Analytical and Bioanalytical Chemistry Electronic Supplementary Material

Ultrasensitive electrospun fluorescent nanofibrous membrane for rapid visual colorimetric detection of H_2O_2

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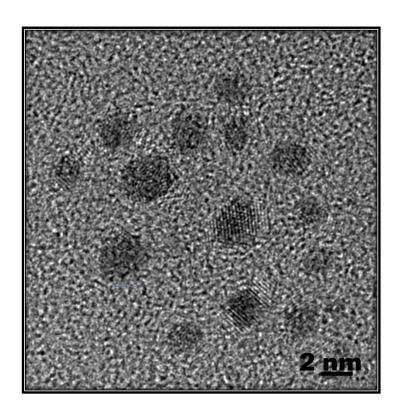


Fig. S1 HRTEM image of AuNC.

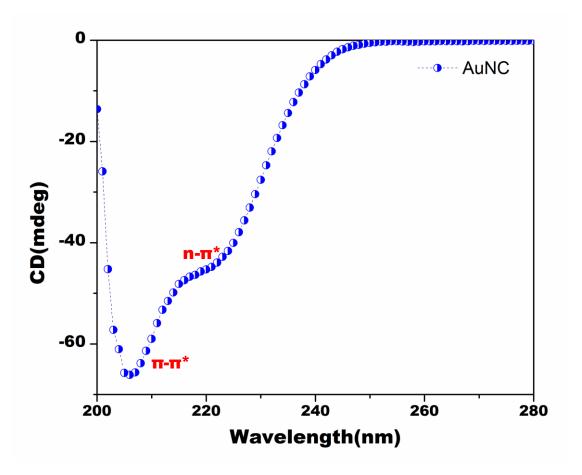


Fig. S2 Circular dichroism (CD) spectra of AuNC.

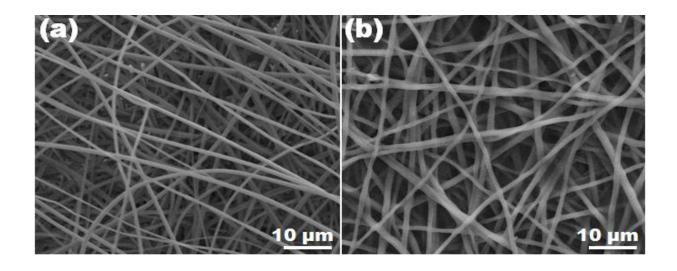


Fig. S3 SEM images of PSF nanofibers before (a) and after (b) decoration of AuNC

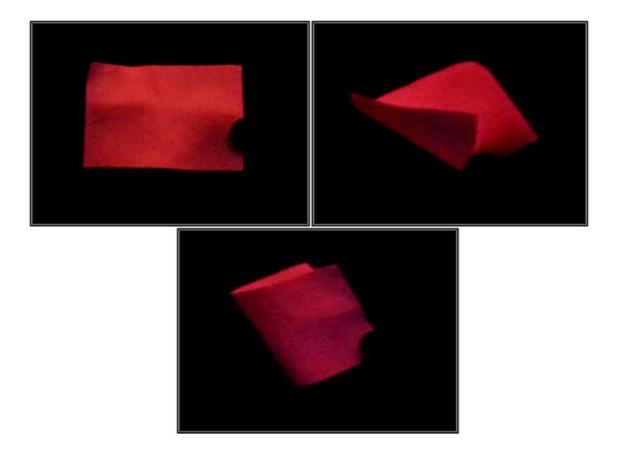


Fig. S4 Photographs of FNFM taken under UV exposure at 366 nm, showing the flexibility nature. The emitted fluorescence is uniform all over the surface.

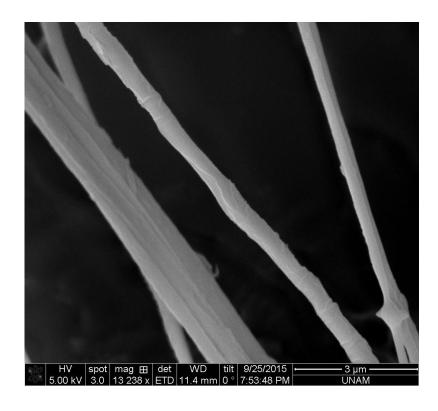
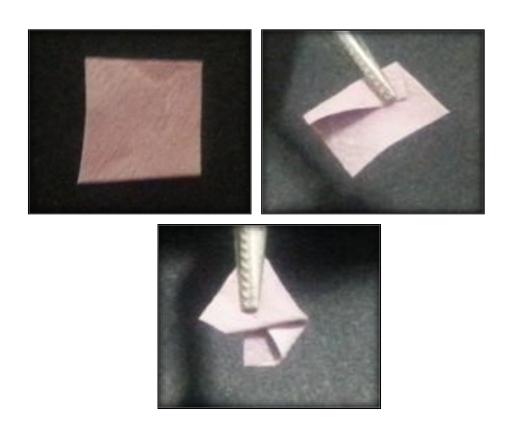


Fig. S5 SEM image of 100 mM H₂O₂ treated FNF.



 $\textbf{Fig. S6} \ Photographs \ of \ FNFM \ after \ exposure \ to \ 100 \ mM \ H_2O_2 \ taken \ under \ normal \ light \ condition, \ showing \ their \ flexibility \ nature.$

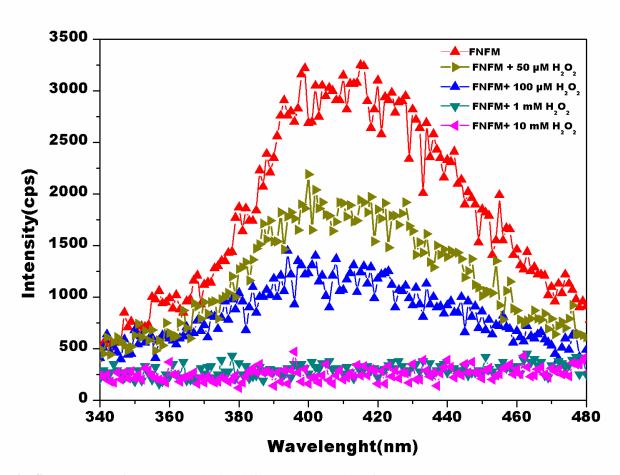


Fig. S7 PL spectra of FNFM treated with different concentration of H_2O_2 . The observed spectra corresponds to the characteristic emission of BSA under excitation wavelength of 300 nm.

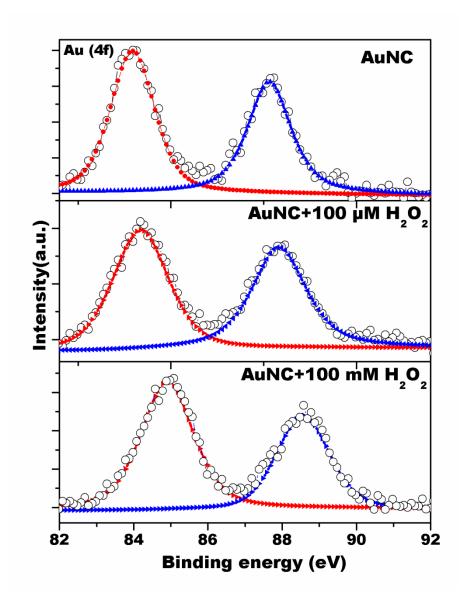


Fig. S8 Deconvoluted Au(4f) spectra for AuNC before and after treatment with different concentration of H₂O₂.