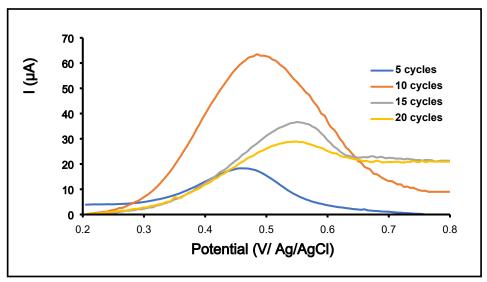
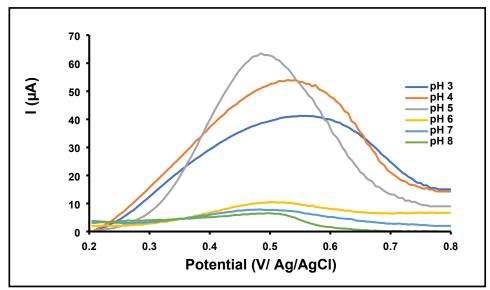
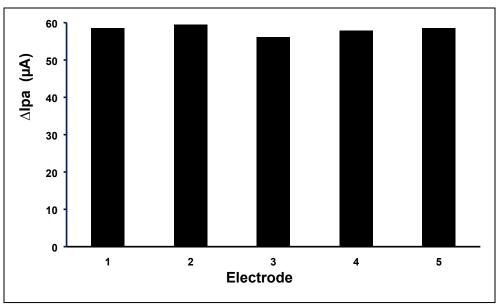
Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2022



Supplementary 1. DPASV voltammogram of 0.1  $\mu$ M Ni(II) on Ni-IPANI/CPE-Bi electrode at various scanning cycle



Supplementary 2. DPASV voltammogram of 0.1  $\mu$ M Ni(II) on Ni-IPANI/CPE-Bi electrode at various pH



Supplementary 3. Peak current response of 1  $\mu$ M Ni(II) on five different Ni-IPANI/CPE-Bi electrode



Supplementary 4. Peak current response of 1  $\mu$ M Ni(II) on Ni-IPANI/CPE-Bi electrode for 20 repetitive measurements