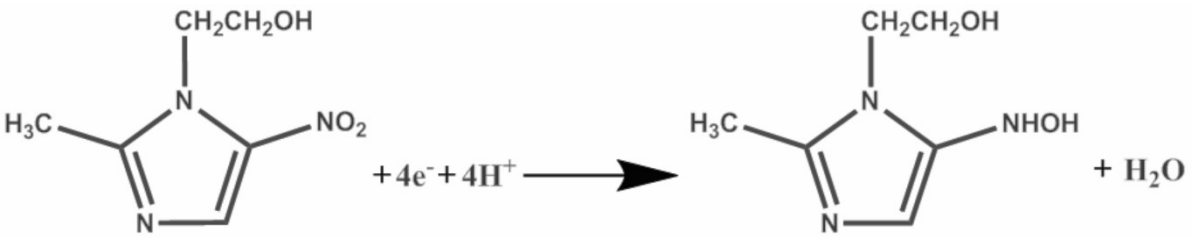
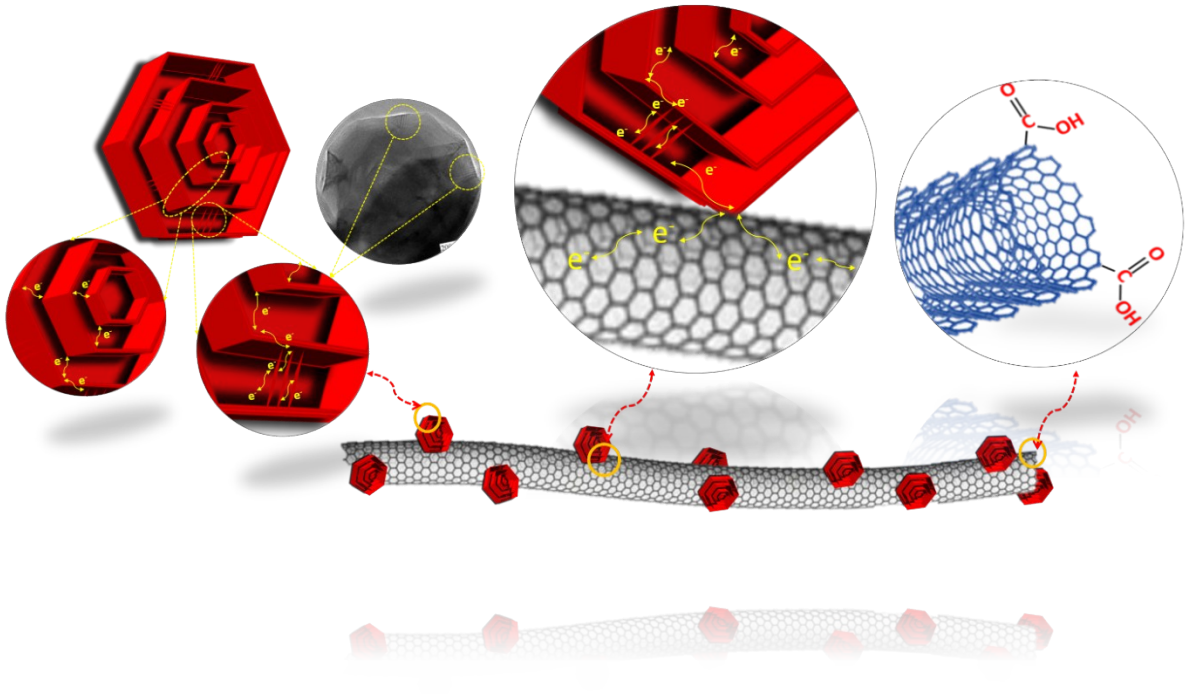
Electronic Supplementary Material (ESI) for Inorganic Chemistry Frontiers.

Supporting information



Scheme S1. Schematic illustration of electrochemical mechanism of MTZ.



Scheme S2: Schematic illustration for electron transfer mechanism in Mo_2C/f-CNF nanocomposite.

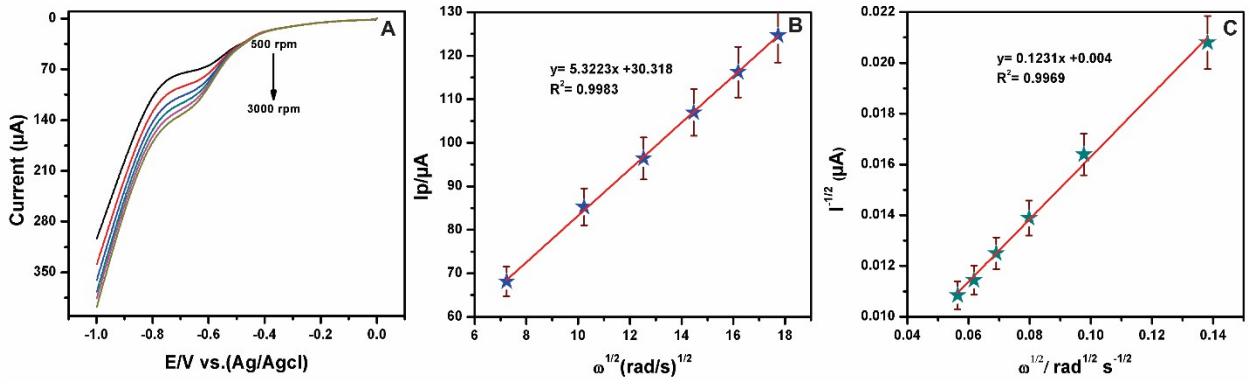


Fig S1. (A) (D) LSV curve Mo_2C/f-CNF modified RDE in N_2 purged 0.1 M PBS with presence of 0.825 mM MTZ by fluctuating rpm from ((a) 500, (b) 1000, (c) 1500, (d) 2000, (e) 2500, and (f) 3000, (B) Levich plot (n = 3), and (C) k-L plot (n = 3).

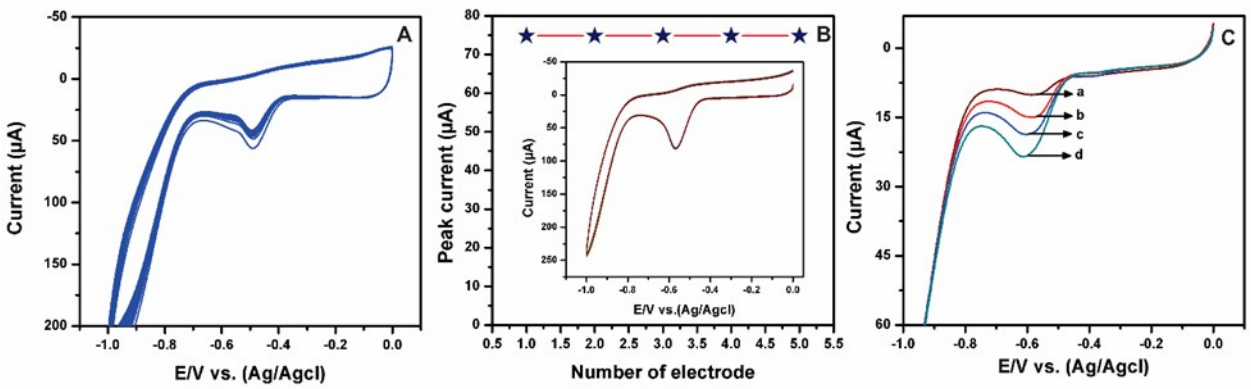


Fig S2. (A) The MTZ response of cyclic stability test (100 cycle) of Mo_2C/f-CNF/GCE in N_2 saturated 0.05M PBS (pH7). (B) Reproducibility curve of Mo_2C/f-CNF/GCE calibration plot and Inset; corresponding CV curve with MTZ (0.825 mM). (C)The LSV curve for real sample analysis((a) 15 µM, (b) 30µM, (c) 40 µM(c) and 50 µM.