**Supporting Information**

**Fabrication of doxorubicin-gated mesoporous polydopamine nanoplatforms for multimode imaging-guided synergistic chemophotothermal therapy of tumors**

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**Figure S1.** Fourier transform infrared (FT-IR) spectra of MPDA (black line) and MPDA-DOX NPs (red line).

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**Figure S2.** Photostability tests of MPDA NPs for three cycles of NIR laser irradiation.

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**Figure S3.** Corresponding relative mean fluorescence intensity of PC3 cells incubated with MPDA-DOX and PFP@MPDA-DOX without or with NIR laser irradiation.

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**Figure S4.** Cell viabilities of HUVEC, PC3, HepG2, and L929 cells after incubation with various doses of blank MPDA NPs for 24 h. Data are given as the mean ± SD (n = 5).

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**Figure S5.** Temperature recording of tumor site upon 10 min 808 nm laser exposure (1.0 W cm-2) after intravenous injected with PBS and PFP@MPDA-DOX at 12 h.

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**Figure S6.** H&E stained histological images of major organs (heart, liver, spleen, lung, and kidney) from mice treated with PBA and PFP@MPDA-DOX NPs. Scale bar: 50 µm.