

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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J. Serb. Chem. Soc. 85 (9) (2020) 1185–1196

EXPERIMENTAL

Chemicals

MWCNT (carbon >95 %, OD × L 6–9 nm × 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). Deionised water was obtained in laboratory by using a Millipore purification system (USA).

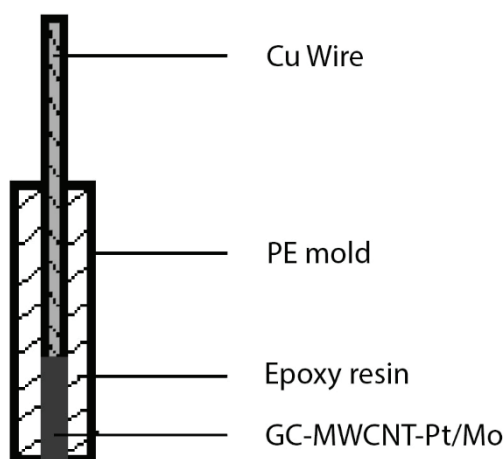


Fig. S-1. Scheme of the GC-MWCNT-Pt/Mo electrode.

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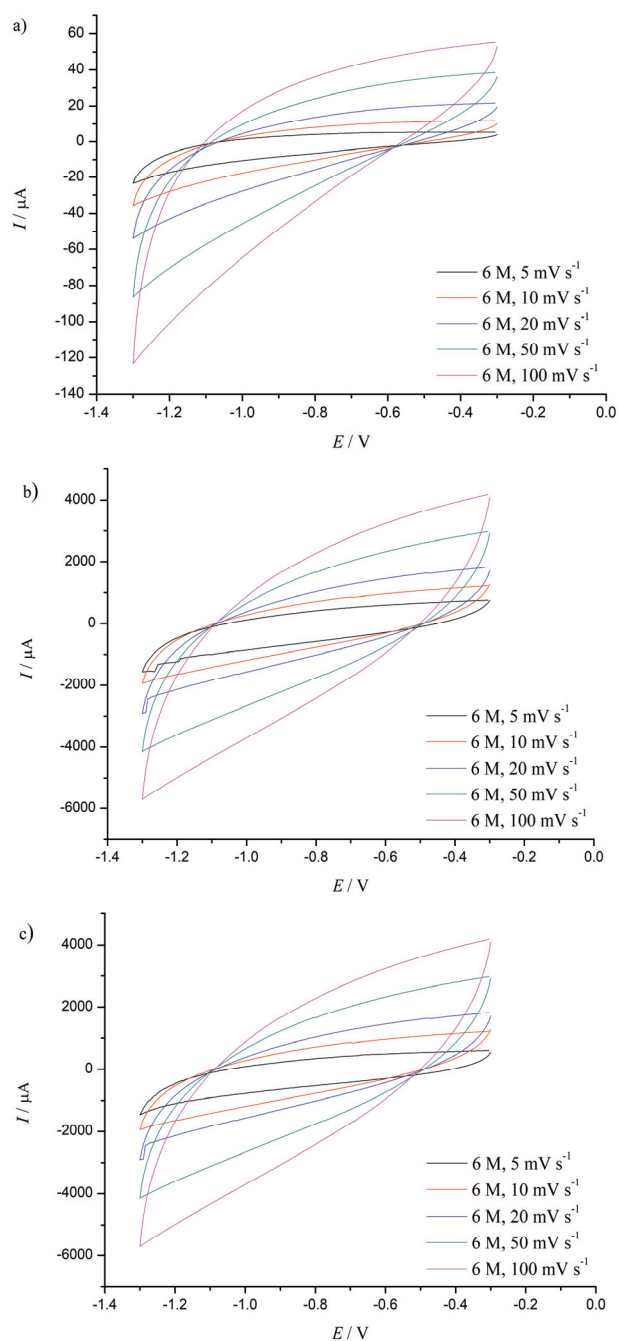


Fig. S-2. Cyclic voltammograms for: a) commercial glassy carbon electrode (GCE), b) MoO₂-MWCNT-GC and c) Pt-MWCNT-GC in 6 M NaOH at scan rates 0.005, 0.01, 0.02, 0.05, 0.1 V s⁻¹.