

## Supporting Information for

### Electrochemical oxidation of a complex mixture of phenolic compounds in the base media using PbO<sub>2</sub>-GNRs anodes

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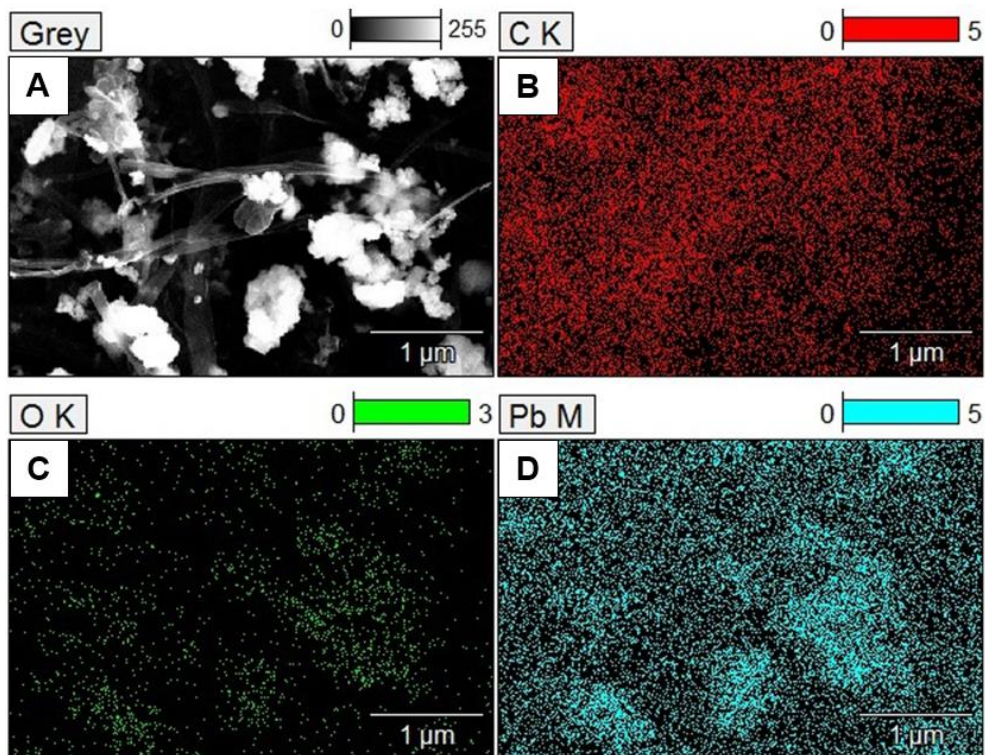
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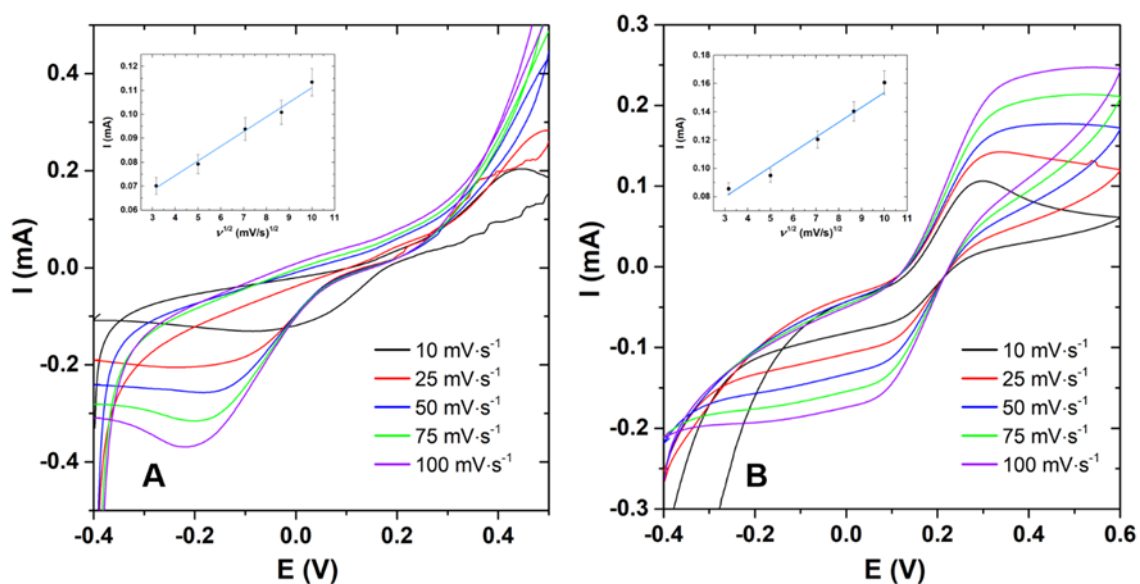
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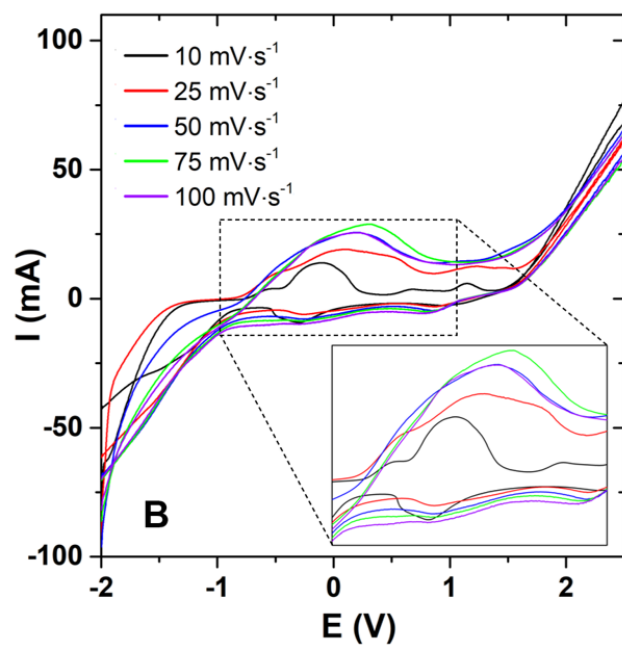
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**Fig. S1.** FESEM-EDS characterization of  $\text{PbO}_2$ -GNRs nanocomposites: **A)** FESEM image; **(B–D)** corresponding EDS elemental mapping of C, O and Pb, respectively and **C)** EDS spectrum.



**Fig. S2.** Cyclic voltammograms of  $\text{K}_3[\text{Fe}(\text{CN})_6]$  (1 mM) at **A)** bare anode; **B)**  $\text{PbO}_2$ -GNRs-modified anode at various scan rates. The supporting electrolyte was 0.1 M KCl.



**Fig. S3.** CV voltammograms of phenol standard using our prepared electrode at various scan rates 10, 25, 50, 75 and 100  $\text{mV}\cdot\text{s}^{-1}$ .