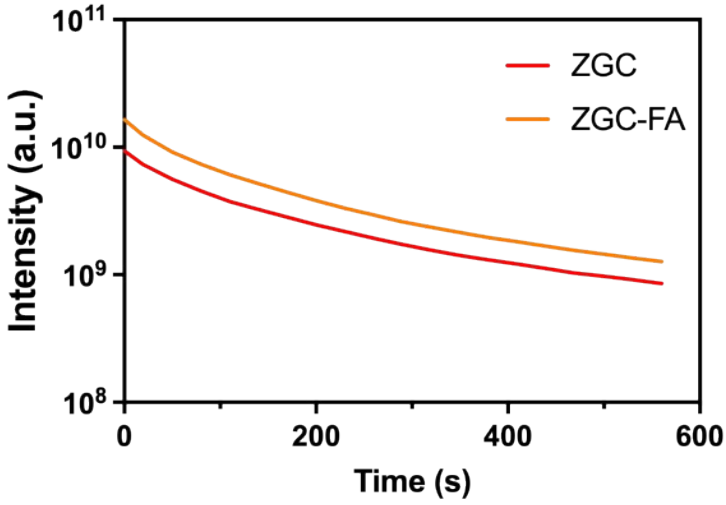

Figure S5. The comparation of PersL curve of ZGC and ZGC-FA

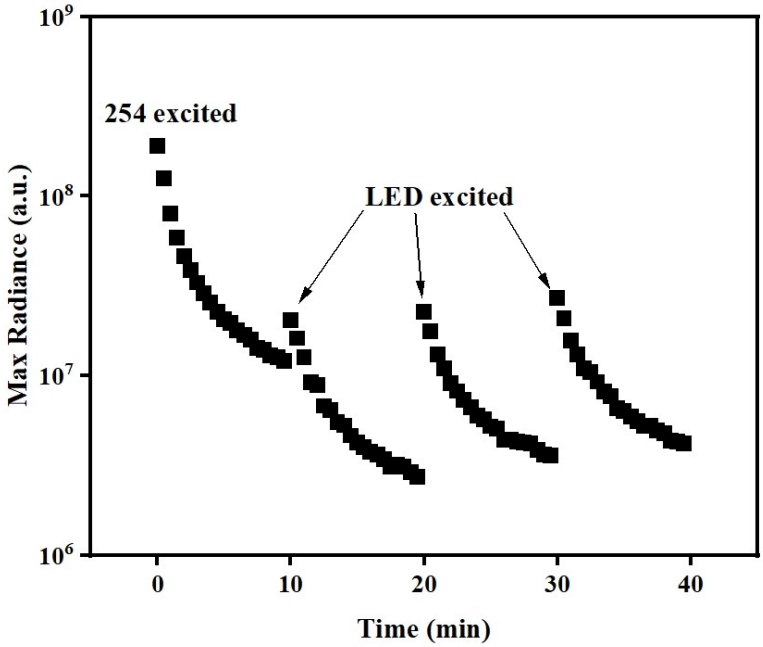

Figure S6. The photostability of ZGC-FA under repeated white light excitation.

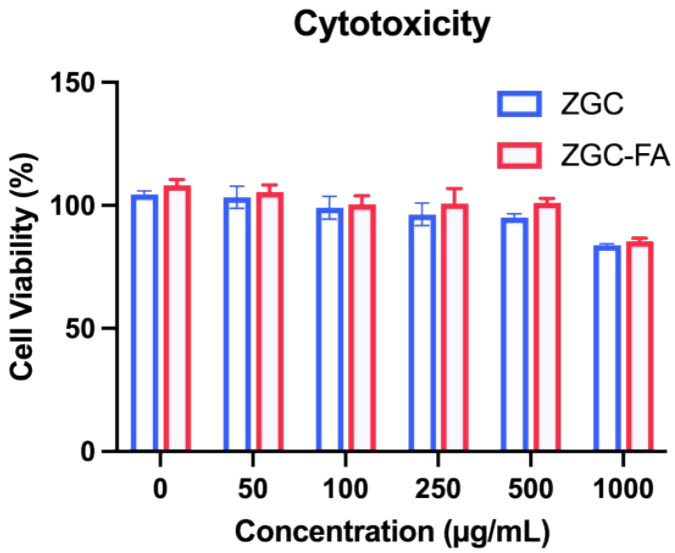

Figure S7. The cytotoxicity of ZGC and ZGC-FA

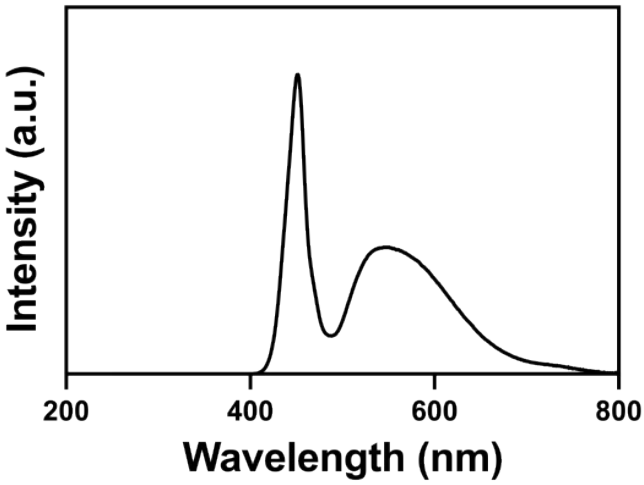

Figure S8. The spectrum of commercial LED lights.

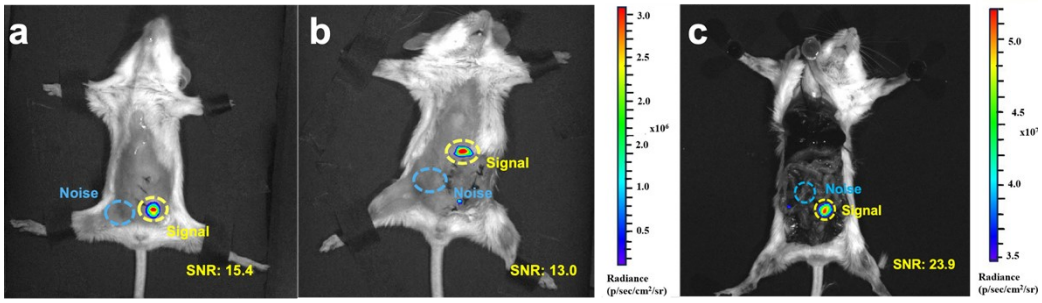

Figure S9. The signal-to-noise ratio (SNR) for preoperative (a-b) and intraoperative PersL imaging (c) (yellow: tumor; blue: noise; the average SNR is 17.6)

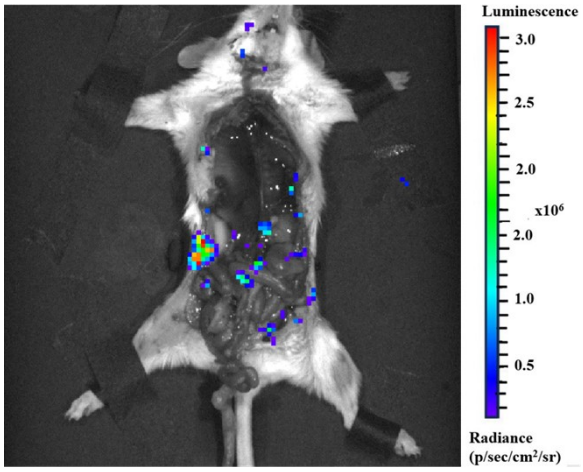

Figure S10. Non-targeted ZGC tumor imaging in mice

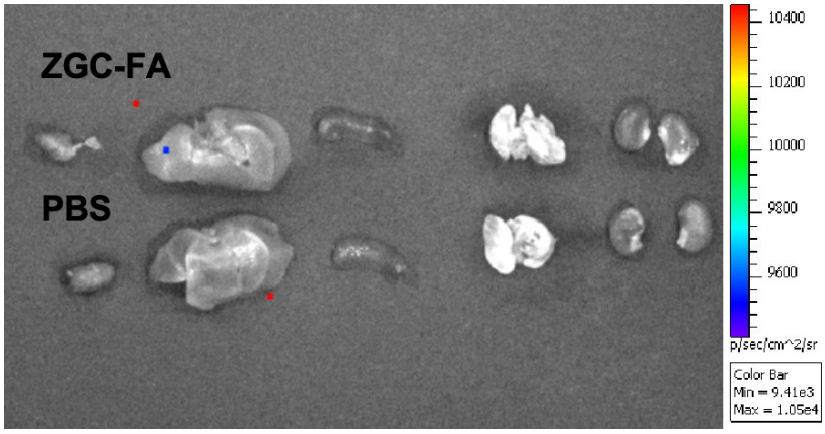

Figure S11. PersL imaging of major organs after 14 days

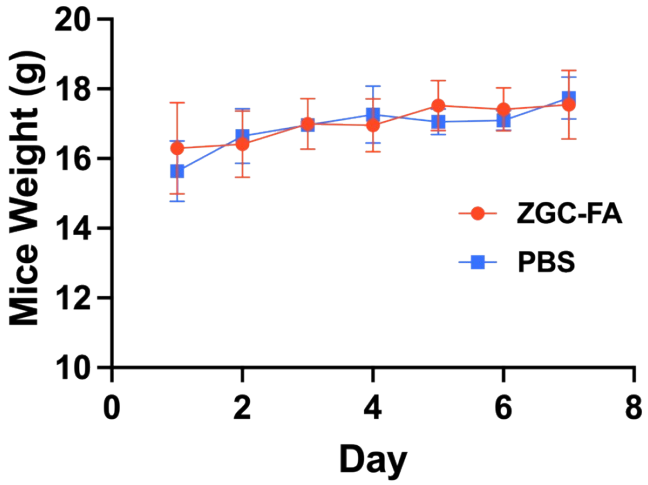

Figure S12. The Weight changes in mice over a period of 7 days (n=5)

Reference

1 Z. Yan, C. Yin, M. Sun, W. Yuan, W. Wang, Q. Wu and Z. Yuan, *J. Mater. Chem. B*, 2023, **11**, 4076–4082.