Supporting Information

Bioinspired Polydopamine-FeS nanocomposite with high antimicrobial efficiency via NIR-mediated Fenton reaction

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Fig. S1 UV-vis spectra of the solution at different synthesis stages.



Fig. S2 Elemental analysis of the PDA@FeS NPs.



Fig. S3 Zeta potential of PDA, PDA-Fe(II) and PDA@FeS



Fig. S4 (a) UV-Vis-NIR absorption spectra of the PDA@FeS solution with various concentrations;(b) Linear fitting of the relationship between concentration and absorbance at 808 nm.



Fig. S5 The infrared thermography of PDA@FeS solution with various concentrations under NIR laser irradiation (808 nm, 1.0 W/cm²).



Fig. S6 UV-Vis-NIR absorption of PDA@FeS solution before and after four laser ON/OFF cycles.



Fig. S7 The photothermal conversion efficiency of PDA.



Fig. S8 The photothermal conversion efficiency of PDA-Fe(II).



Fig. S9 Cytotoxicity assessment in HEK293T cells after 24 h incubation with the PDA@FeS NPs



Fig. S10 The release of cytoplasmic contents of *S. aureus* with different exposure times. (a) Absorption curve of cytoplasmic contents; (b) Change of absorption intensity at 260 nm.