Supplementary Material for PCCP

Supporting Information

Supramolecular Multilayer Structures of Wired Redox Enzyme Electrodes

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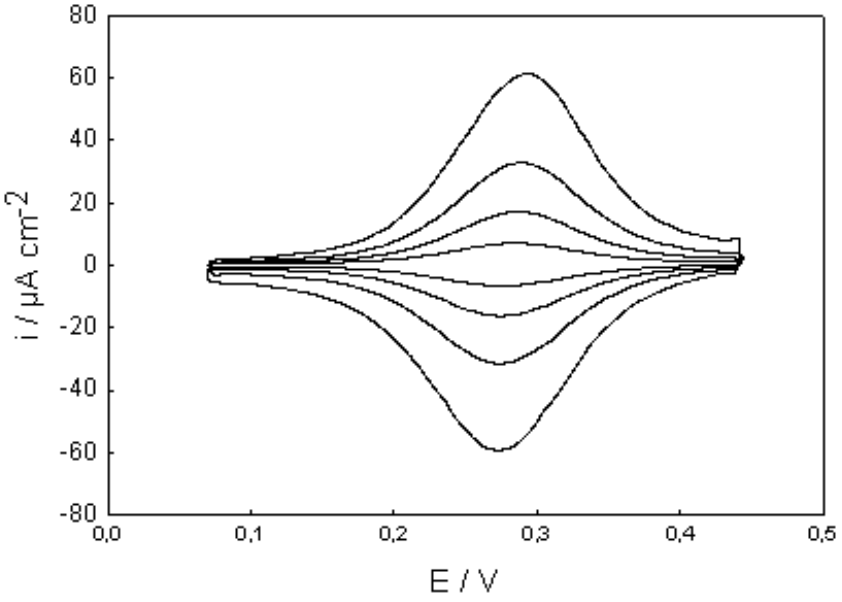

Fig. 1 Cyclic voltammetry of $(PAH\text{-}Os)_{10}(GOx)_{10}$ in 0.1 M Tris buffer of pH 7.5 and 0.2 M KNO_3 . Scan rates: 0.05, 0.1, 0.2 and 0.4 V s^{-1}

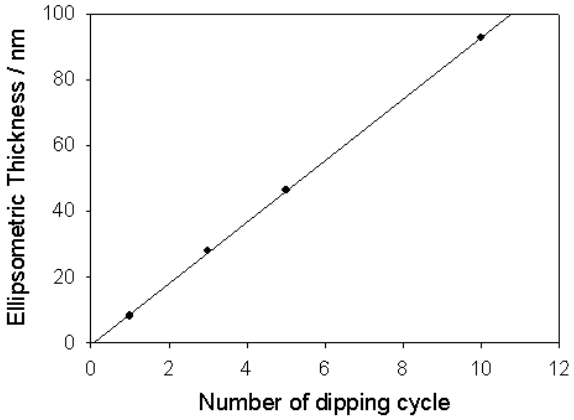

Fig. 2 Ellipsometric thickness of self-assembled lbl $(PAH\text{-}Os)_n(GOx)_n$.

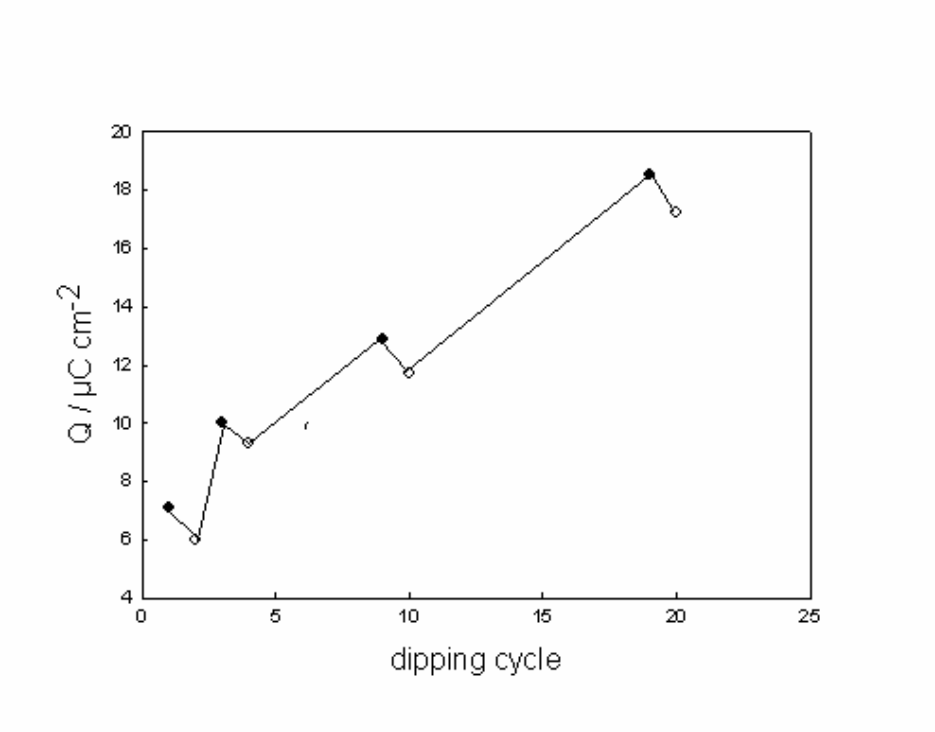

Fig. 3 Redox charge as a function of dipping cycles. Filled symbols correspond to PAH-Os terminated layers while open symbols refer to GOx as the topmost layer.

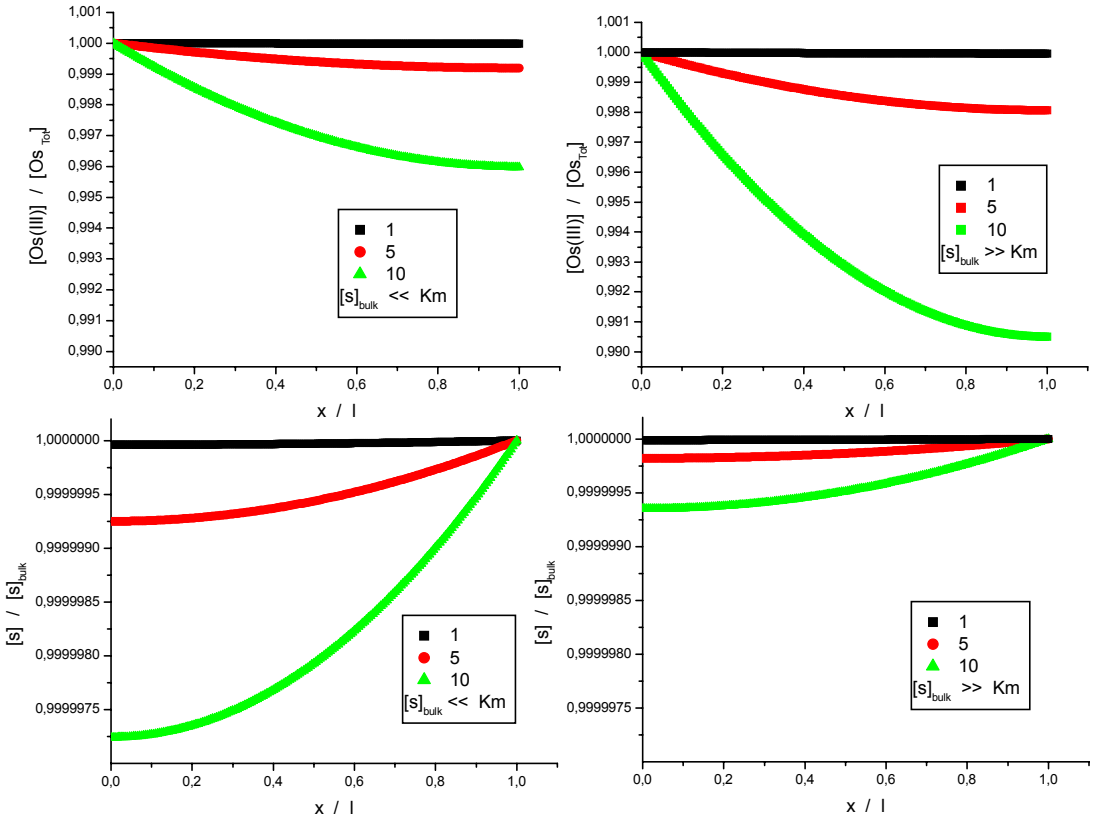

Fig. 4 Simulated normalized concentration profiles for glucose and Os(III) in (PAH-$Os)_n(Gox)_m$ LbL self-assembled multilayers as a function of the films thickness for the conditions described in the text.