

Penetration depth tunable BODIPY derivatives for tumor acidity activating enhanced photothermal/photodynamic synergistic therapy

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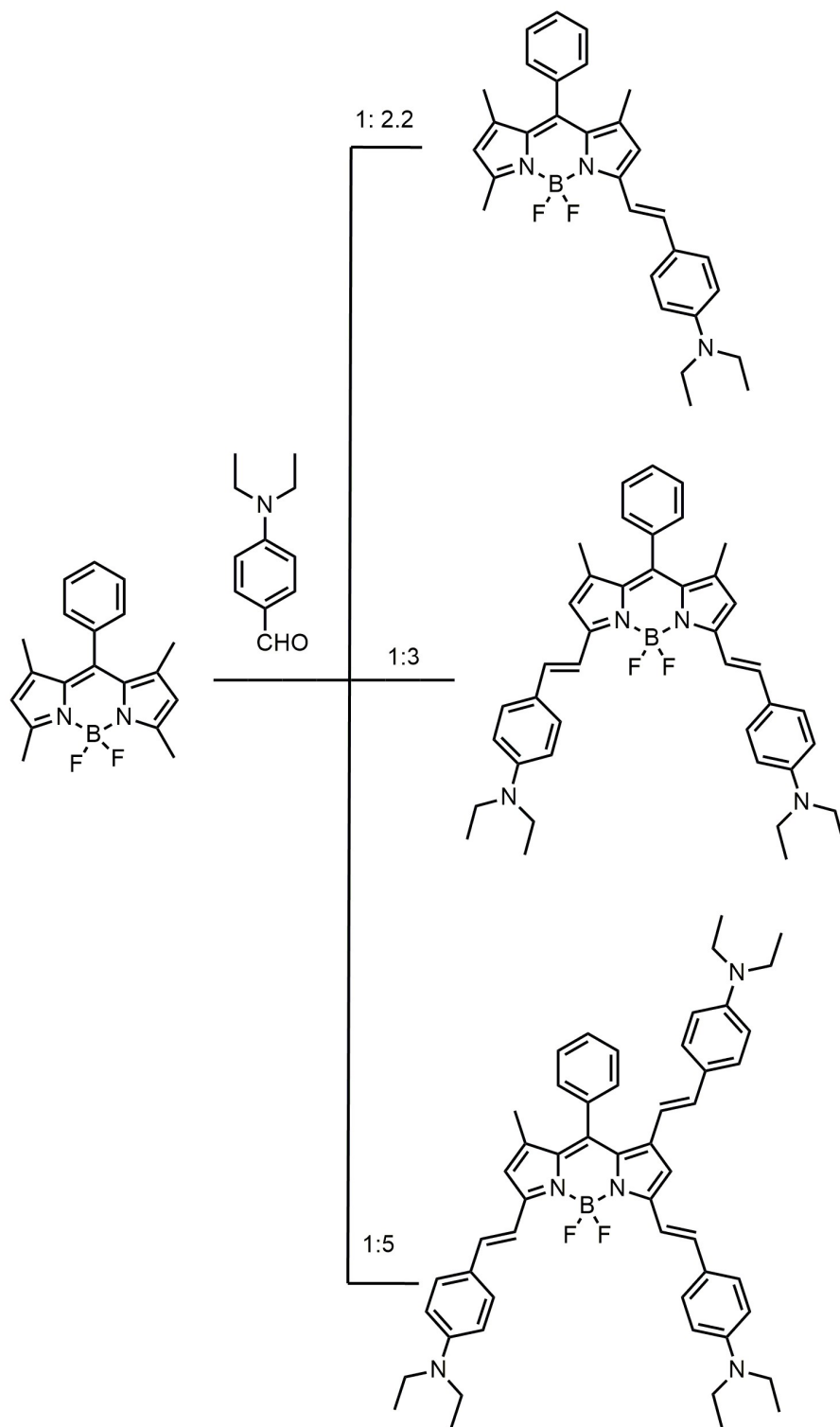


Figure S1. Synthetic route of BDPmPh, BDPbiPh and BDPtriPh

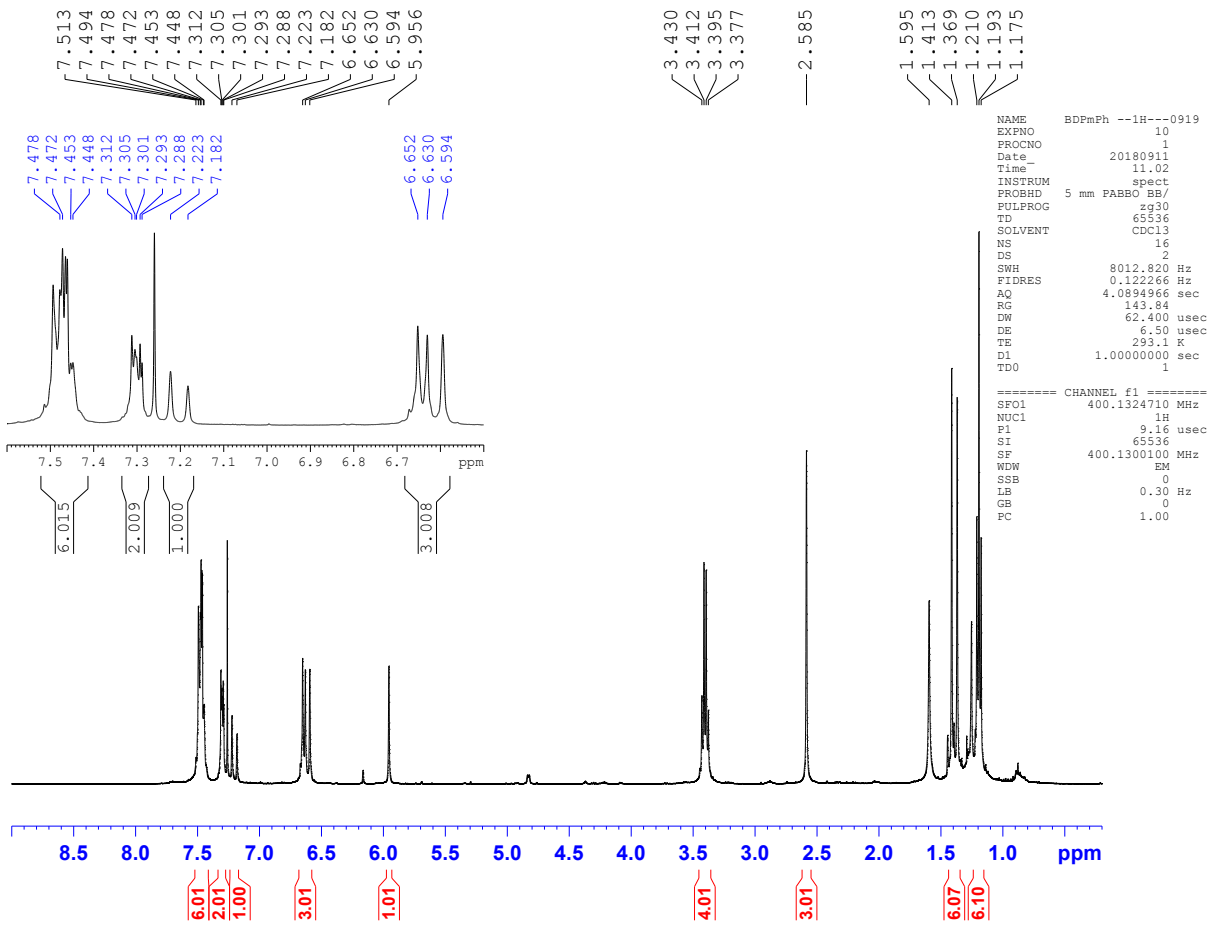


Figure S2. ¹H NMR of BDPmPh in CDCl₃.

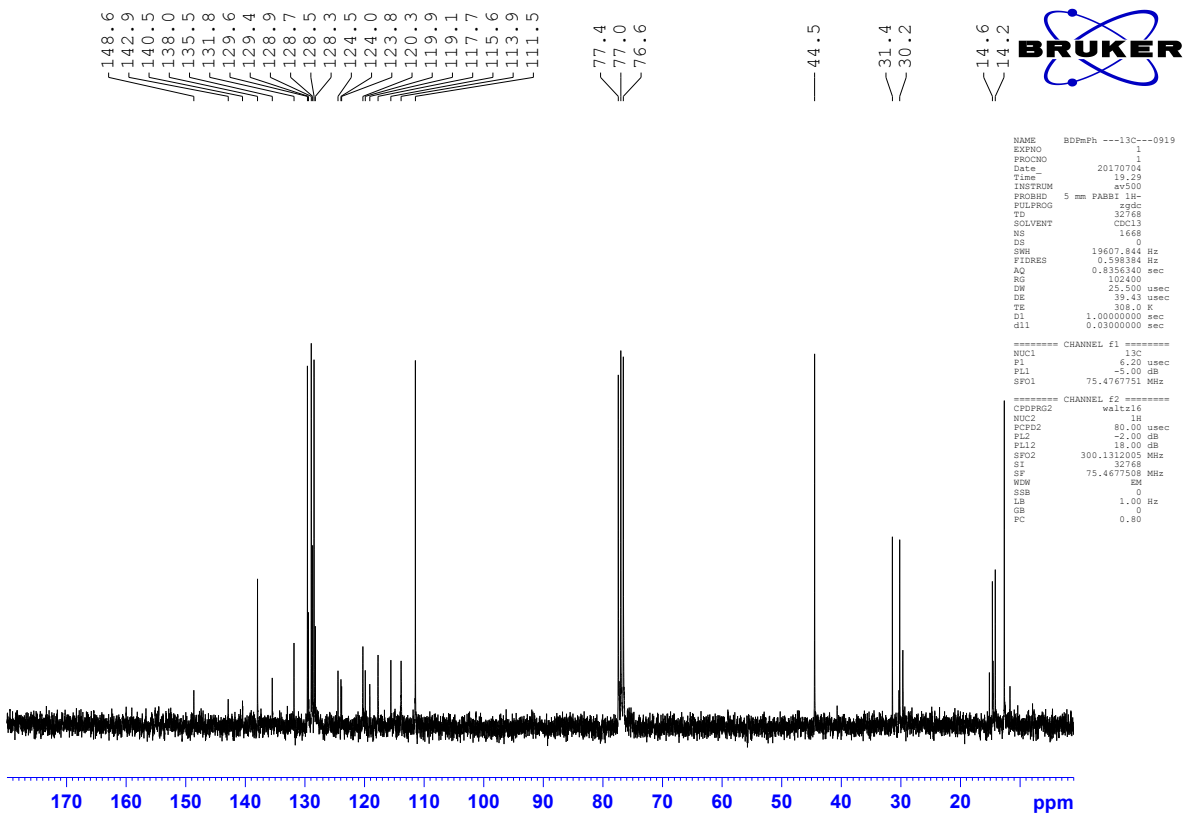


Figure S3. ^{13}C NMR of BDPmPh in CDCl_3 .

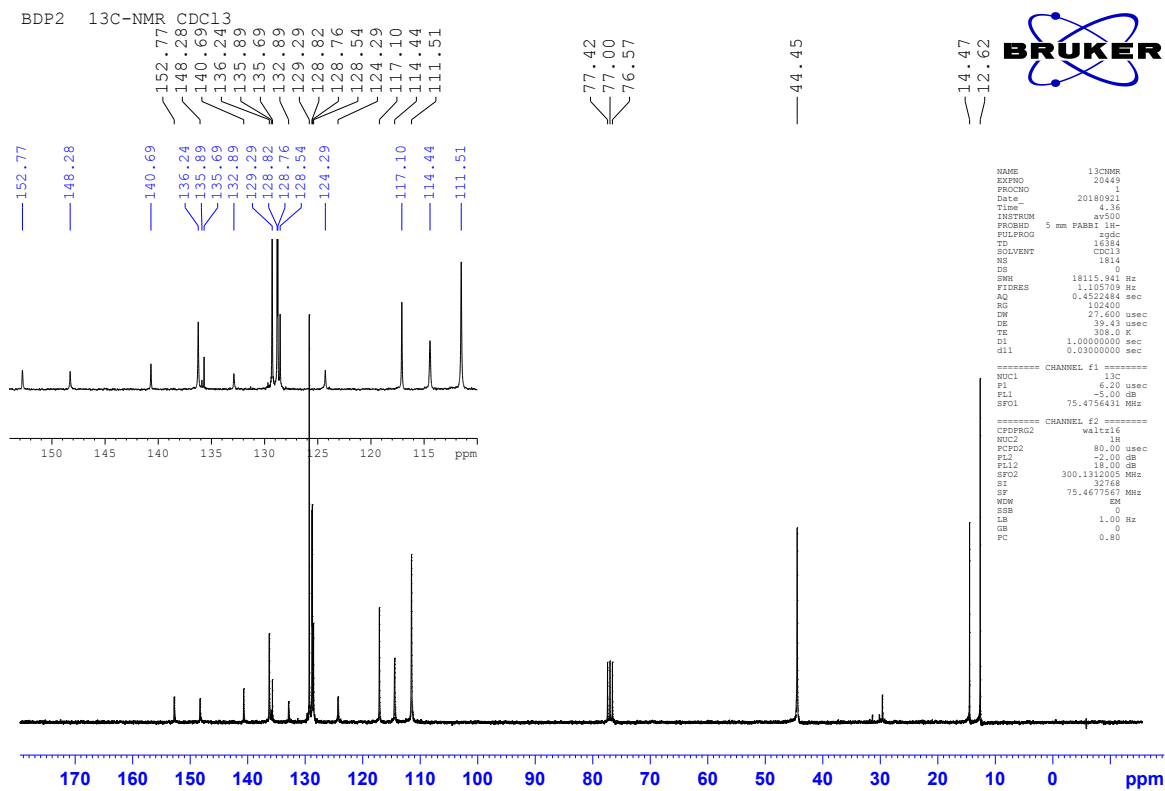


Figure S5. ¹³C NMR of BDPbiPh in CDCl₃.

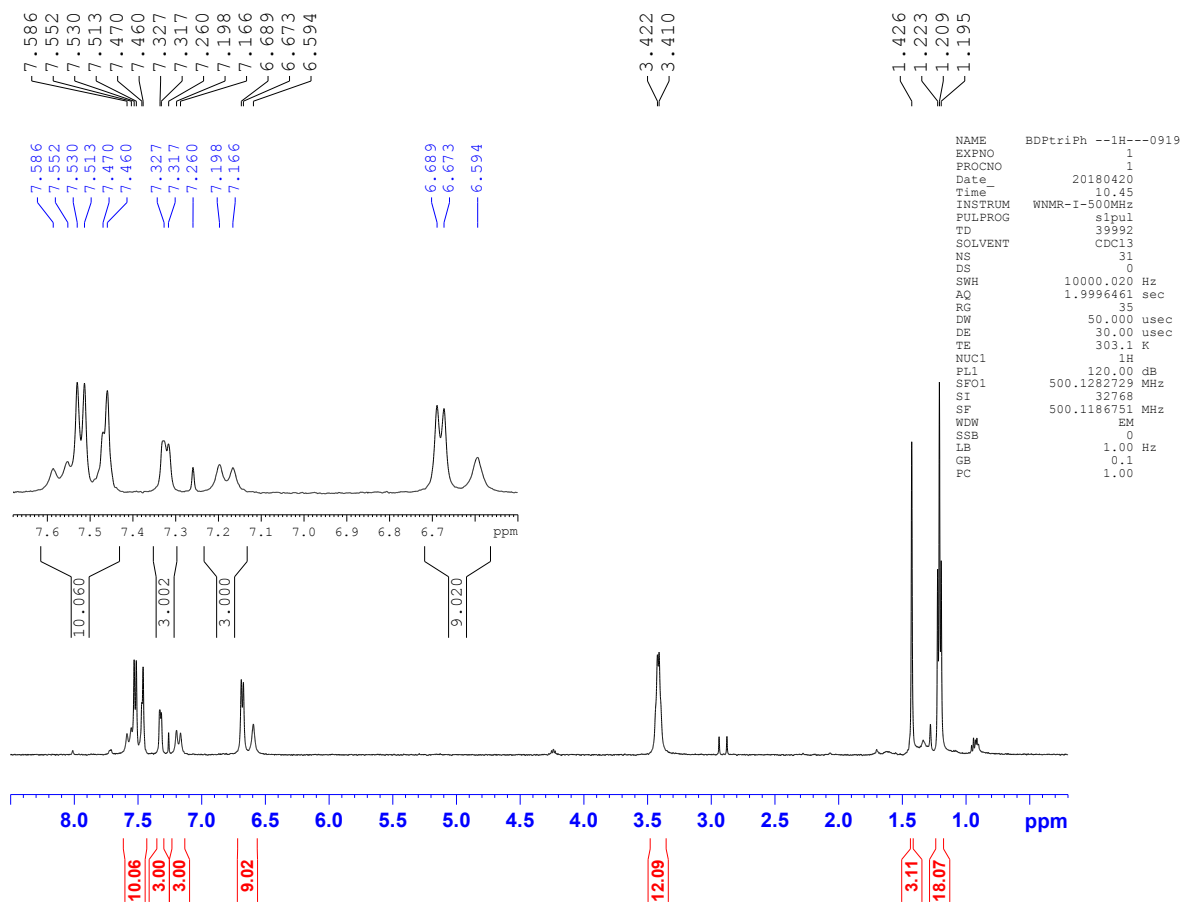


Figure S6. ^1H NMR of BDPtriPh in CDCl_3 .

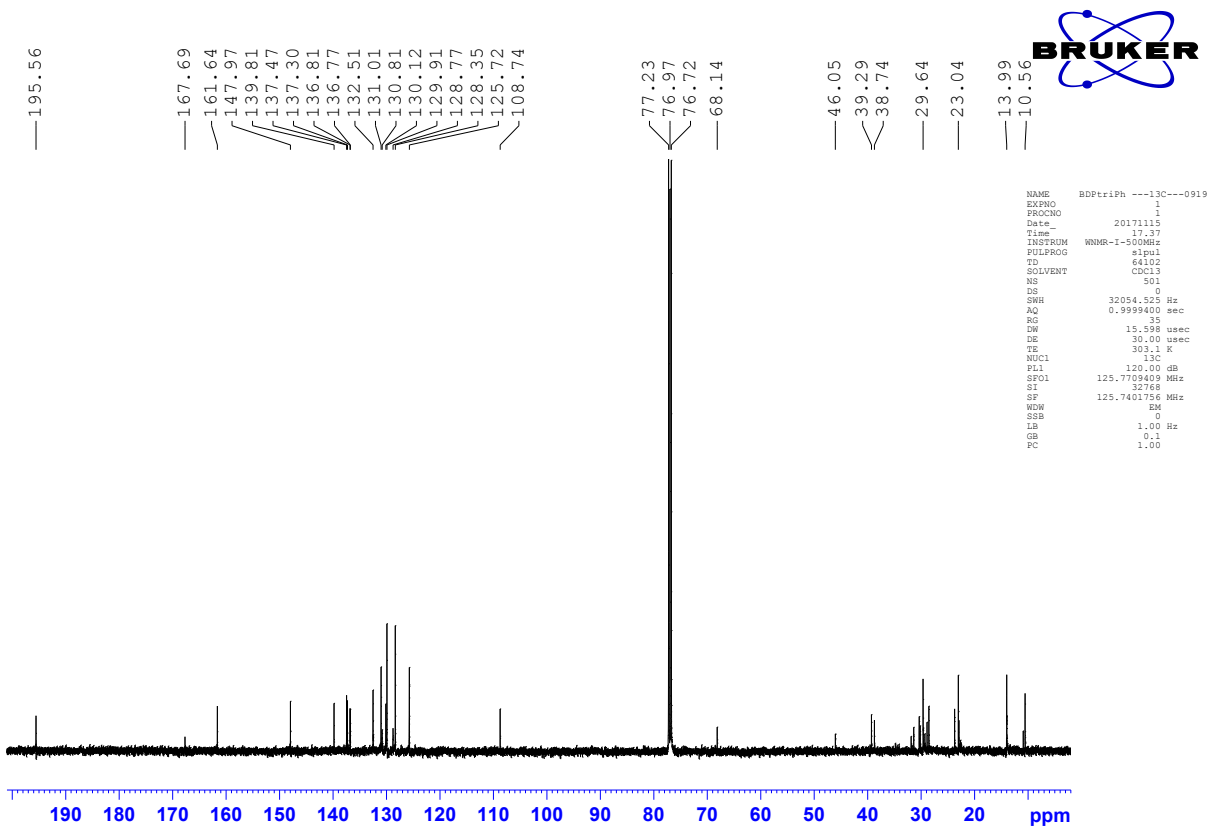


Figure S7. ¹³C NMR of BDPtriPh in CDCl₃.

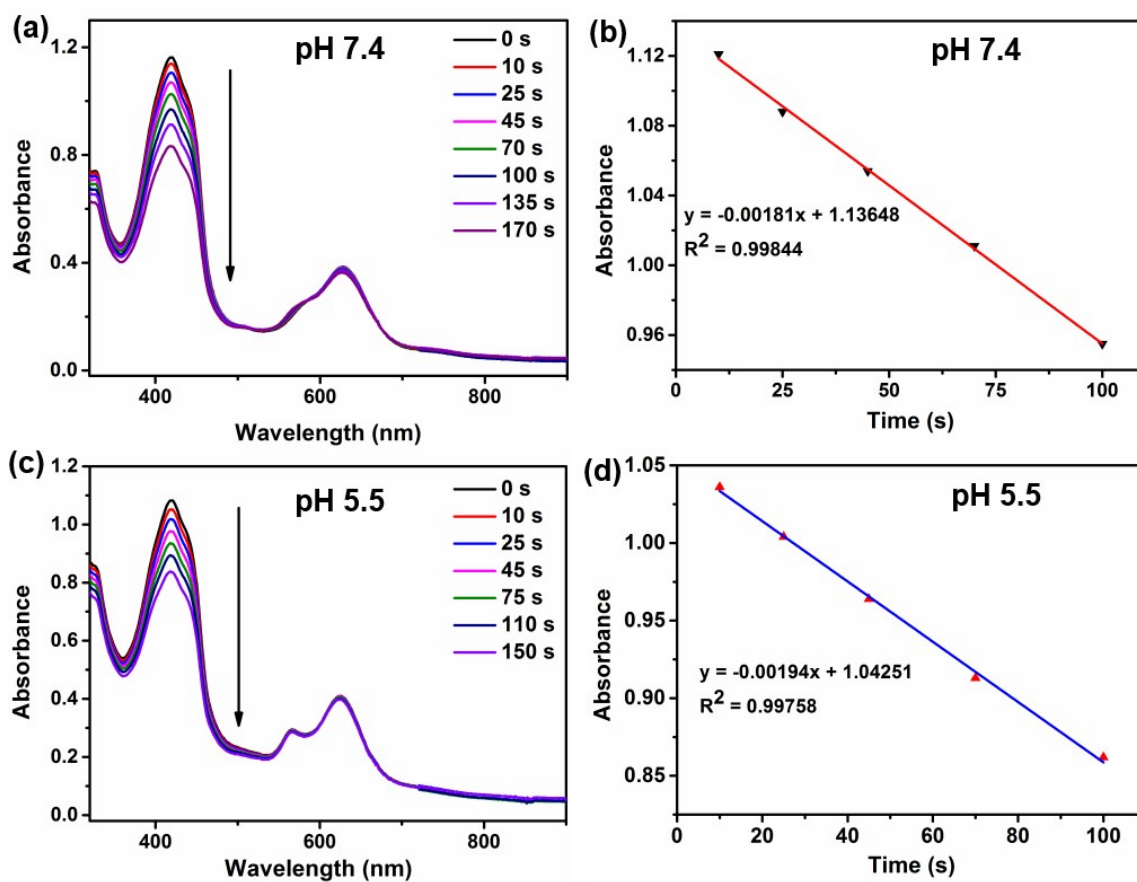


Figure S8. (a, b) Degradation of DPBF in the presence of BDPmPh NPs and linear fitting in PBS. (c, d) Degradation of DPBF in the presence of BDPmPh NPs and linear fitting in PBS.

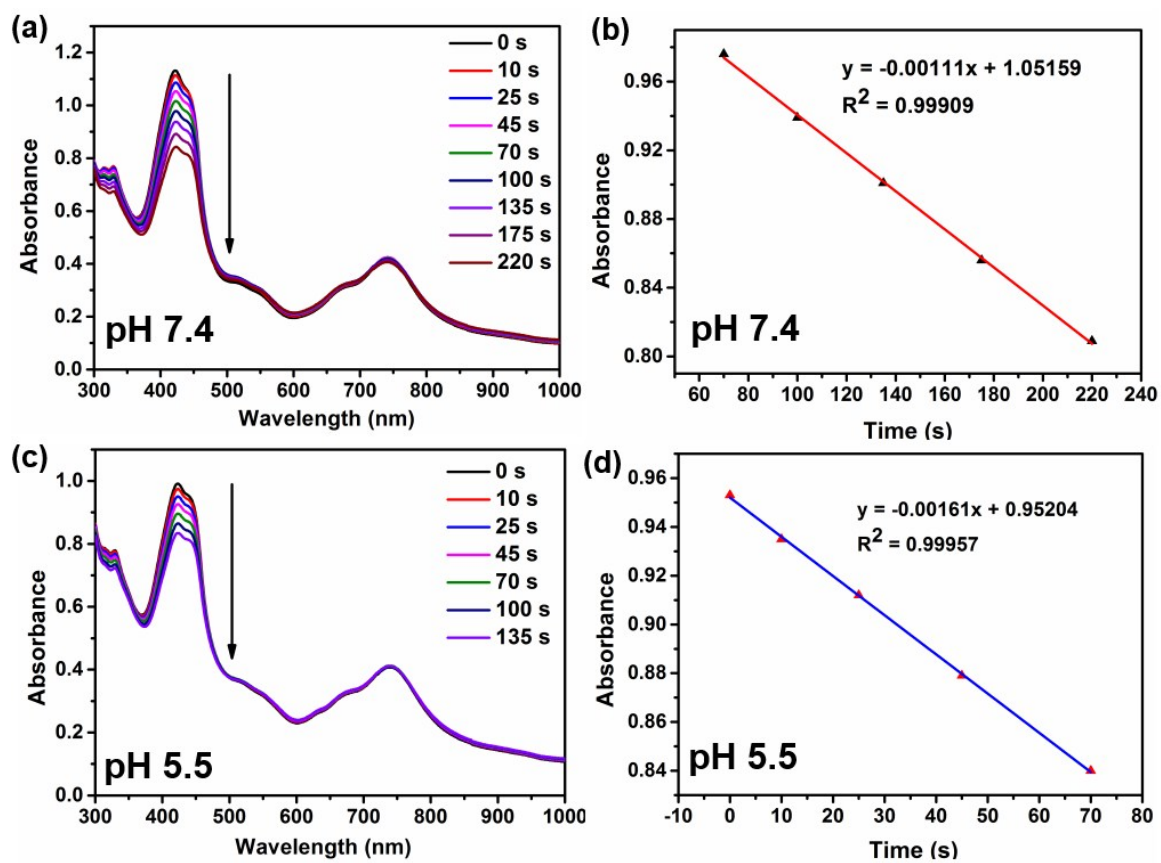


Figure S9. (a, b) Degradation of DPBF in the presence of BDPbiPh NPs and linear fitting in PBS. (c, d) Degradation of DPBF in the presence of BDPbiPh NPs and linear fitting in PBS.

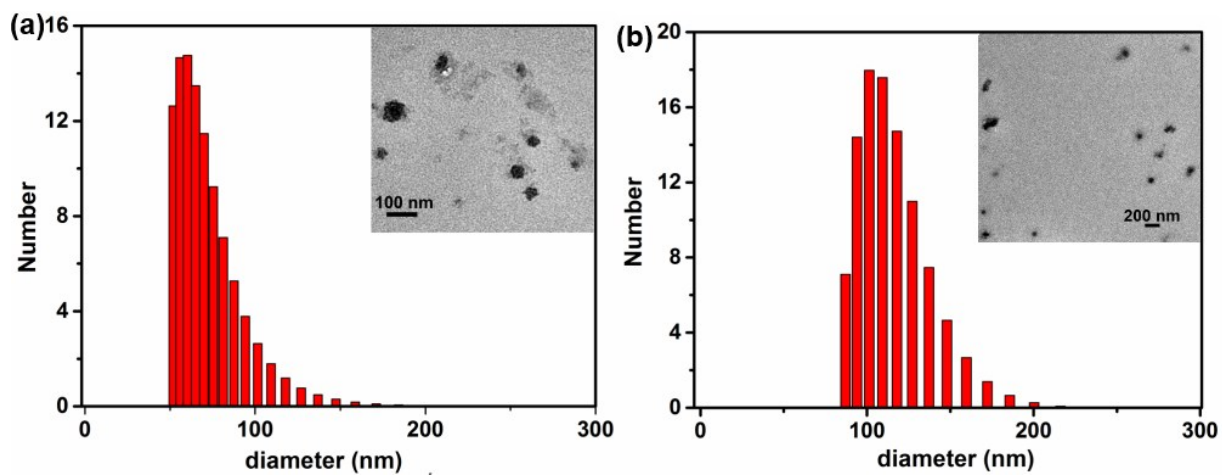


Figure S10. TEM image and DLS of (a) BDPmPh NPs and (b) BDPbiPh NPs.

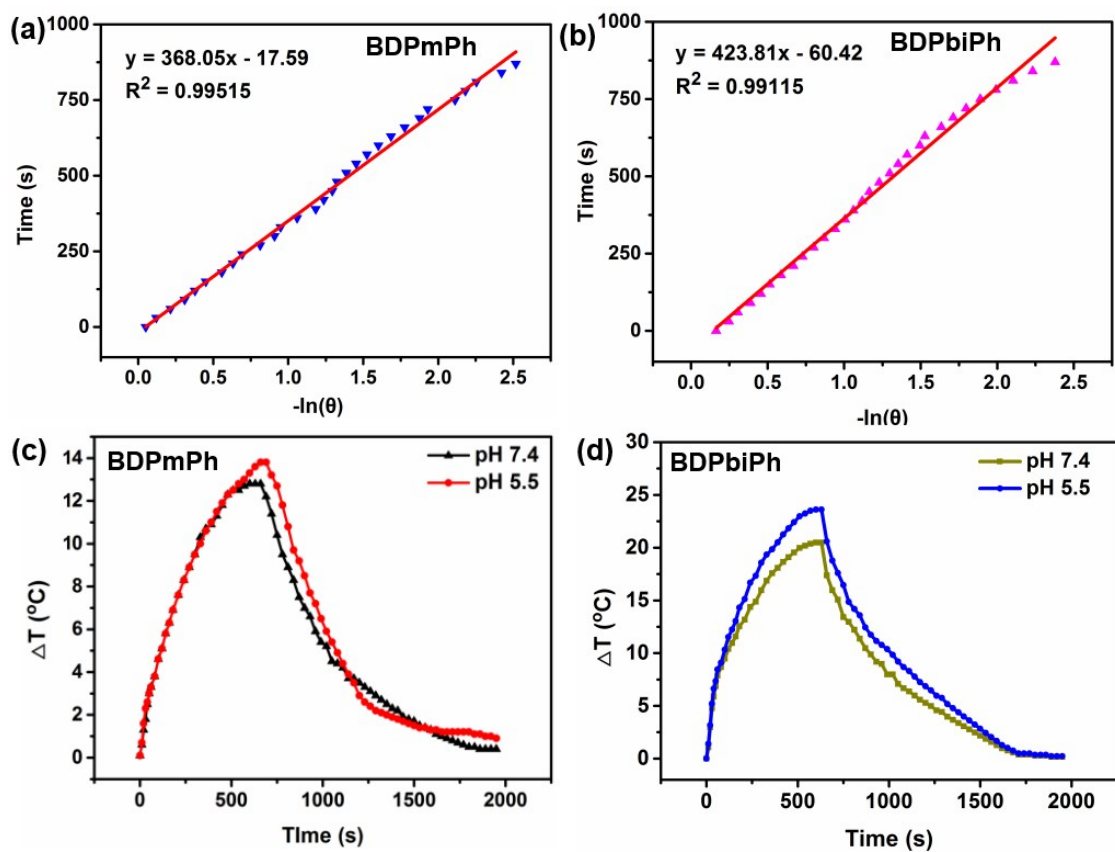


Figure S11. Linear fitting of $-\ln\theta$ and time of (a) BDPmPh (b) BDPbiPh NPs. Temperature change of (c) BDPmPh NPs with laser irradiation (660 nm, 1 W/cm²). (d) BDPbiPh NPs with laser irradiation (730 nm, 1 W/cm²) at different pH.

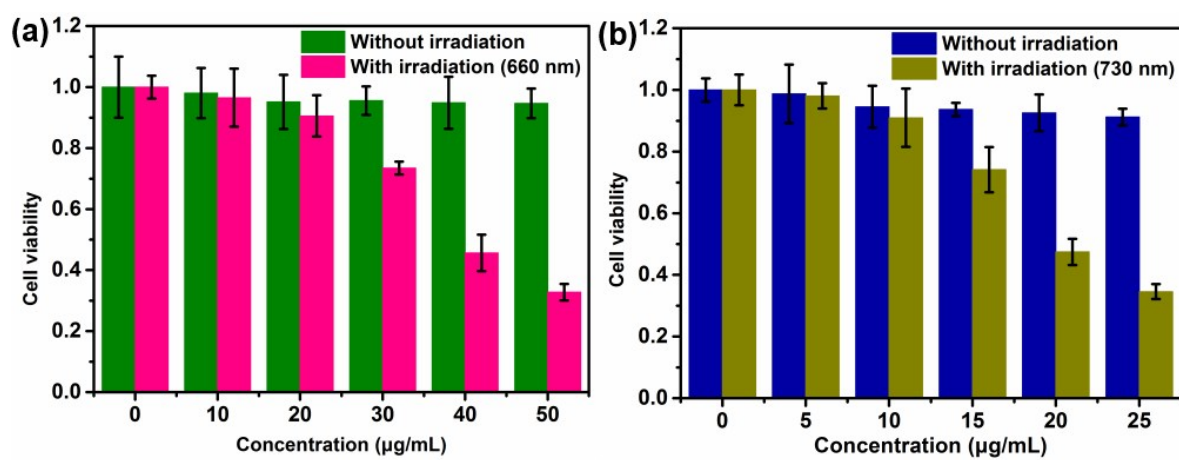


Figure S12. MTT assay of (a) BDPmPh and (b) BDPbiPh NPs with or without irradiation (BDPmPh: 660 nm, 1 W/cm², BDPbiPh: 730 nm, 1 W/cm²)