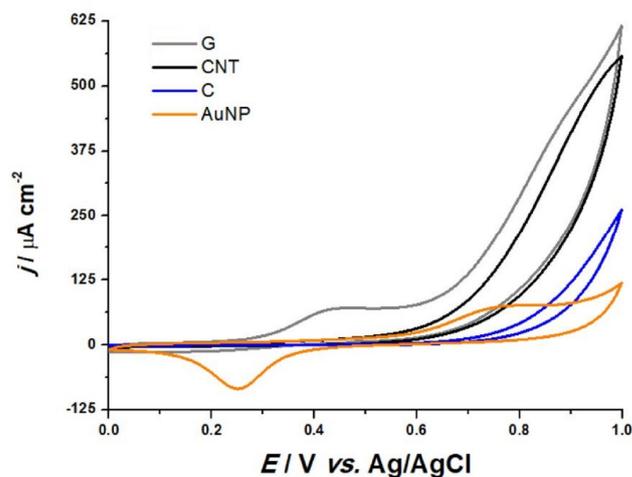


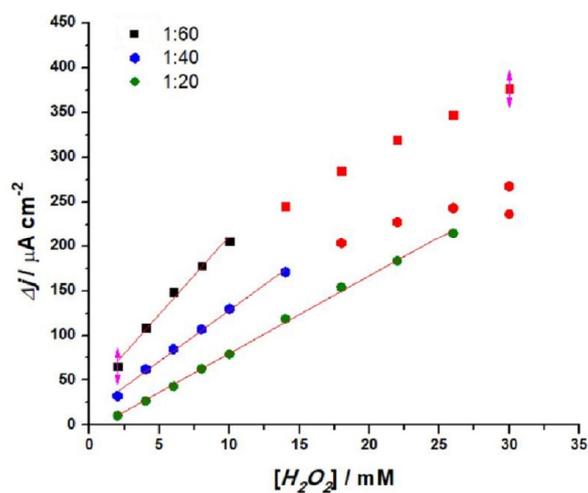
## Supplementary Materials



**Figure S1.** CV in 0.1 M NaPB, pH 7.0, in the presence of 6 mM  $H_2O_2$  addition,  $v = 50 \text{ mV s}^{-1}$  for bare SPE (C) and nanoparticle modified SPE with AuNP, CNT and G.

**Table S1.** Capacitance values calculated for all sensor types from the CVs in figure S1.

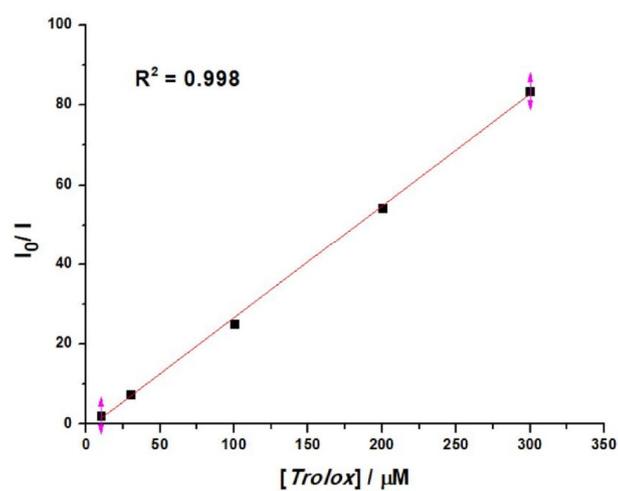
Sensor (SPE)	$C/\text{mF cm}^{-2}$
bare (C)	0.03
G	1.23
CNT	0.30
AuNP	0.34



**Figure S2.** Calibration plots recorded at 0.55 V vs. Ag/AgCl in 0.1 M NaPB with an extract for different dilutions, pH = 7.0.

**Table S2.** Performance parameters for the three different E: buffer dilutions in figure S2.

Extract	$S/\text{mA mM}^{-1} \text{ cm}^{-2}$	$R^2$	LoD/mM
1:20	8.66	0.998	0.60
1:40	11.37	0.995	0.75
1:60	17.46	0.991	1.76



**Figure S3.** Calibration plot of CL signal ( $I_0/I$ ) as a function of trolox concentrations.



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