## Supporting Information for:

## Multifunctional nanofibrous mats: Toward antibacterial, anti-inflammation, and visual bacterial diagnosis

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Fig. S1 Fe mass loss rates of PGPIB nanofibrous mats.



Fig. S2 Absorption spectra of (a) anti-inflammatory IB and (c) antibiotic GS. Standard curves of (b) IB at 264 nm and (d) GS at 333 nm.



Fig. S3 (a) UV–vis absorption-time curve of the TMB- $H_2O_2$  system and (b) ESR spectra of the TiO<sub>2</sub>-UV system with or without PBNCs.



Fig. S4 Linear regression equations of R, G, and L values and coincubation time.