

Supplementary Information

Design of a new electrochemical sensing system based on MoS₂-TiO₂/reduced graphene oxide nanocomposite for paracetamol detection

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† Electronic supplementary information (ESI) available: XPS spectrum of rGO; Detailed EDS mapping images (Mo, S, Ti, O); DPVs of rGO/SPE, MoS₂-TiO₂/SPE, MoS₂-TiO₂/rGO/SPE towards Ac; stability measurements.

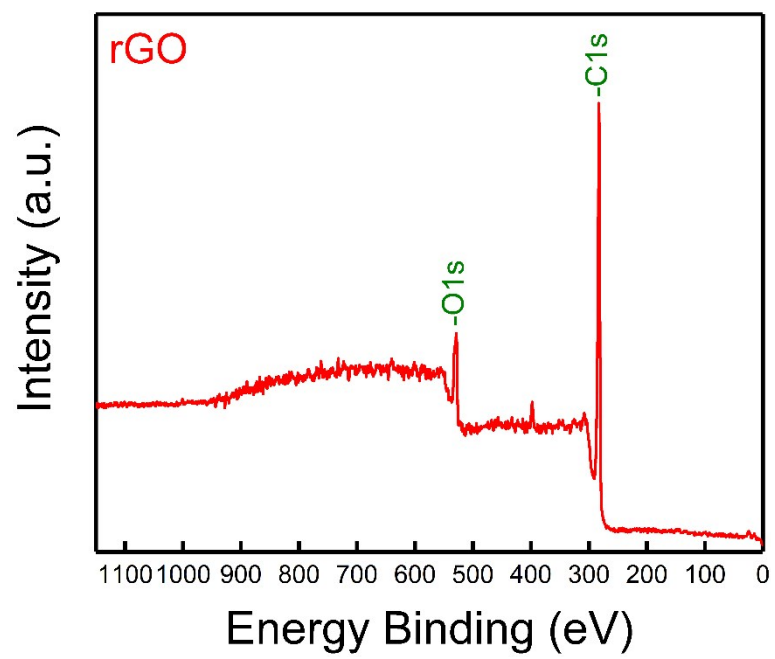


Fig. S1 XPS spectrum of rGO.

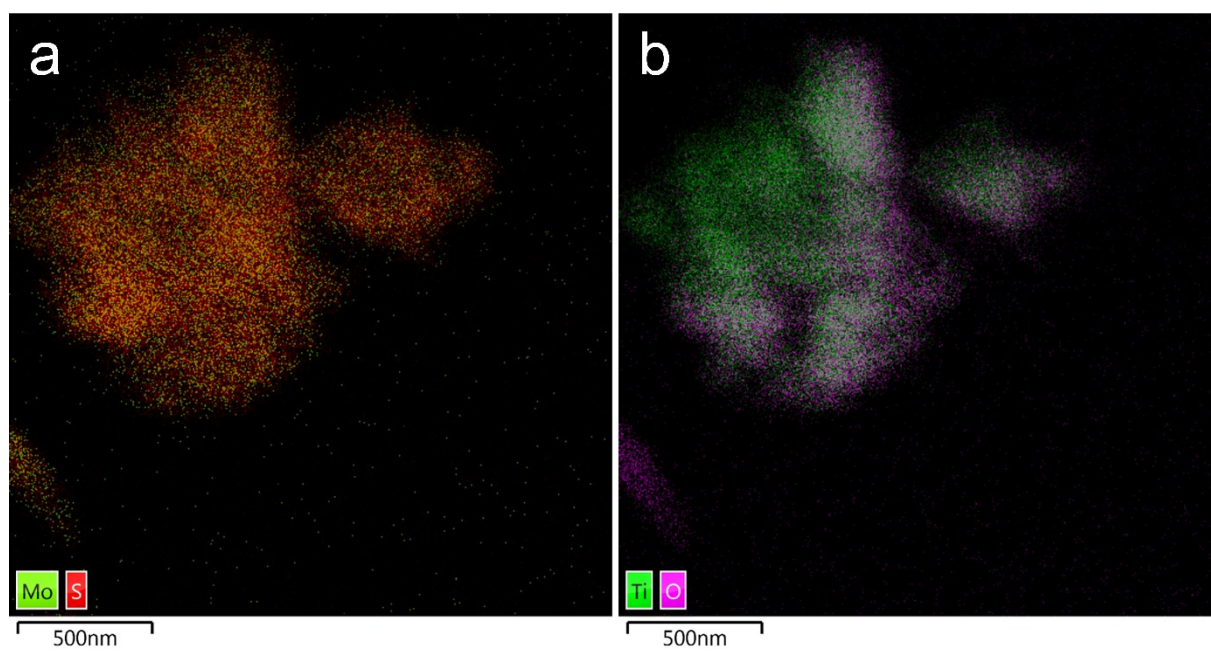


Fig. S2 EDS mapping of the Mo and S (a), Ti and O (b).

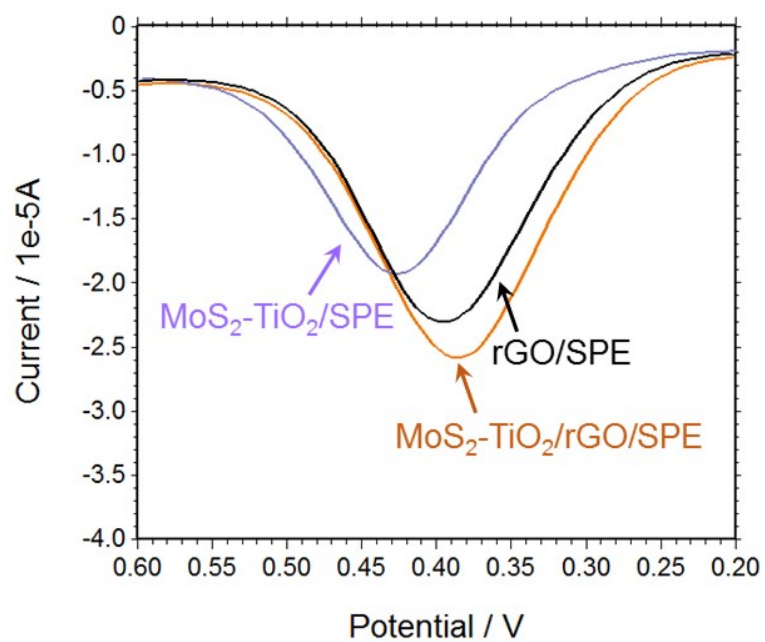


Fig. S3 DPVs of rGO/SPE , $\text{MoS}_2\text{-TiO}_2/\text{SPE}$ and $\text{MoS}_2\text{-TiO}_2/\text{rGO/SPE}$ for the detection of $50\text{ }\mu\text{M}$ Ac.

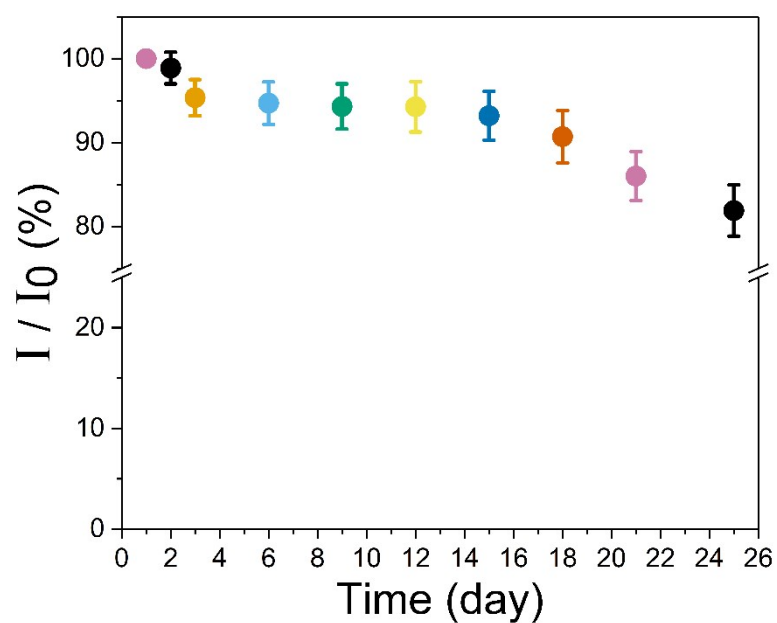


Fig. S4 Stability of MoS₂-TiO₂/rGO/SPE (Each data point of graph is based on measuring the current response of 10 μ M Ac in 0.1 M phosphate buffered solution, pH 7.4).