

Supporting Information

Multifunctional nanocomposites based on graphite-phase carbon nitride quantum dots-silver nanospheres for combined photothermal-photodynamic anti-tumor therapy

Wenjing He^a, Ying Jin^b, Baoping Wang^c, Jie Tan^d, Wenjia Yan^e, Hong Xiao^e, Martin M.F. Choi^f, and Wei Bian^{a,b,g*}

^aDepartment of Biochemistry and Molecular Biology, School of Basic Medical Science, Shanxi Medical University, Taiyuan 030001, China.

^bDepartment of Pathology Xinzhou People's Hospital, Xinzhou 034000, China.

^cPeople's Hospital of Lvliang, Lvliang 033099, China.

^dDepartment of Traditional Chinese Medicine, the First Hospital of Shanxi Medical University, Taiyuan 030001, China.

^eDepartment of Pathology, the First Hospital of Shanxi Medical University, Taiyuan 030001, China.

^fBristol Chinese Christian Church, c/o Tyndale Baptist Church, 137-139 Whiteladies Road, Bristol BS8 2QG, UK.

^gKey Laboratory of Cellular Physiology at Shanxi Medical University, Ministry of Education, Taiyuan 030001, China.

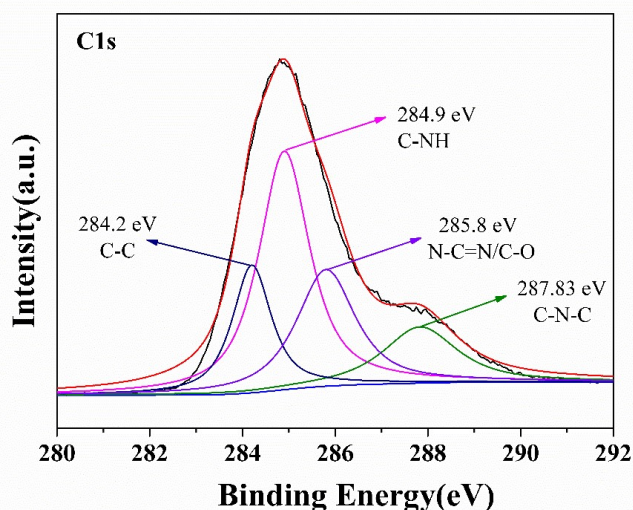


Figure S1. High-resolution C1s spectrum of g-CNQDs@AgNSs.

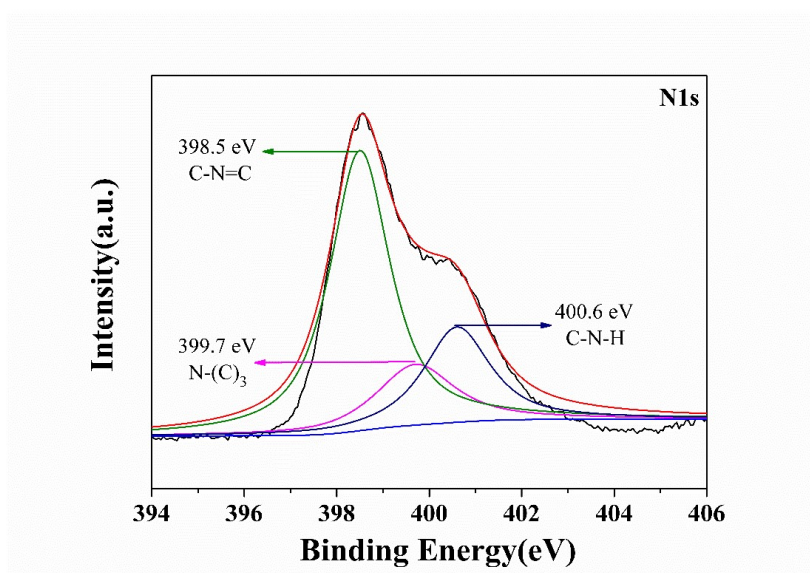


Figure S2. High-resolution N1s spectrum of g-CNQDs@AgNSs.

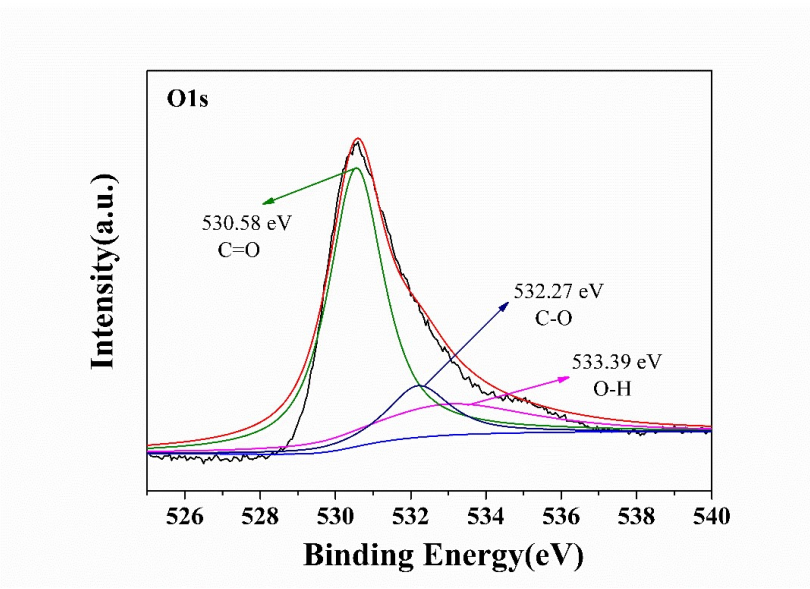


Figure S3. High-resolution O1s spectrum of g-CNQDs@AgNSs.

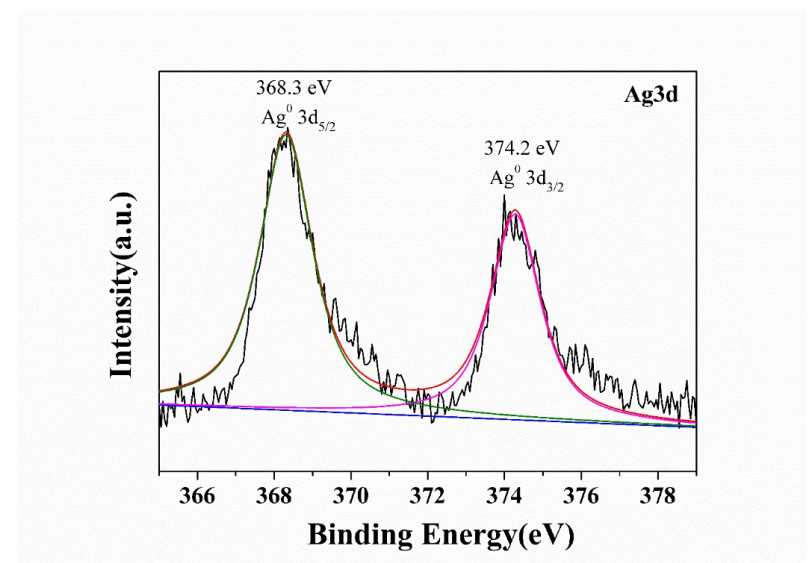


Figure S4. High-resolution Ag3d spectrum of g-CNQDs@AgNSs.

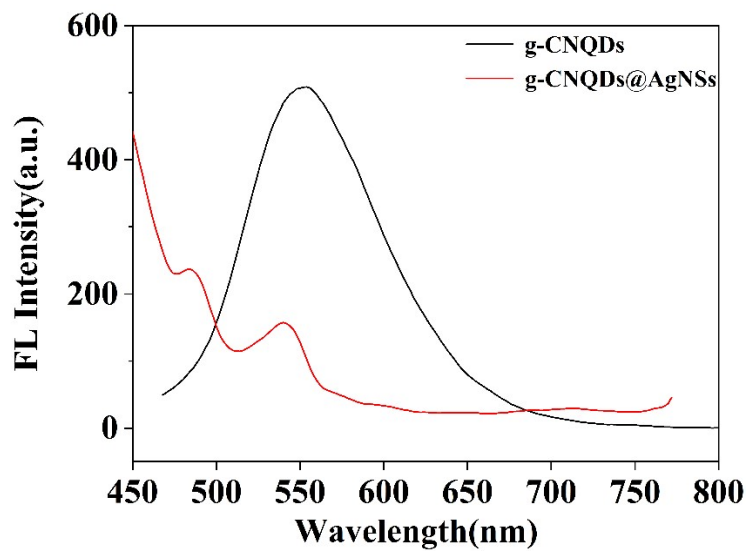


Figure S5. Fluorescence spectra of g-CNQDs and g-CNQDs@AgNSs.

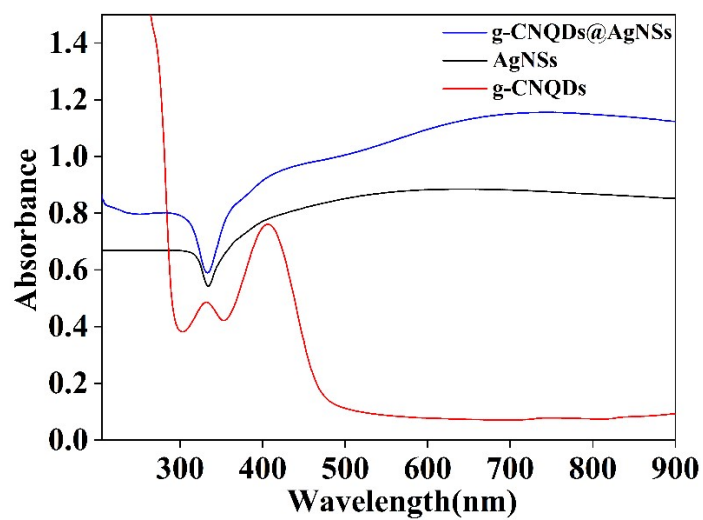


Figure S6. UV-visible absorption spectra of g-CNQDs, AgNSs and g-CNQDs@AgNSs.

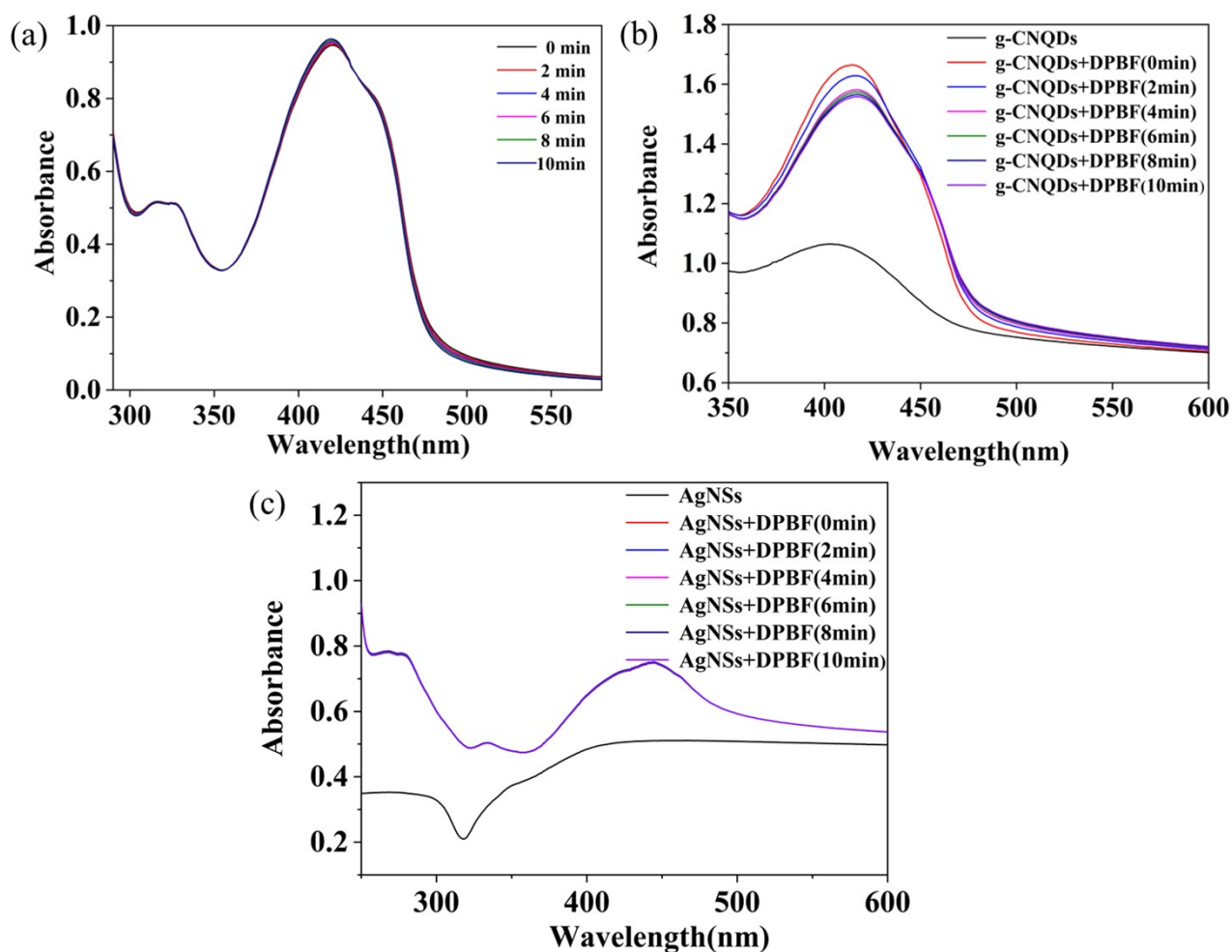


Figure S7. Absorbance of (a) DPBF, (b) g-CNQDs and DPBF, and (c) AgNSs and DPBF at various times under NIR irradiation.

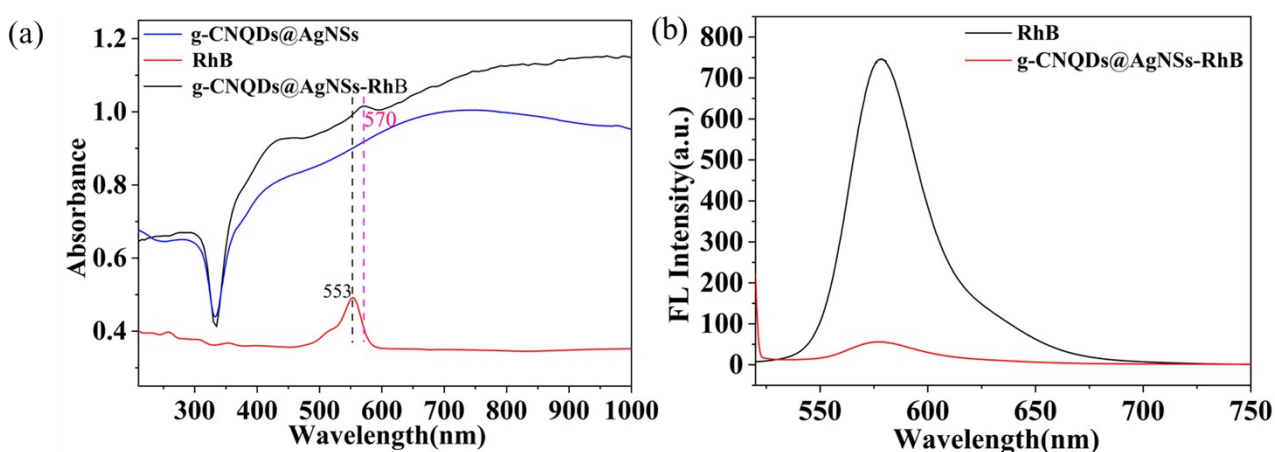


Figure S8. (a) UV-visible absorption spectra of g-CNQDs@AgNSs, RhB, and g-CNQDs@AgNSs-RhB. (b) Fluorescence spectra of RhB and g-CNQDs@AgNSs-RhB.

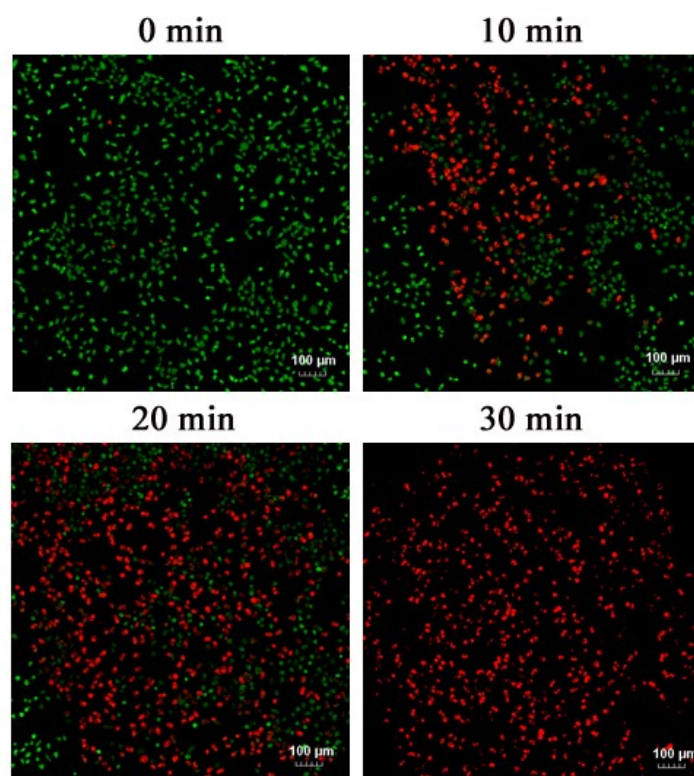


Figure S9. CLSM images of MCF-7 cells incubated by 250 $\mu\text{g}/\text{mL}$ g-CNQDs@AgNSs and irradiated with NIR at various durations (0–10 min).