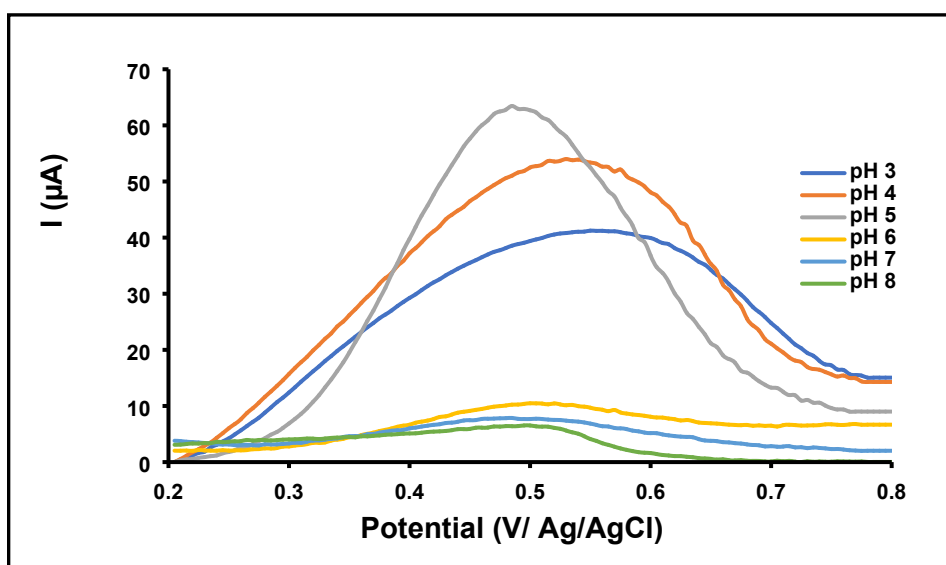
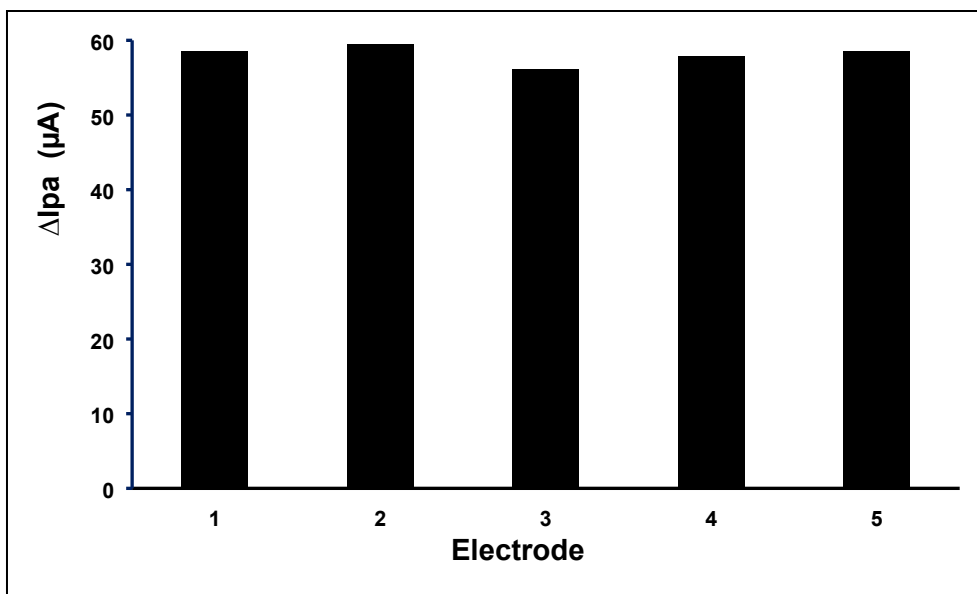


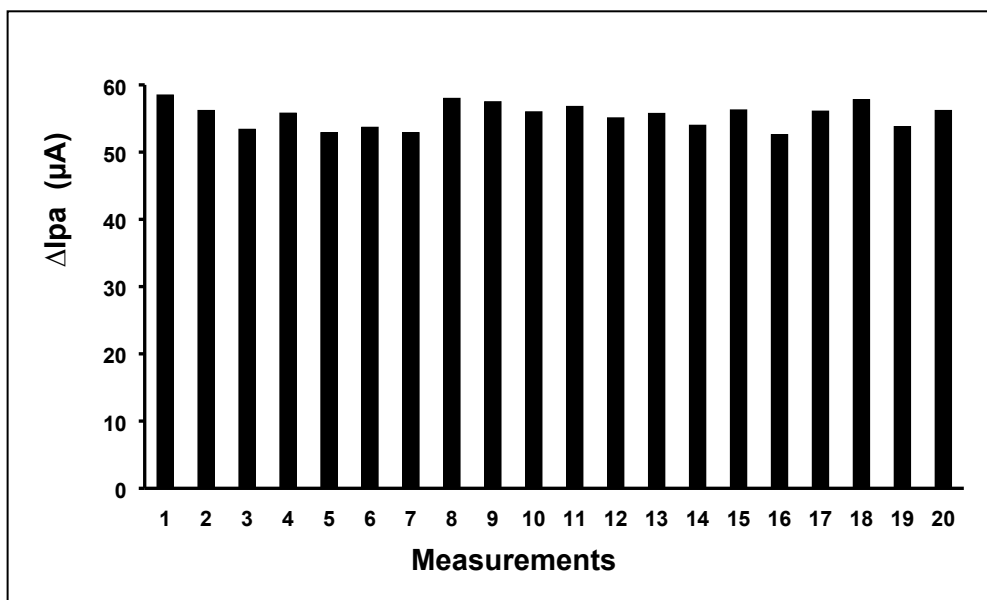
Supplementary 1. DPASV voltammogram of 0.1 μM Ni(II) on Ni-IPANI/CPE-Bi electrode at various scanning cycle



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



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



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