

Supplementary file PDA-CMCs-HEC hydrogels

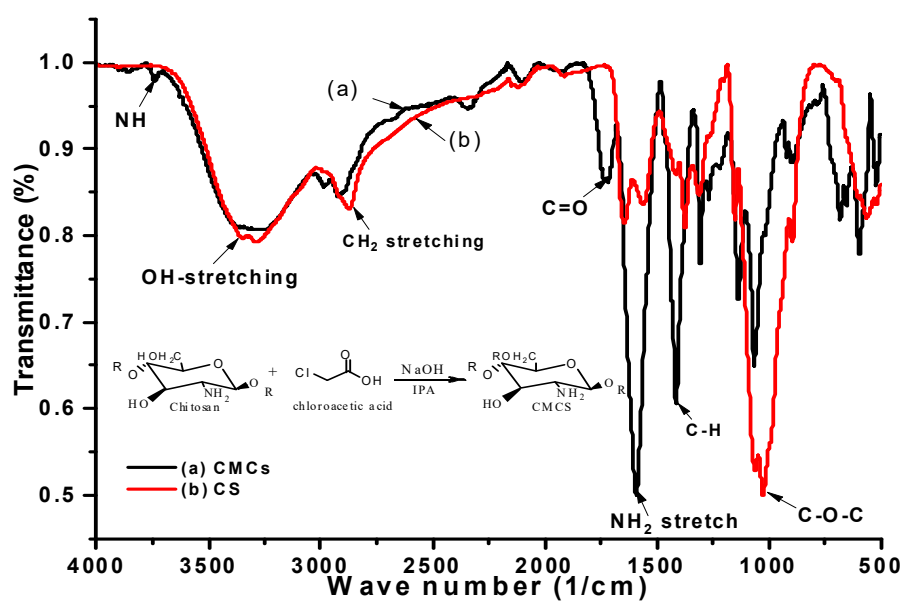


Figure S1: IR spectra of (a) chitosan (CS) and (b) carboxymethyl chitosan (RCOOH)

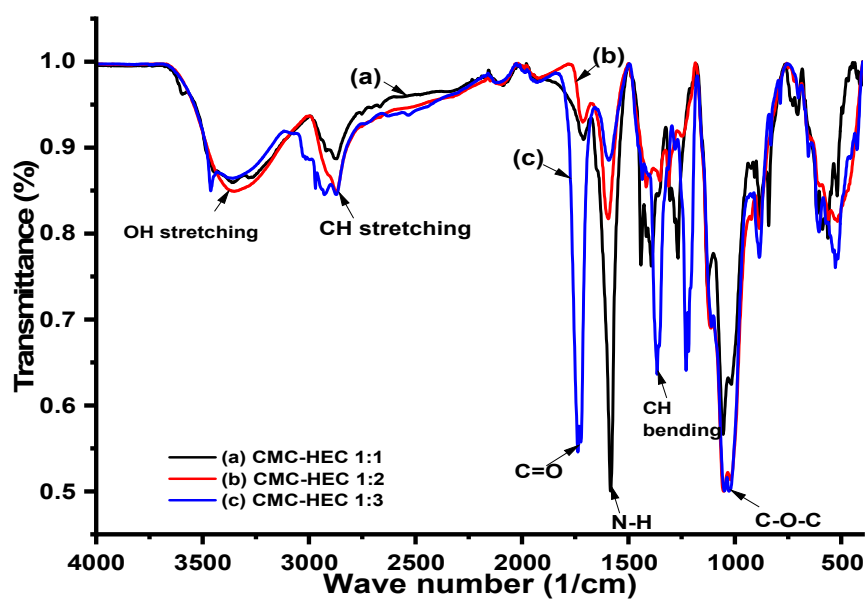


Figure S2: IR spectra of hydrogels prepared by crosslinking different ratios of HEC

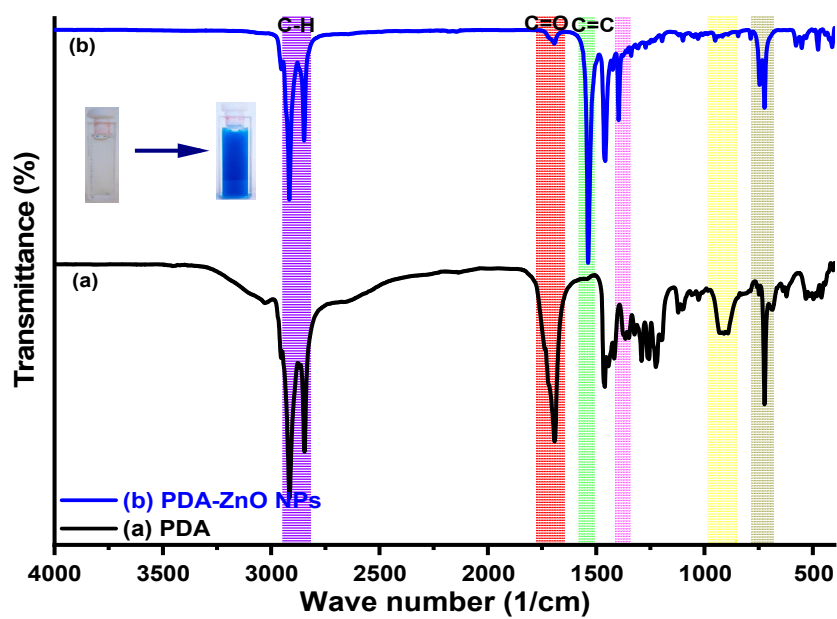


Figure S3: IR spectra of (a) PDA and (b) PDA-ZnO NPs

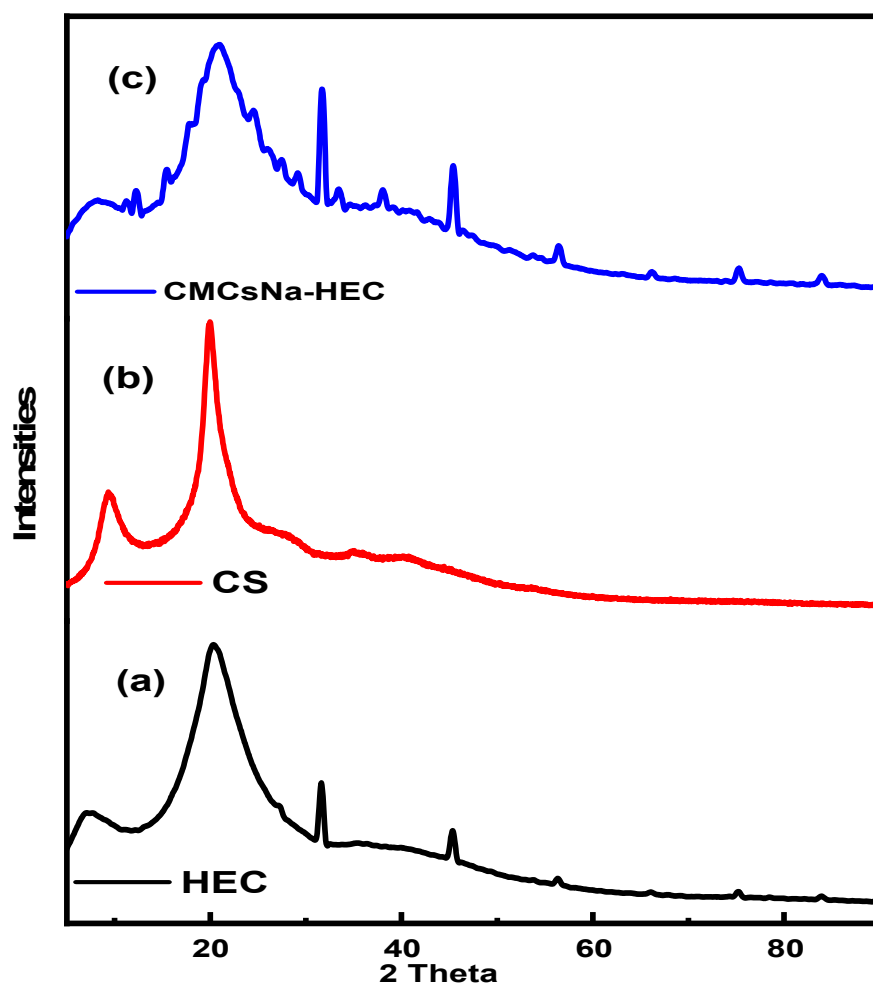


Figure S4: X-ray diffractogram of CS, HEC and CMCs-HEC

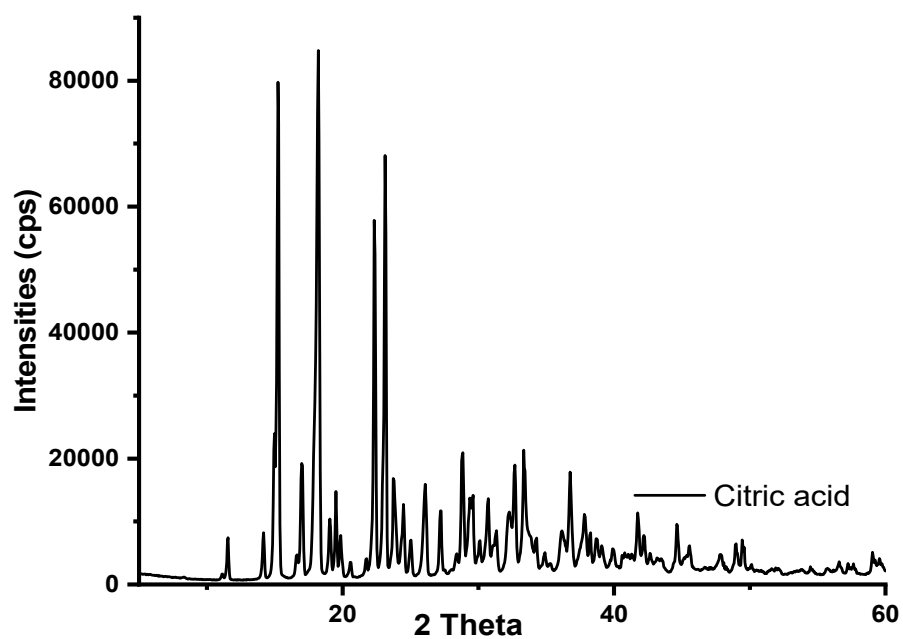


Figure S5: X-ray diffractogram of citric acid

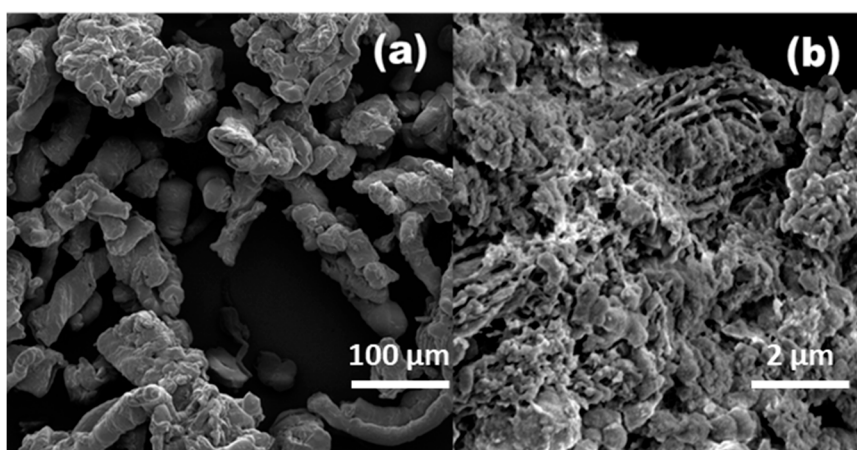


Figure S6: SEM Micrographs of (a) HEC and (b) CMCsNa

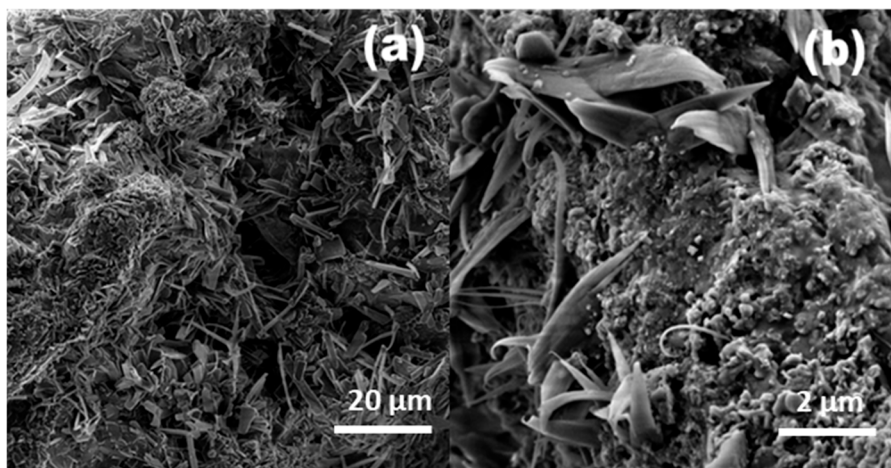


Figure S7: SEM Micrographs of PDA nanosheets on PDA-CMCs-ZnO-HEC

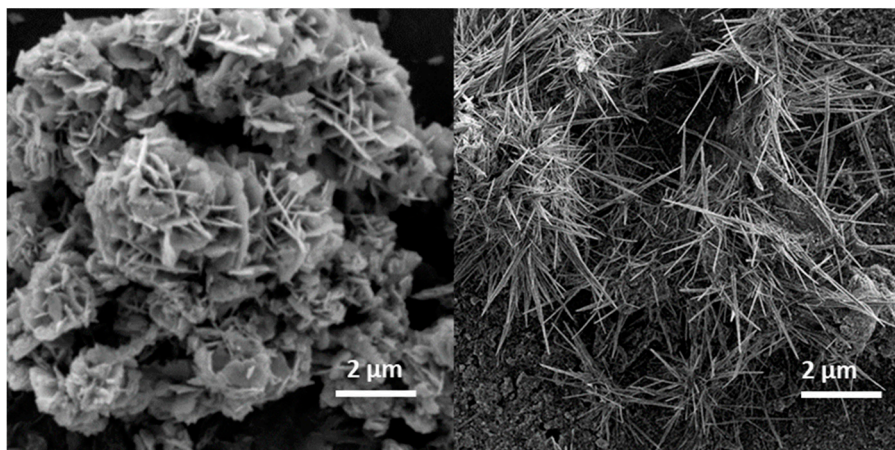


Figure S8: SEM micrographs of ZnO nanorods on PDA-ZnO-CMCs-HEC

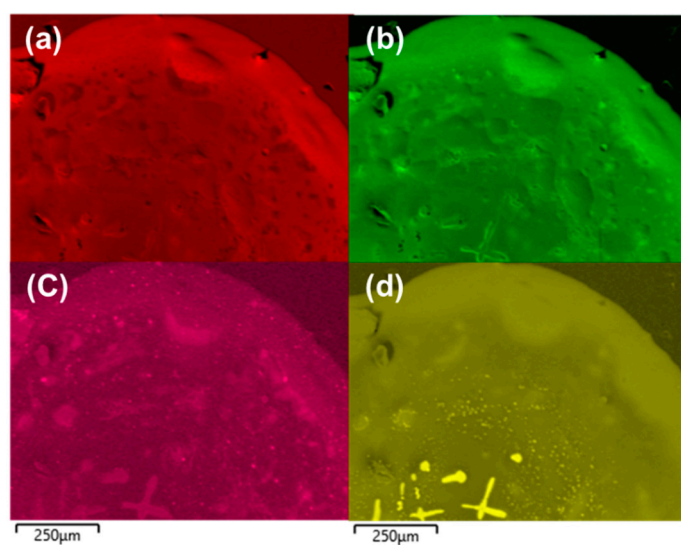


Figure S9: Elemental mapping showing (a) carbon (b) oxygen (c) zinc (d) chlorine

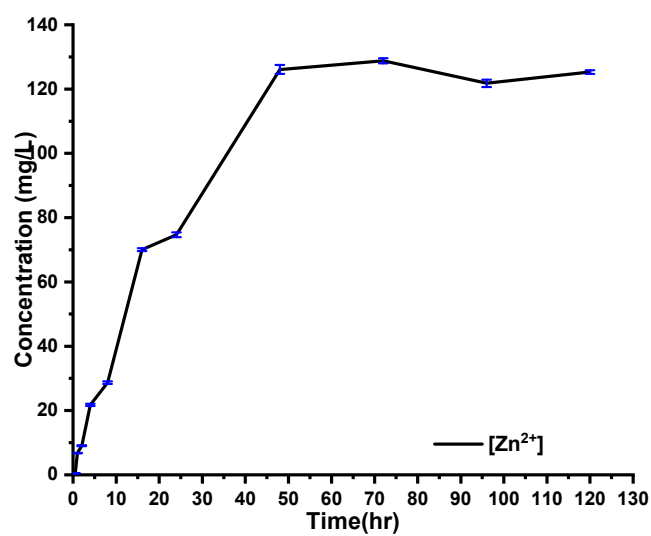


Figure S10: Concentration of Zn^{2+} ions diffusing from the hydrogels per unit time (h)