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Electronic Supplementary Information for:

Injectable and self-healing nanocomposite hydrogel loading needle-like nano-hydroxyapatite and graphene oxide for the synergistic tumour proliferation inhibition and photothermal therapy

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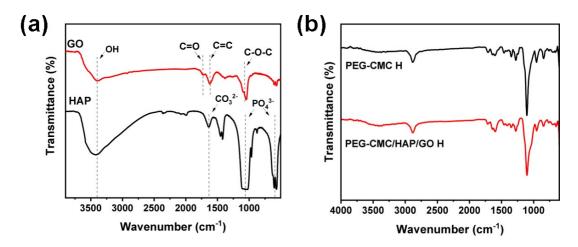


Fig. S1 (a) FT-IR spectra of GO and HAP. (b) ATR FT-IR spectra of PEG-CMC hydrogel and PEG-CMC/HAP/GO hydrogel.

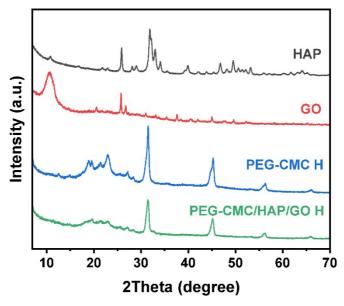


Fig. S2 XRD spectra of GO, HAP, PEG-CMC hydrogel and PEG-CMC/HAP/GO hydrogel.

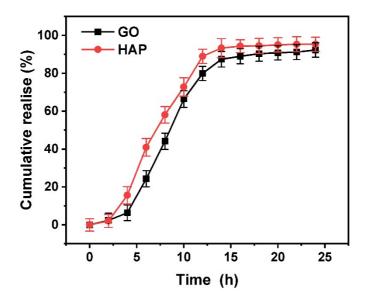


Fig. S3 The GO and HAP release profile of the PEG-CMC/HAP/GO hydrogel.

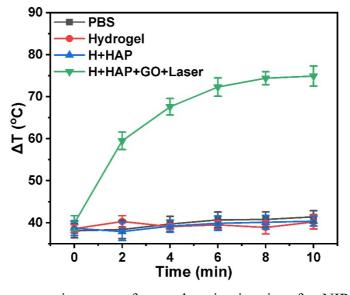


Fig. S4 Temperature rise curve of tumor location in mice after NIR irradiation.

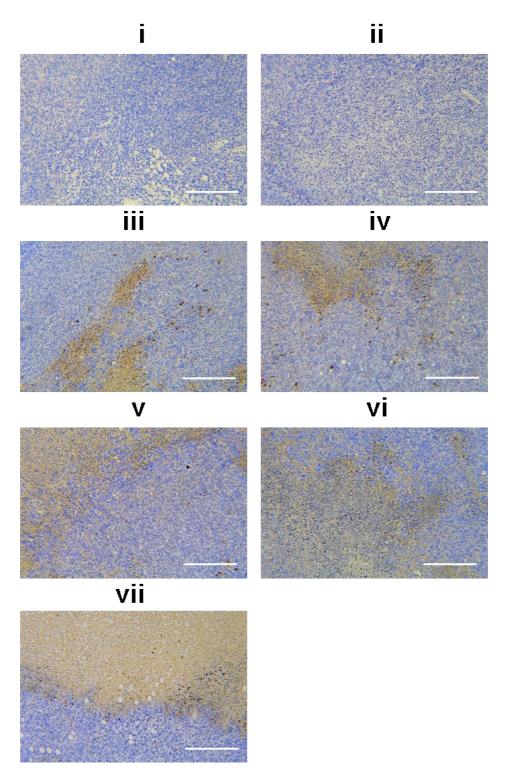


Fig. S5 TUNEL analysis of tumours under different treatments (i-vii: PBS, Hydrogel, Hydrogel+HAP, Hydrogel+HAP+GO, HAP+GO+Laser, Hydrogel+GO+Laser, Hydrogel+HAP+GO+Laser) (scale bar: 300 μm).