Supporting information

Synergistic activity of binary metal sulphide WS_2-RuS_2 nanospheres for the electrochemical detection of antipsychotic drug promazine

Rajalakshmi Sakthivel[a], Muthaiah Annalakshmi[a], Shen-Ming Chen*[,a], Subbiramaniyan Kubendhiran[b]

[a]Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei 106, Taiwan, ROC.

[b] Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan.

Corresponding Author:

*S.M. Chen, Fax: +886227025238, Tel: +886227017147, E mail: smchen78@ms15.hinet.net

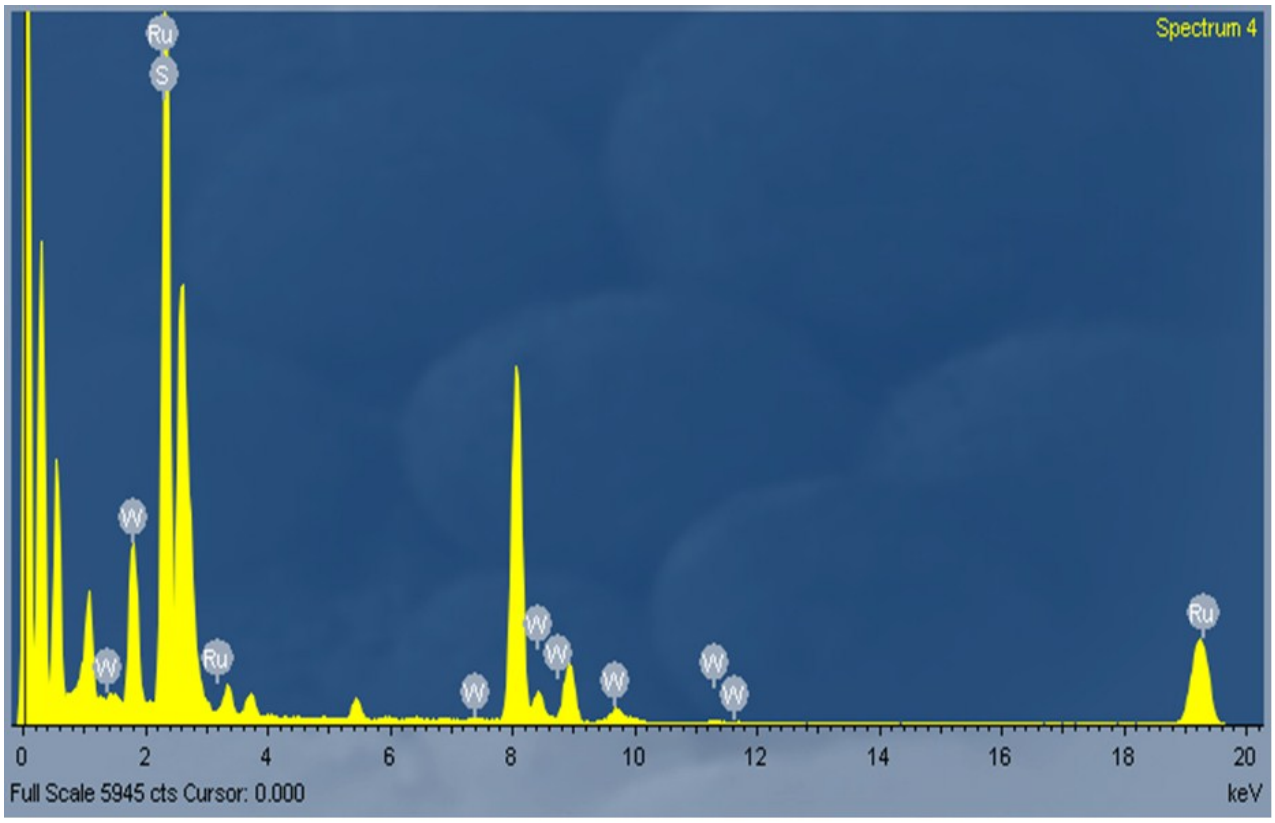

Fig. S1 EDX spectra depict the higher magnification view of WS_2-RuS_2 nanomaterial.

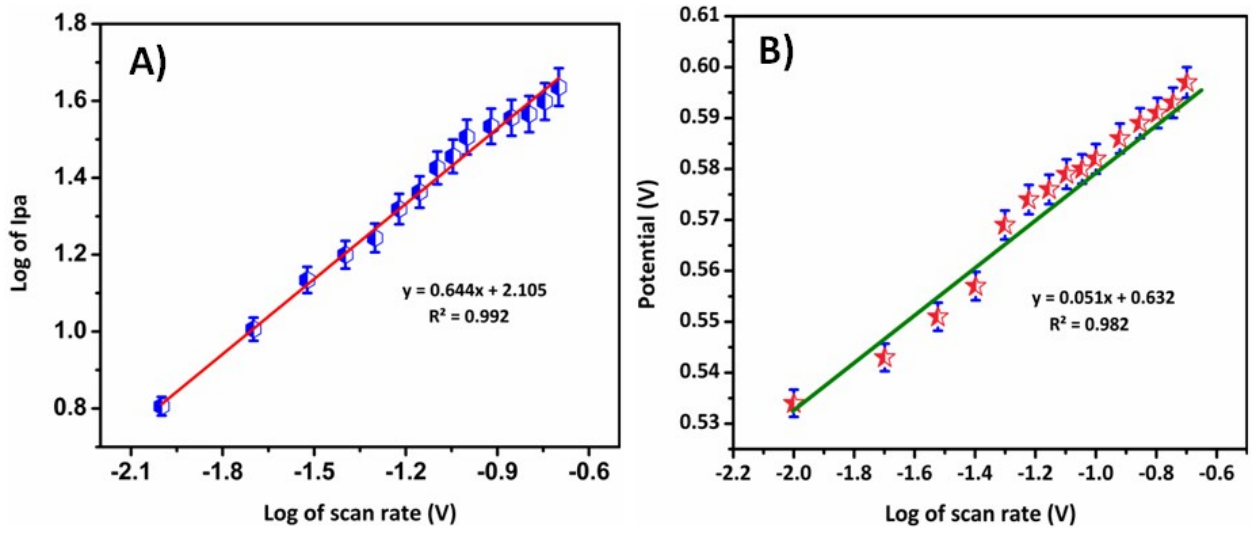

Fig.S2 (A) The calibration plot between the log of scan rate versus log of anodic peak current (Ipa). (B) The plot for the log of scan rate against anodic peak potential (Epa).

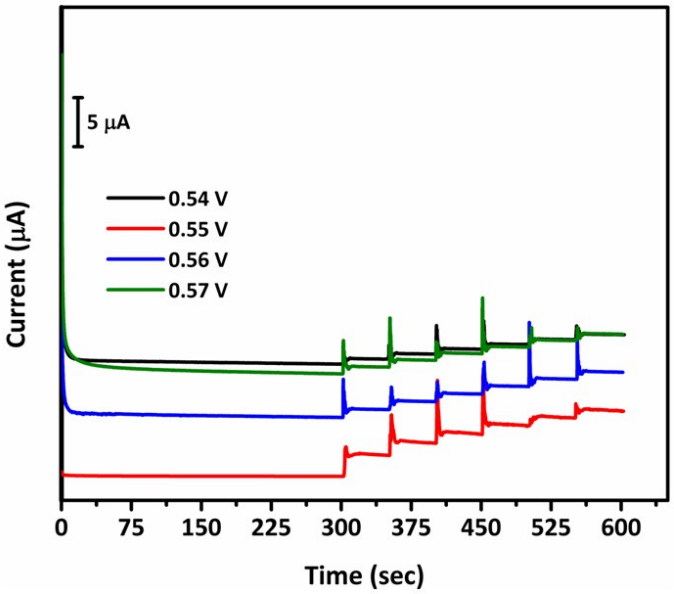

Fig. S3 Amperometric (i-t) response of the four variant potentials including 0.54, 0.55, 0.56 and 0.57 V at WS_2-RuS_2 modified RDE.

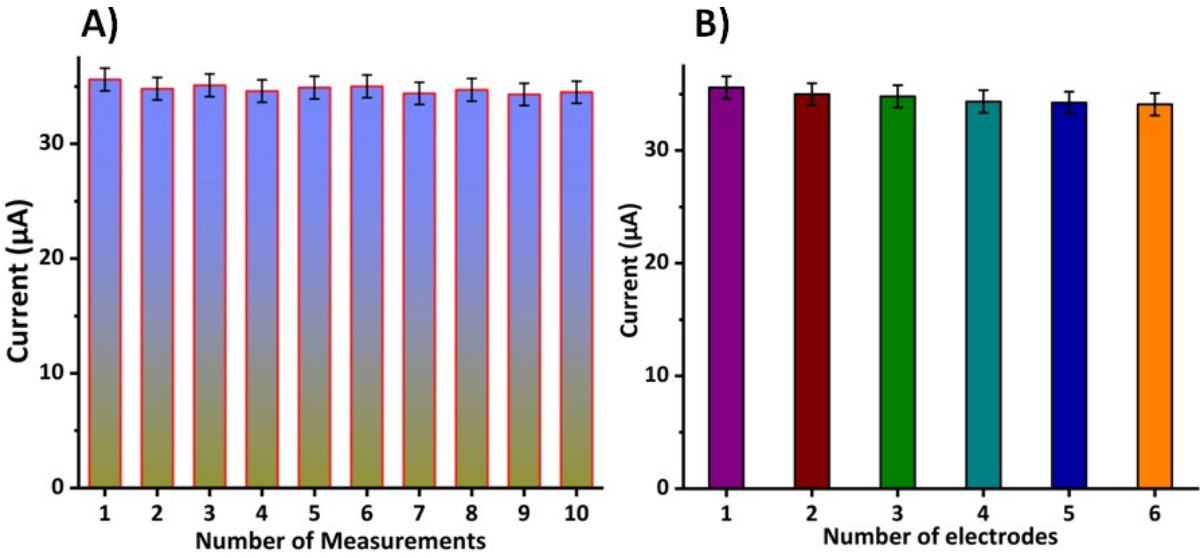

Fig. S4 The bar diagrams shows the repeatability (A) and reproducibility (B) analysis of the modified electrodes.