

Supplementary Material

Integrating Porphyrinic Metal-Organic Frameworks in Nanofibrous Carrier for Photodynamic Antibacterial Application

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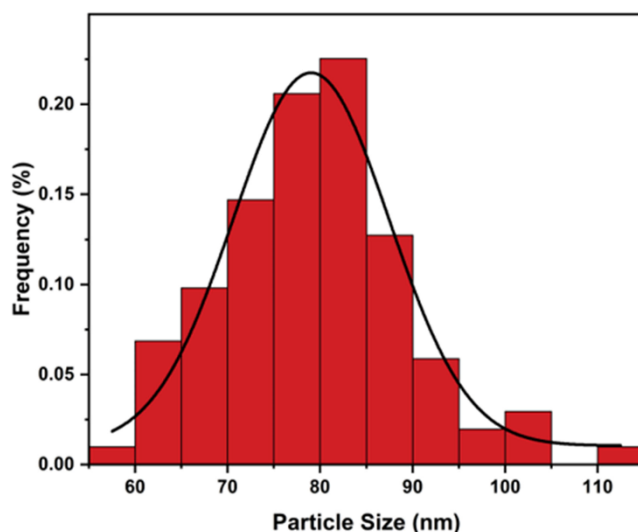


Figure S1. The size distribution of the PCN-224 NPs.

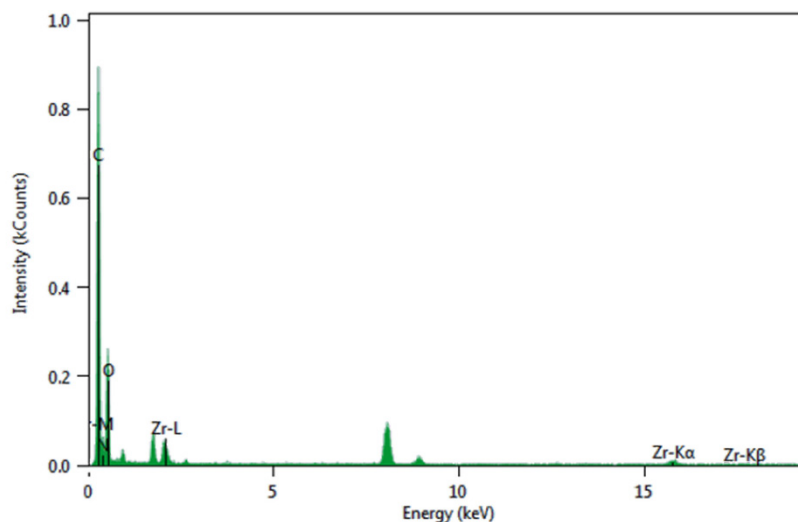


Figure S2. The TEM elemental mappings results of PCN-224 NPs.

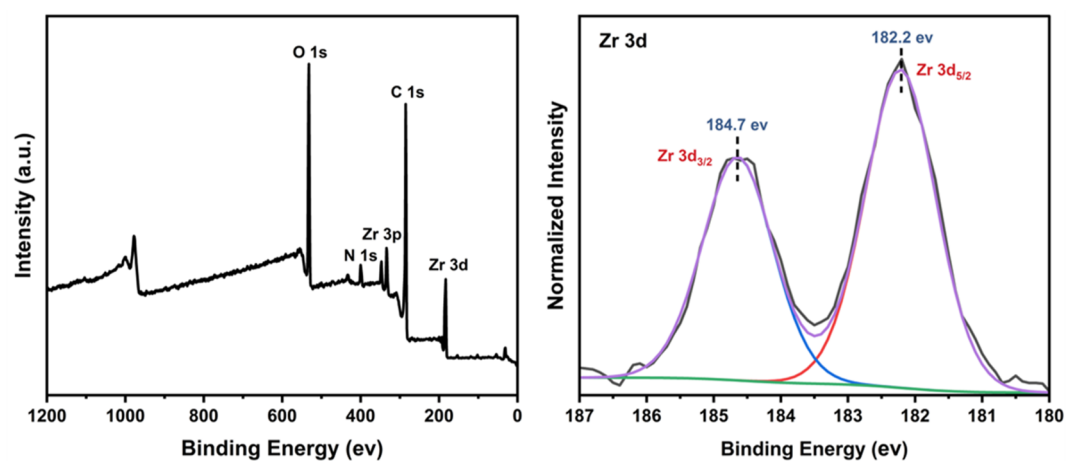


Figure S3. XPS spectra of PCN-224 and Zr 3d.

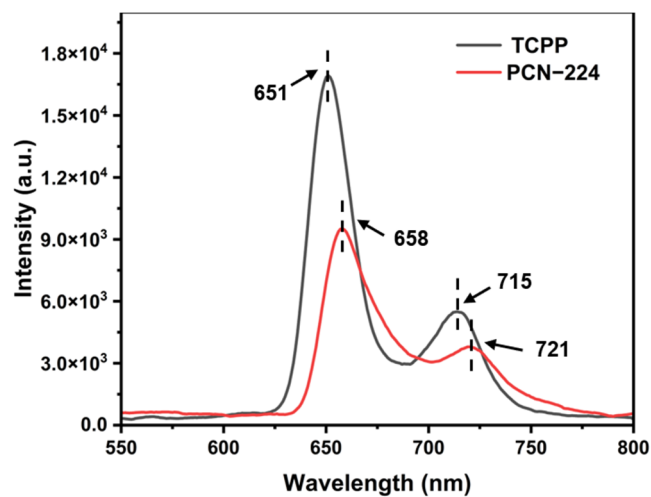
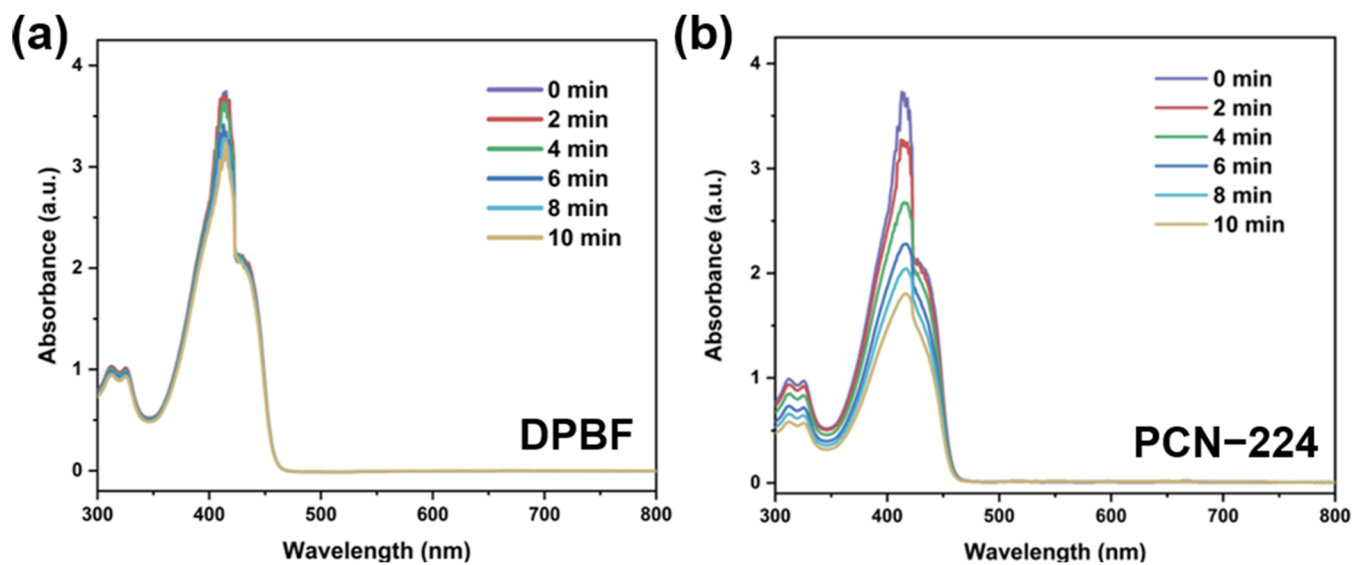


Figure S4. The PL spectra of PCN-224 NPs.

Figure S5. UV-visible spectrum of DPBF under visible illumination (630 nm, 100 mW/cm²) with/without PCN-224 NPs.

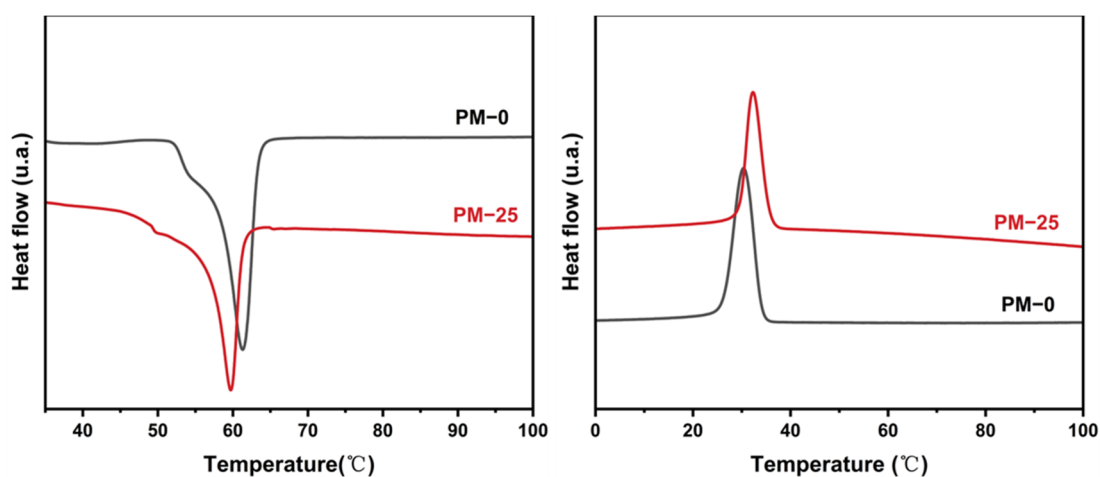


Figure S6. DSC scans of PM-0 and PM-25 NFMs. Left) heating and Right) cooling.

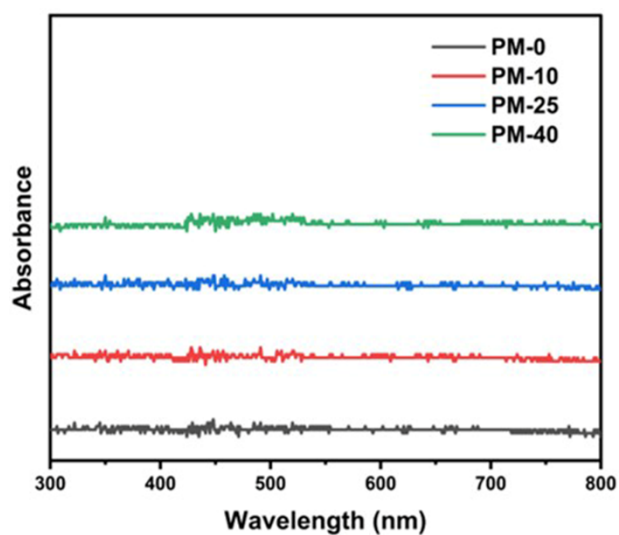


Figure S7. The UV-visible spectrum of PM NFMs after immersing in HEPES buffer for 12 hours.

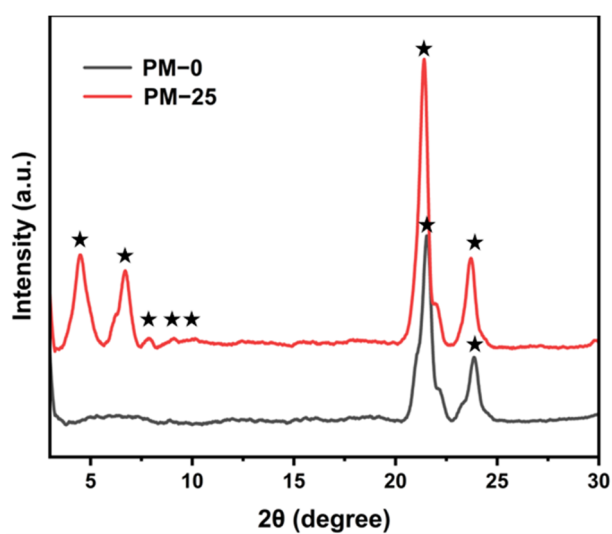


Figure S8. XRD patterns of PM-0 and PM-25 NFMs

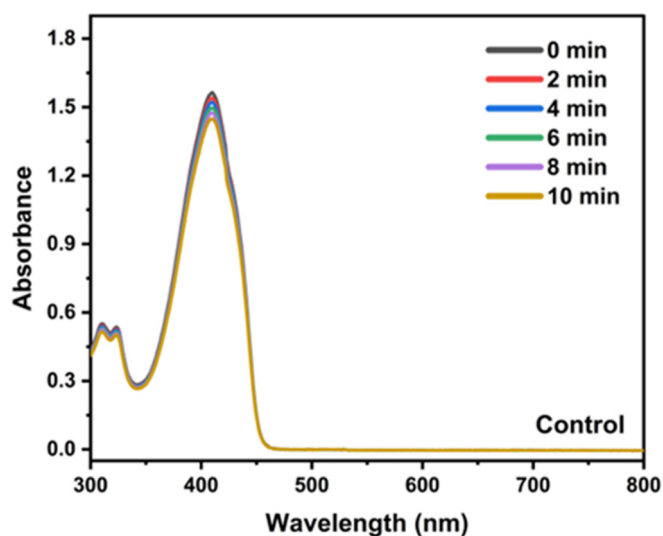


Figure S9. UV-visible spectrum of DPBF under visible illumination (630 nm, 100 mW/cm²).

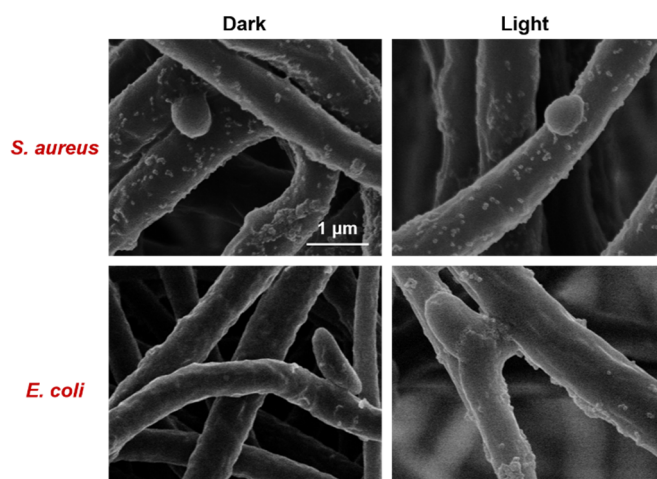


Figure S10. The SEM images of bacteria and bacteria treated fibers.

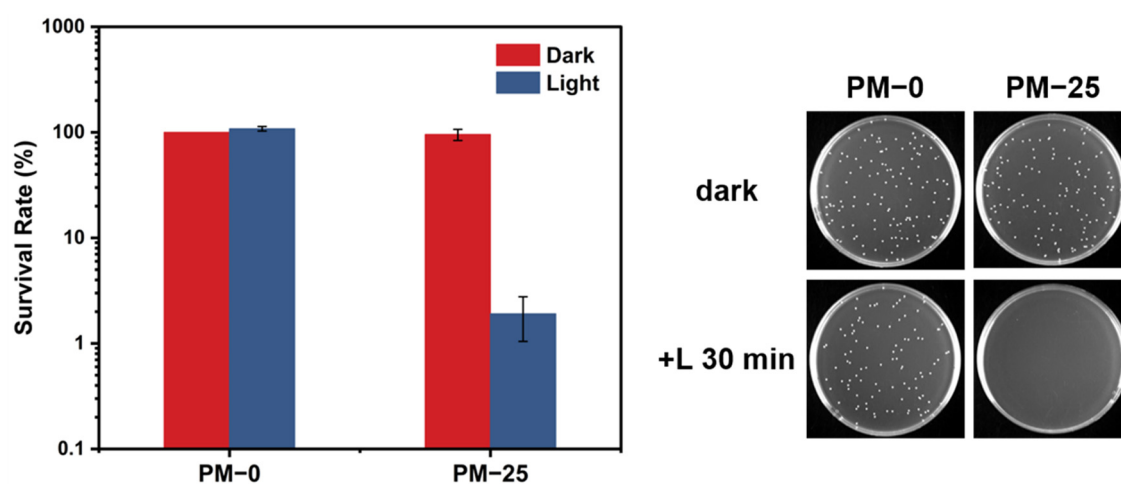


Figure S11. Relative bacterial survival rate and photographs of residual colonies of MRSA under various membranes treatments in the dark/light. The error bars indicate the standard deviation (n=3).