Voltammetric and Impedimetric Determinations of Selenium (IV) by An Innovative Gold-Free Poly(1-aminoanthraquinone)/Multiwall Carbon Nanotubes-Modified Carbon Paste Electrode

Asmaa Galal Ali a, Mahmoud Fatehy Altahan b, Amr Mohamed Beltagi c Abla Ahmed Hathoot a, Magdi Abdel-Azzem a

a Electrochemistry Laboratory, Chemistry Department, Faculty of Science, Menoufia University, Shibin El-Kom 32511, Egypt
b Central Laboratory for Environmental Quality Monitoring, National Water Research Center, El-Qanater El- Khairia 13621, Egypt.
c Chemistry department, Faculty of Science, Kafrelsheikh University, Kafr El-Sheikh 33516, Egypt.

1 Current address: GEOMAR, Helmholtz Center for Ocean Research, Kiel 24148, Germany, Email: maltahan@geomar.de.

Corresponding authors email:asmaa.galal081986@gmail.com (Asmaa Galal Ali) mahmoud_abdalqader@nwrc.gov.eg (Mahmoud Fatehy Altahan)

Supplementary Information
Figure S1. CVs of CPE, MWCNT/CPE, p-1-AAQ/CPE and p-1-AQQ/MWCNT/CPE into 0.001 M [Fe(CN)₆]³⁻/⁴⁻ containing 0.1 M KCl at scan rate 0.1 V.S⁻¹.
Figure S2. Peaks current Vs. square root of Scan rates curves for CPE, MWCNT/CPE, p-1-AAQ/CPE and p-1-AQQ/MWCNT/CPE into 0.001 M [Fe(CN)$_6$]$^{3-/4-}$ containing 0.1 M KCl at different scan rates (25 – 200 mV.S$^{-1}$).