

Supporting information for

**Dual photothermal nanocomposites for drug-resistant
infectious wound management**

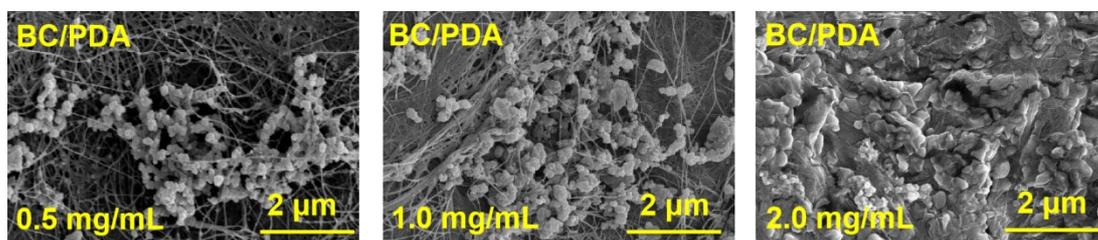


Figure S1. Representative SEM images of BC/PDA samples fabricated with different PDA concentrations (0.5, 1.0 and 2.0 mg/mL of dopamine).

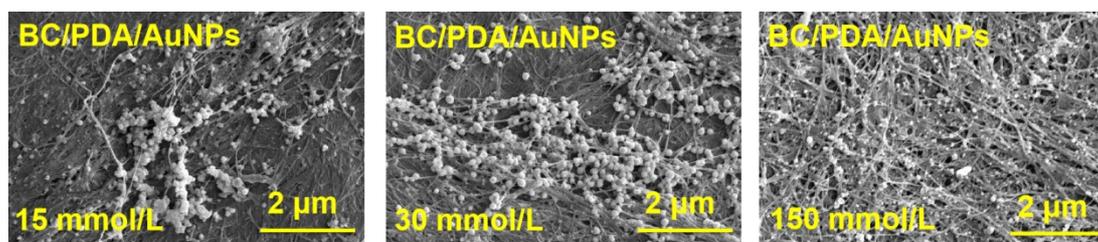


Figure S2. Representative SEM images of BC/PDA/AuNPs membranes containing various percentage of AuNPs (15, 30 and 150 mmol/L of chloroauric acid).

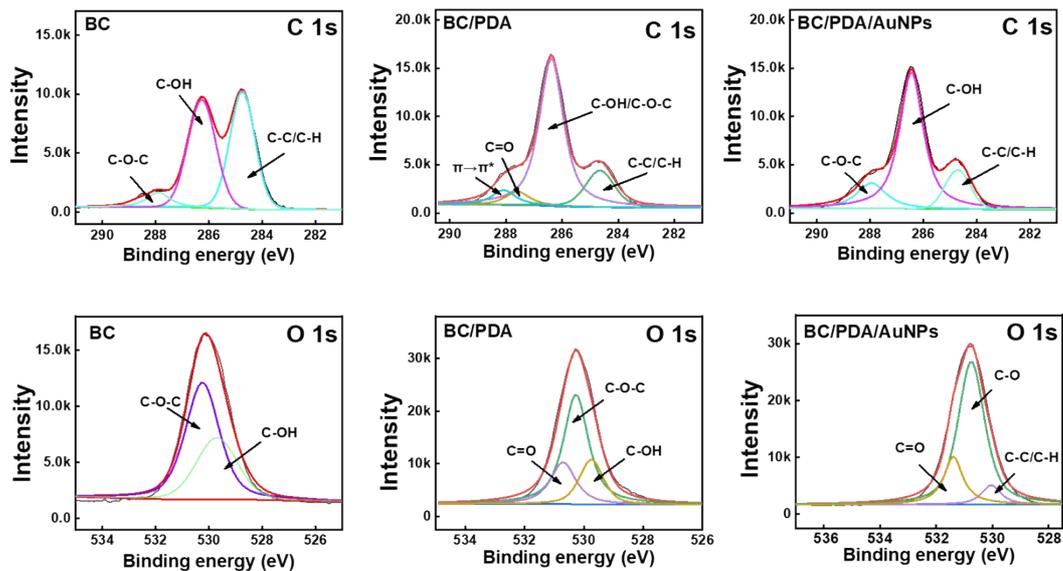


Figure S3. The high-resolution C 1s and O 1s XPS spectra of BC, BC/PDA and BC/PDA/AuNPs.

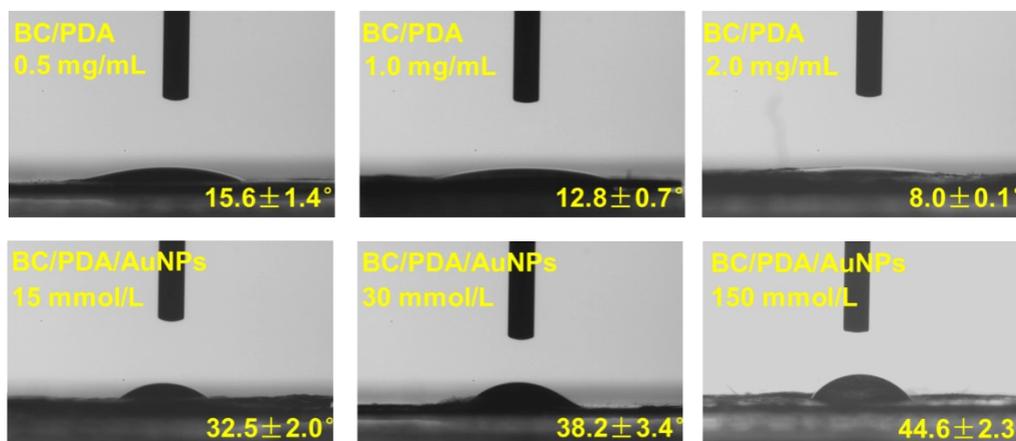


Figure S4. Water contact angles of BC/PDA samples fabricated with different concentration PDA solutions, and BC/PDA/AuNPs samples incorporated with various concentrations (15, 30 and 150 mmol/L of chlorauric acid) of AuNPs.

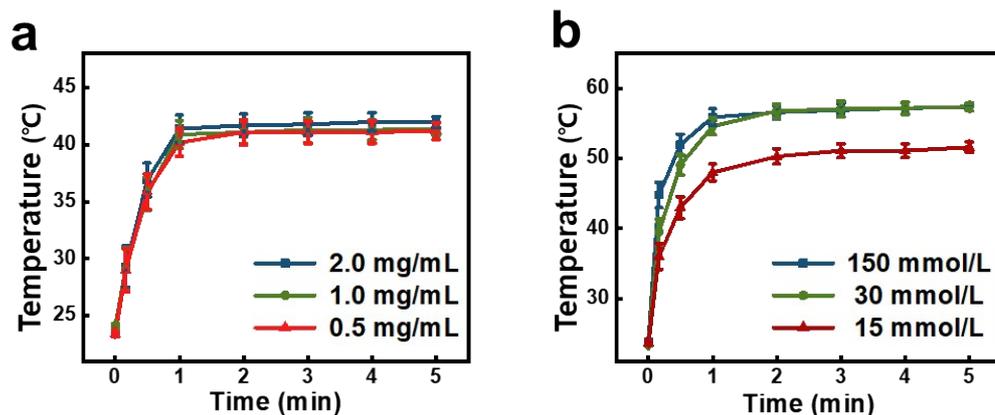


Figure S5. (a) Temperature profiles of the BC/PDA samples fabricated with different PDA concentrations after being irradiated for 5 min under 0.25 W/cm^2 . (b) Temperature profiles of the BC/PDA/AuNPs samples incorporated with AuNPs at various concentrations (15, 30 and 150 mmol/L of chloroauric acid) after being irradiated for 5 min under 0.25 W/cm^2 .

Table 1. Sequences of primers used in this study

Gene	Forward primer	Reverse primer
TNF- α	GGGACAGTGACCTGGACTGT	CTCCCTTGCAGAACTCAGG
IL-1 β	GAGCCCATCCTCTGTGTCTC	AGTCATATGGGTCCGACAG
bFGF	GAAGAGCGACCCTCACAT	CGTTTCAGTGCCACATACCA
VEGF	AGGCTGCTGTAACGATGAA G	TATGTGCTGGCTTTGGTGAG