

Supporting Information

A multifunctional hydrogel dressing for effective wound antibacterial and healing

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Table S1. Ag content of different samples prepared with different concentrations of NaBH₄.

NaBH ₄	2.5 mM	5 mM	10 mM
Ag (Atomic %)	4.41	8.54	9.86

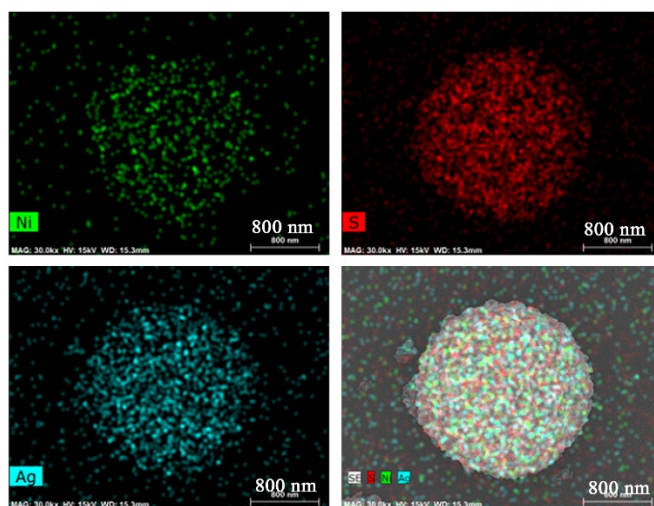


Fig.S1 SEM-EDS mapping of Ag(8.5%)@NiS_{2-x}.

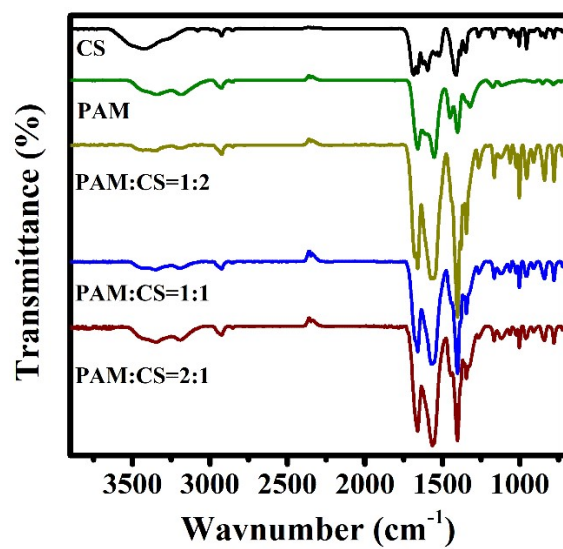


Fig. S2 FT-IR spectra of chitosan, polyacrylamide, and PAM/CS hydrogels.

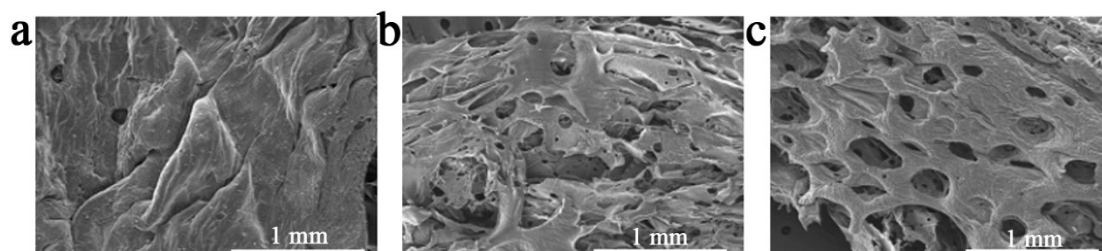


Fig.S3 Low-magnification SEM images of (a) dressing-2:1, (b) dressing-1:1, and (c) dressing-1:2.

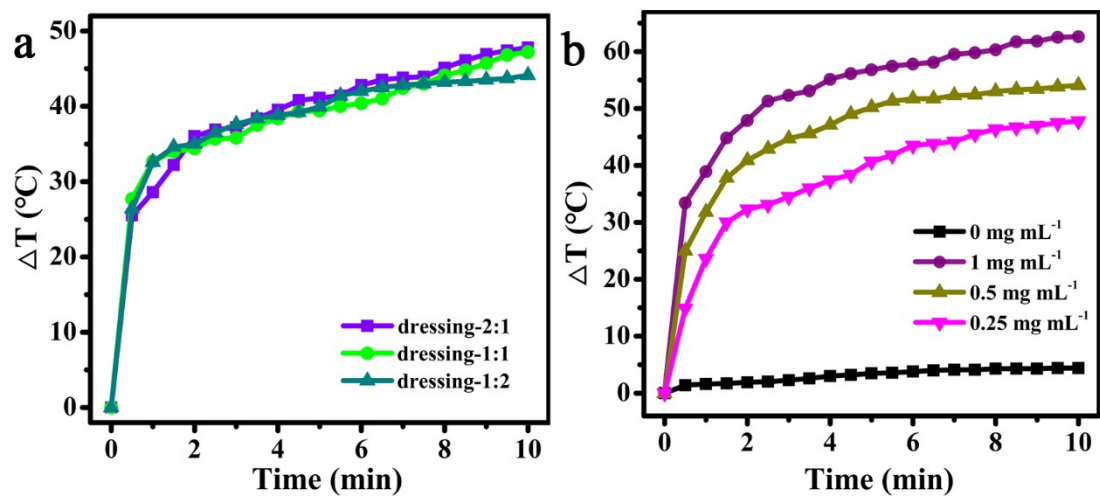


Fig.S4 (a) Photothermal curves of different dressings under irradiation of NIR laser. (b) Photothermal curves of dressing-2:1 containing different concentration of $\text{Ag}(8.5\%)\text{@NiS}_{2-x}$.

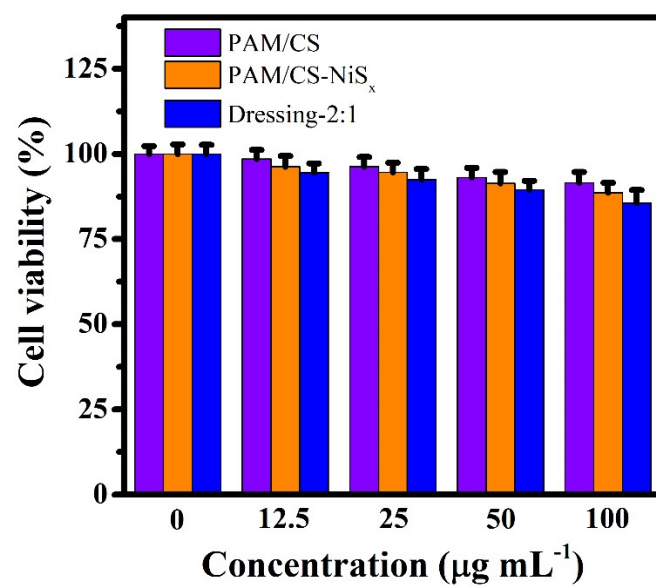


Fig. S5 Relative cell viability after treatment with various concentrations of PAM/CS, PAM/CS-NiS_x and dressing 2:1.

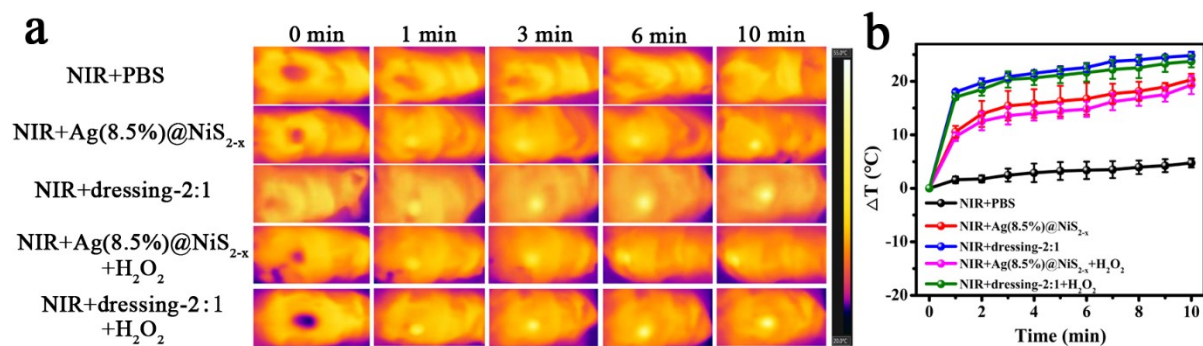


Fig.S6 (a) Infrared thermal images of mice and (b) corresponding temperature curves.