SUPPLEMENTARY MATERIAL TO

**Electrochemical study of novel composite electrodes based on glassy carbon bulk-modified with Pt and MoO2 nanoparticles supported onto multi-walled carbon nanotubes**

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EXPERIMENTAL

*Chemicals*

MWCNT (carbon˃95%, OD x L 6–9 nm x 5 µm) which was used for synthesis of MoO2-MWCNT and Pt-MWCNT, chloroplatinic acid hydrate and sodium molybdate dihydrate were purchased from Sigma-Aldrich (USA). Potassium ferrocyanide, aniline and sodium borohydride were also purchased from Sigma-Aldrich (USA). 0.3 M NaOH , as well as 6 M NaOH were purchased from Merck (Germany). Deionized water was obtained in laboratory by using a Millipore purification system (USA).



Fig.S-1. Diagram of GC-MWCNT-Pt/Mo





Fig. S-2. Cyclic voltammograms for: (a) Commercial glassy carbon electrode (GCE), (b) MoO2-MWCNT GC, (c) Pt-MWCNT GC in 6 M NaOH at scan rates 0.005, 0.01, 0.02, 0.05, 0.1 V s-1

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