Supplementary file

Zero valent nickel nanoparticles decorated polyaniline nanotubes for the efficient removal of Pb(II) from aqueous solution: synthesis, characterization and mechanism investigation

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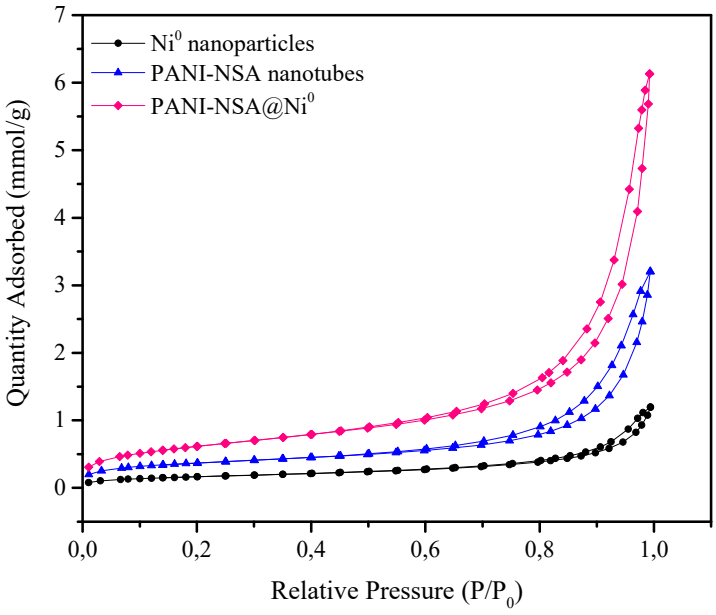

Fig. S1. N_2 adsorption-desorption curves of PANI-NSA nanotubes, Ni^0 nanoparticles and PANI-NSA@Ni^0 composite nanotubes.

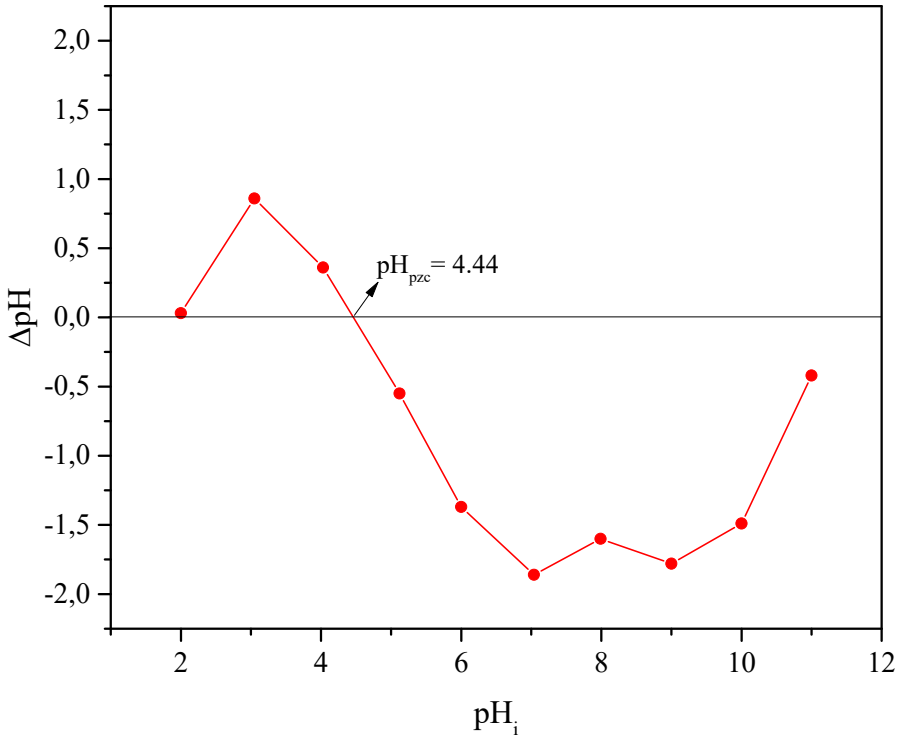

Fig. S2. ΔpH versus initial pH curve to determine PZC of PANI-NSA@Ni^0 CNs

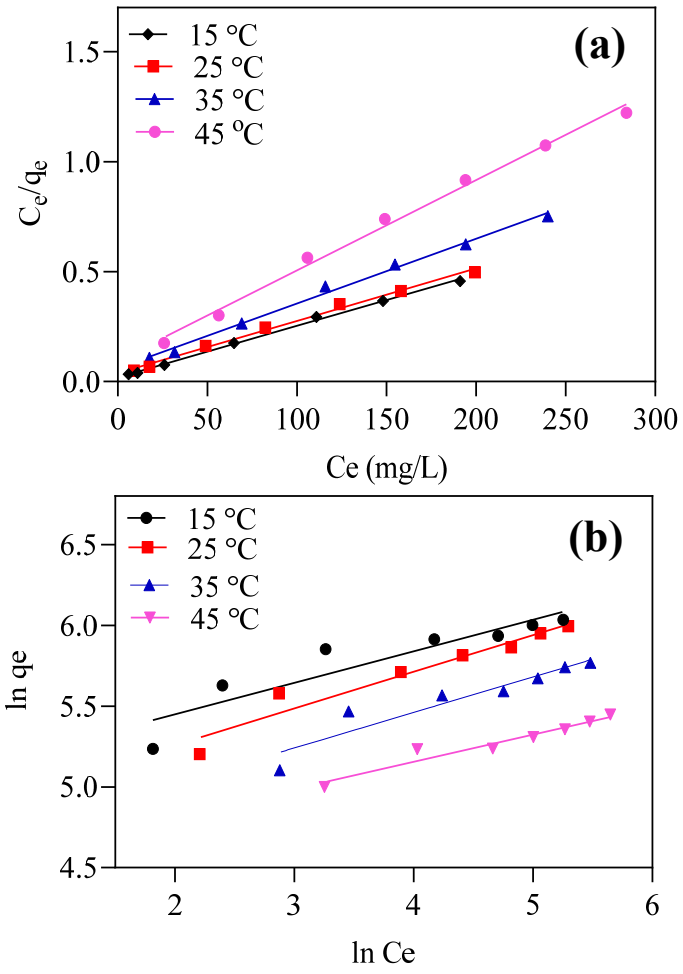

Fig. S3. Fit of experimental isotherm data with (a) linear Langmuir and (b) linear Freundlich model.

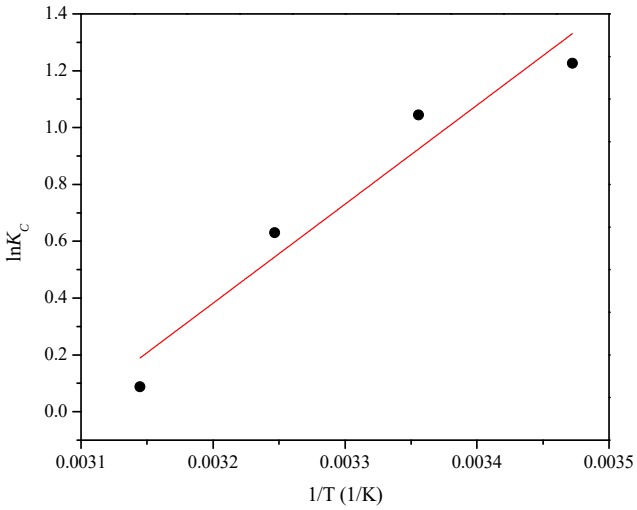

Fig. S4. A plot of ln Kc vs 1/T to determine thermodynamic parameters.