

Supplementary Materials

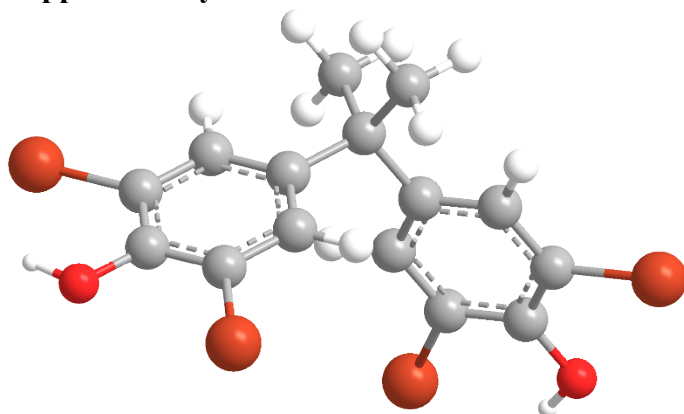


Fig. S1 Three-dimensional structure of TBBPA

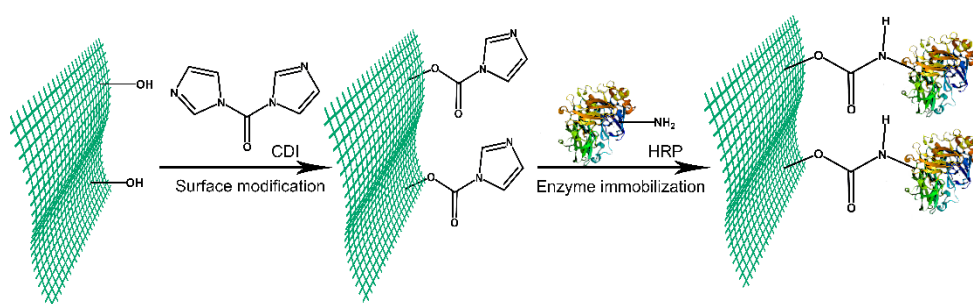


Fig. S2 CDI activation of CPN EFMs and its bio-conjugation with HRP

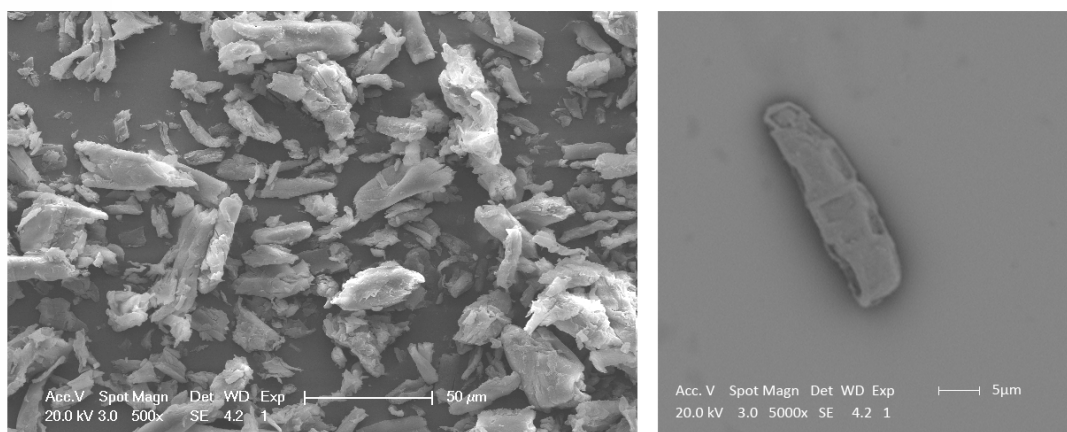
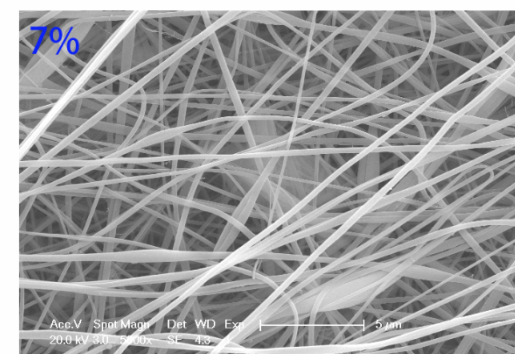
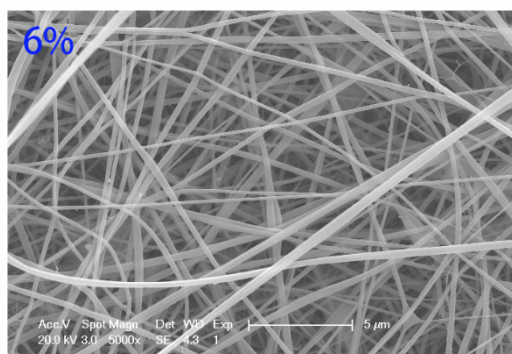
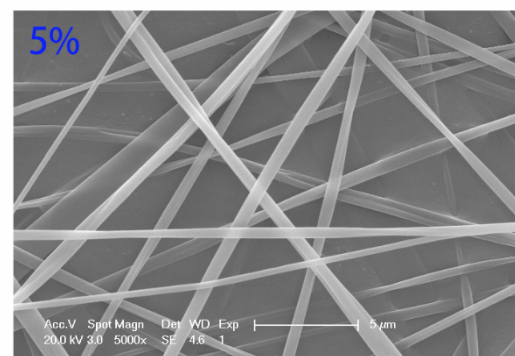
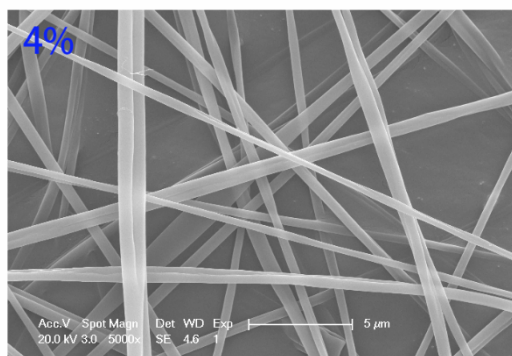
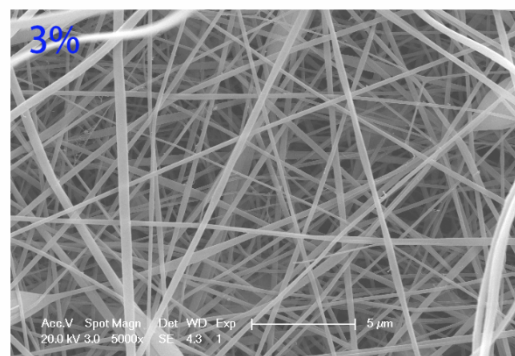
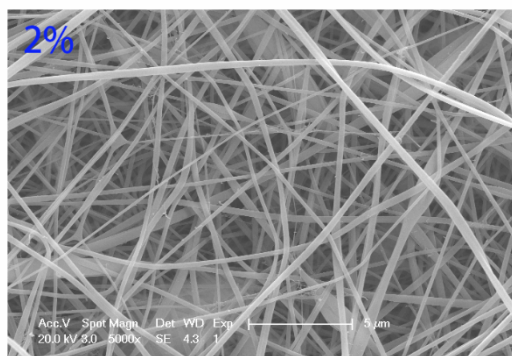
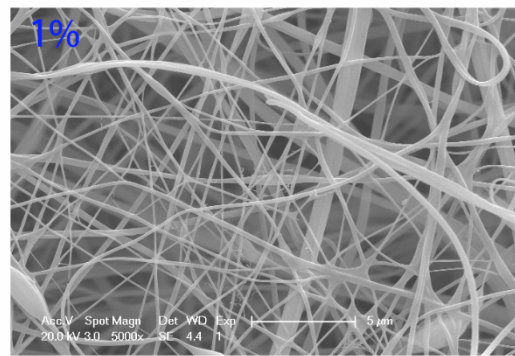
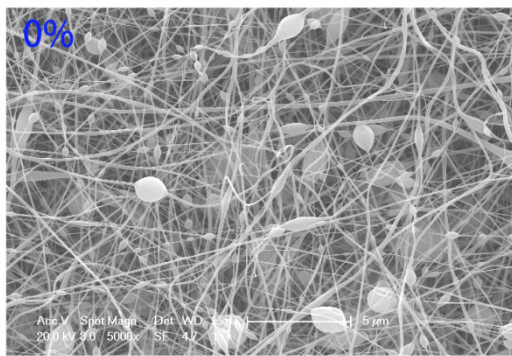


Fig. S3 Morphology of NCC



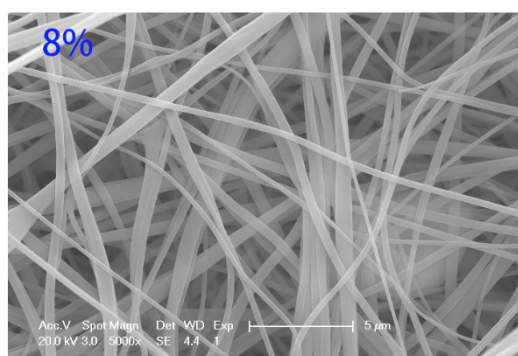
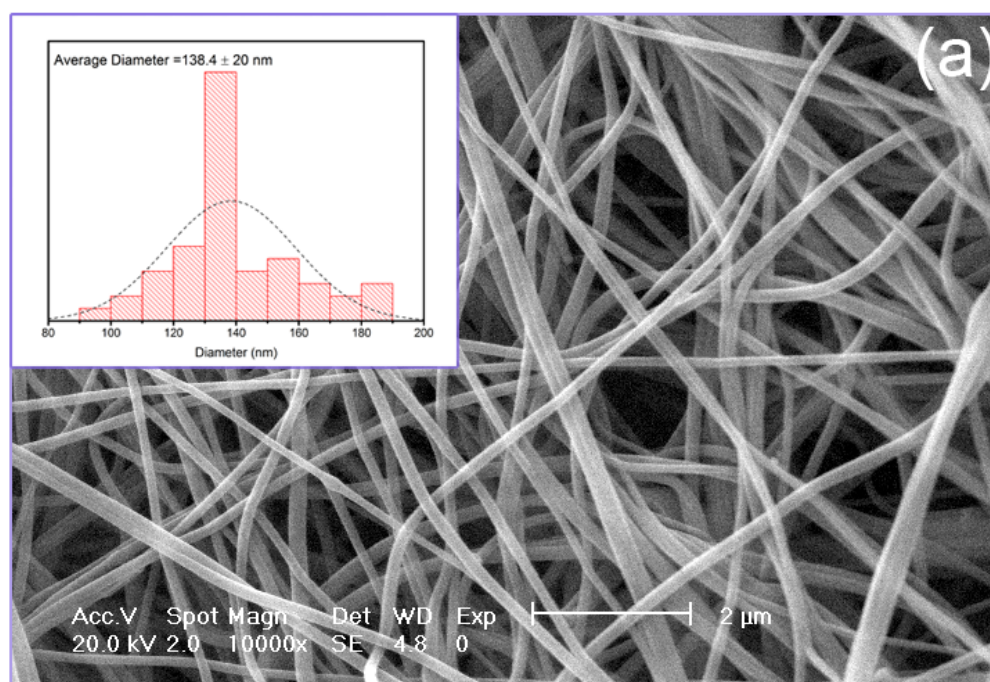


Fig. S4 Morphology of CPN EFMs with different NCC loading (from 0% to 8%)



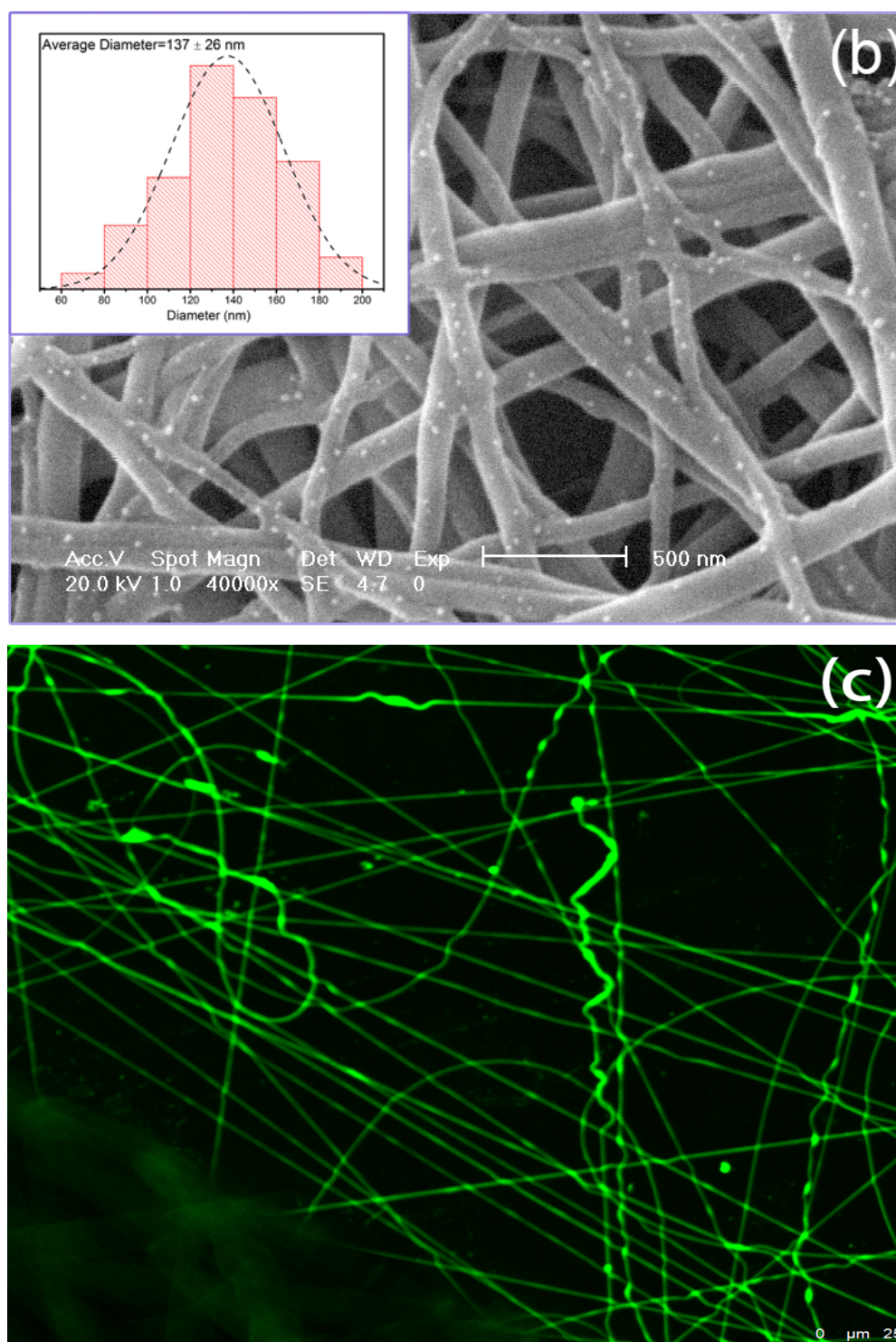


Fig. S5 Morphology and structure of CPN EFMs: (a) original EFMs and (b) immobilized HRP on EFMs (c) activated CPN EFMs with HRP-FITC

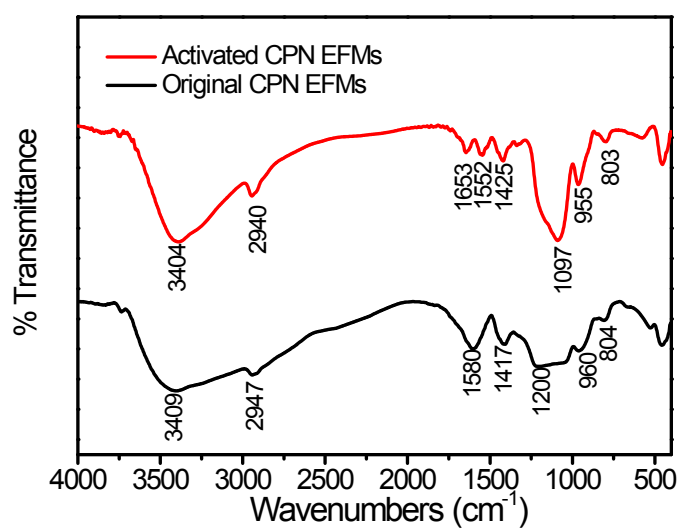


Fig. S6 FTIR spectra of CPN EFMs before and after activation.