

Supplementary Information

Efficient detection of p-nitrophenol via polypyrrole flower-decorated nickel foam based electrochemical sensor

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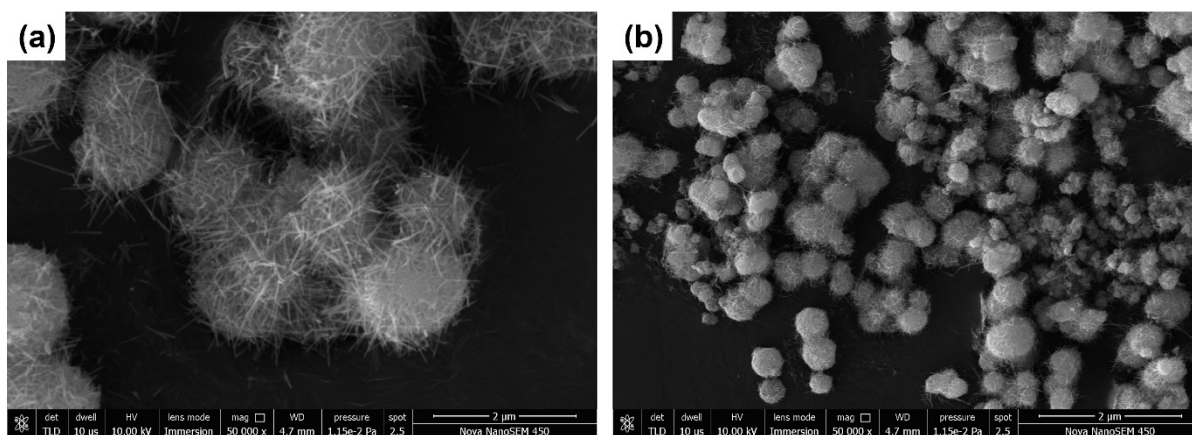


Fig. S1 FESEM images of MnO₂ flowers synthesized via hydrothermal method.

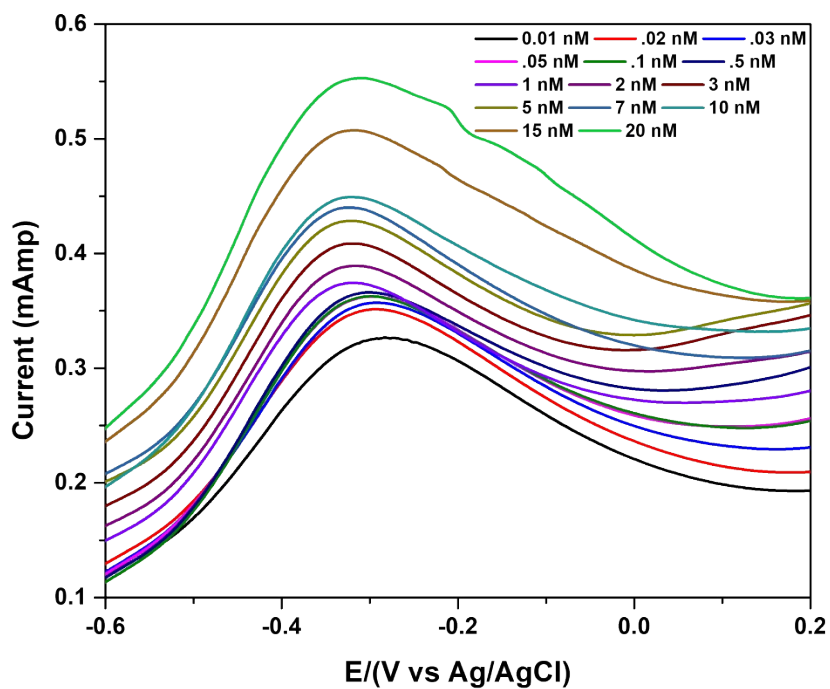


Fig. S2 Linear sweep voltammetry (LSV) of PPy Fls/Ni foam electrode for 0.01-20 nM pNP concentration.

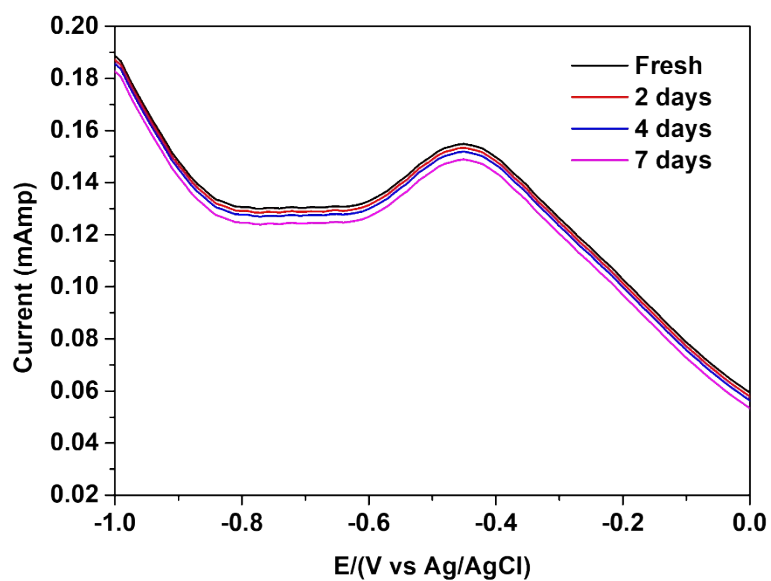


Fig. S3 DPV of PPy FIs/Ni foam electrode for 10 nM pNP up to 7 days.

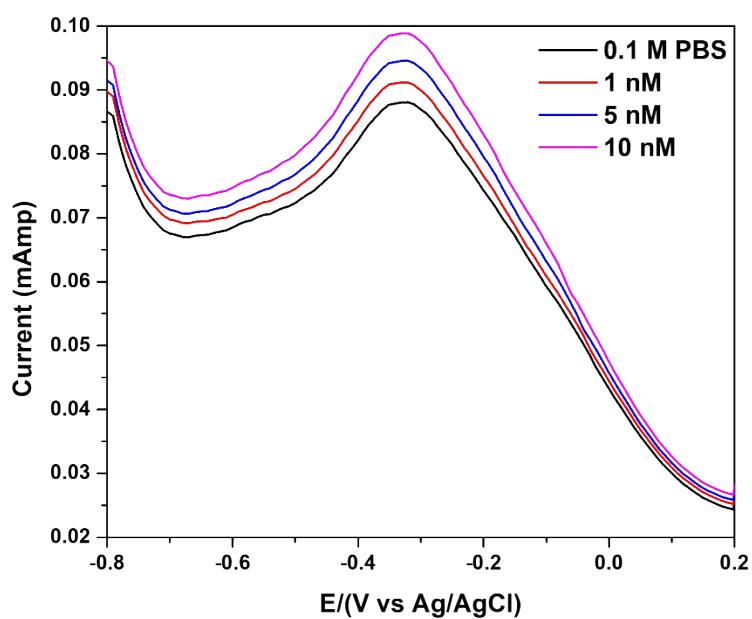


Fig. S4 DPV of PPy FIs/Ni foam electrode for different concentrations of pNP in ground water medium.

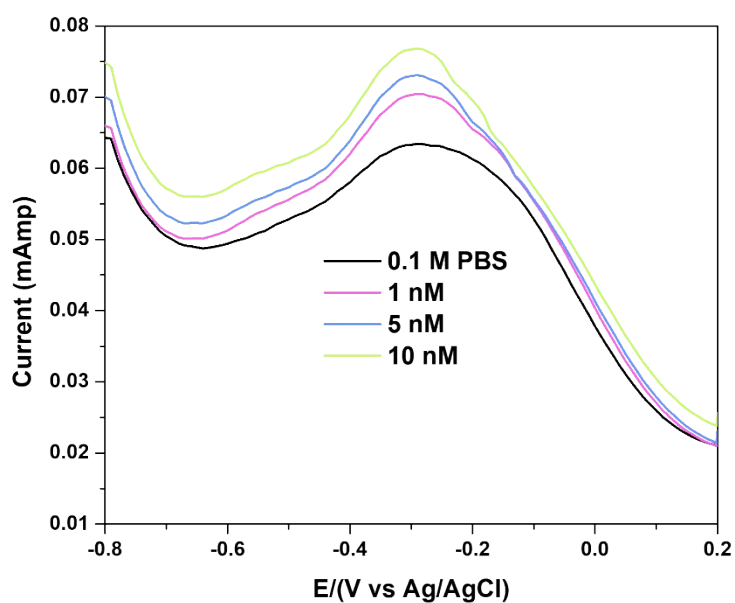


Fig. S5 DPV of PPy Fls/Ni foam electrode for different concentrations of pNP in tap water medium.

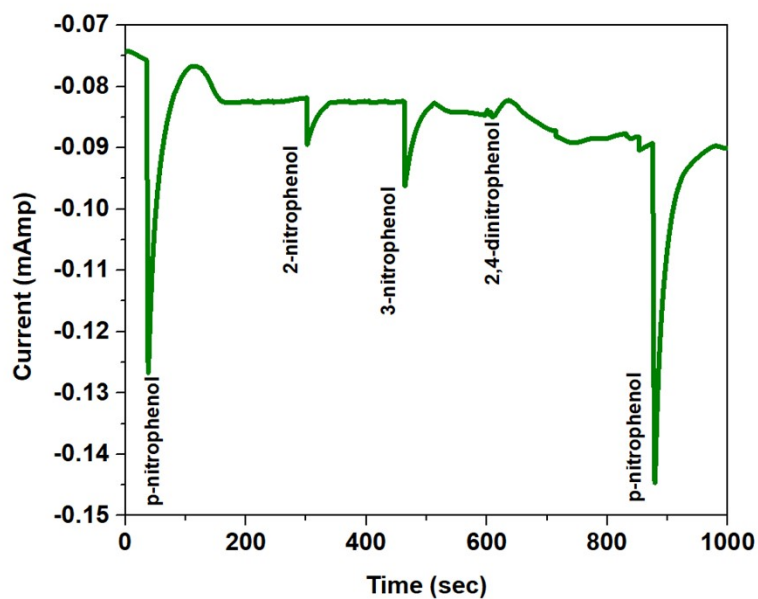


Fig. S6 Anti-selectivity of proposed electrochemical sensor for p-NP along with its three structural analogues i.e. 2-nitrophenol, 3-nitrophenol and 2,4-dinitrophenol (concentration: 10 nM).