

Supporting Information

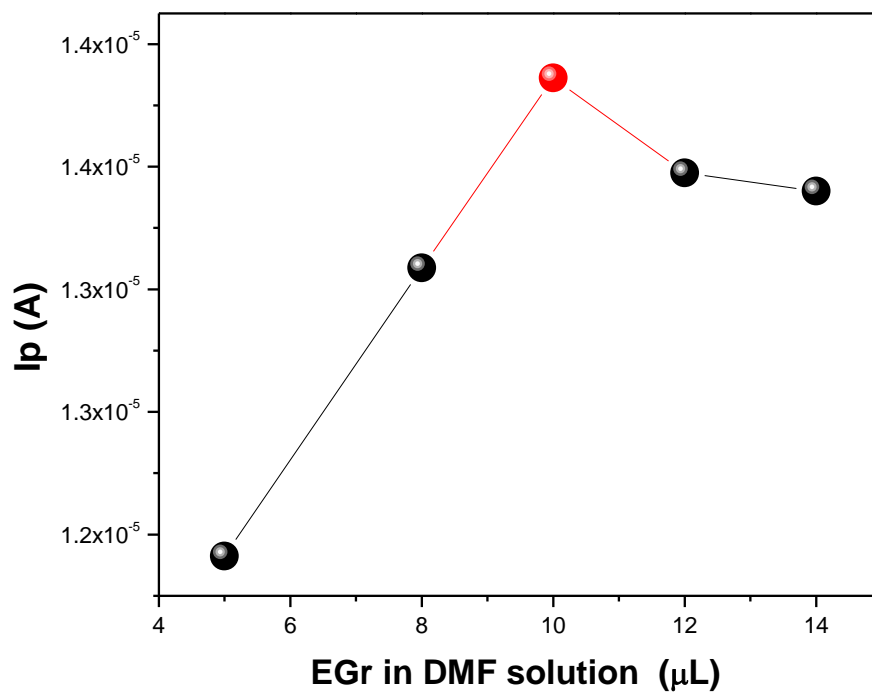


Figure S1. Variation of nitrite peak current with the amount of graphene deposited on top of GC electrode (10^{-3} M NaNO_2 solution (pH 5.0); 2 mg/mL graphene in DMF)

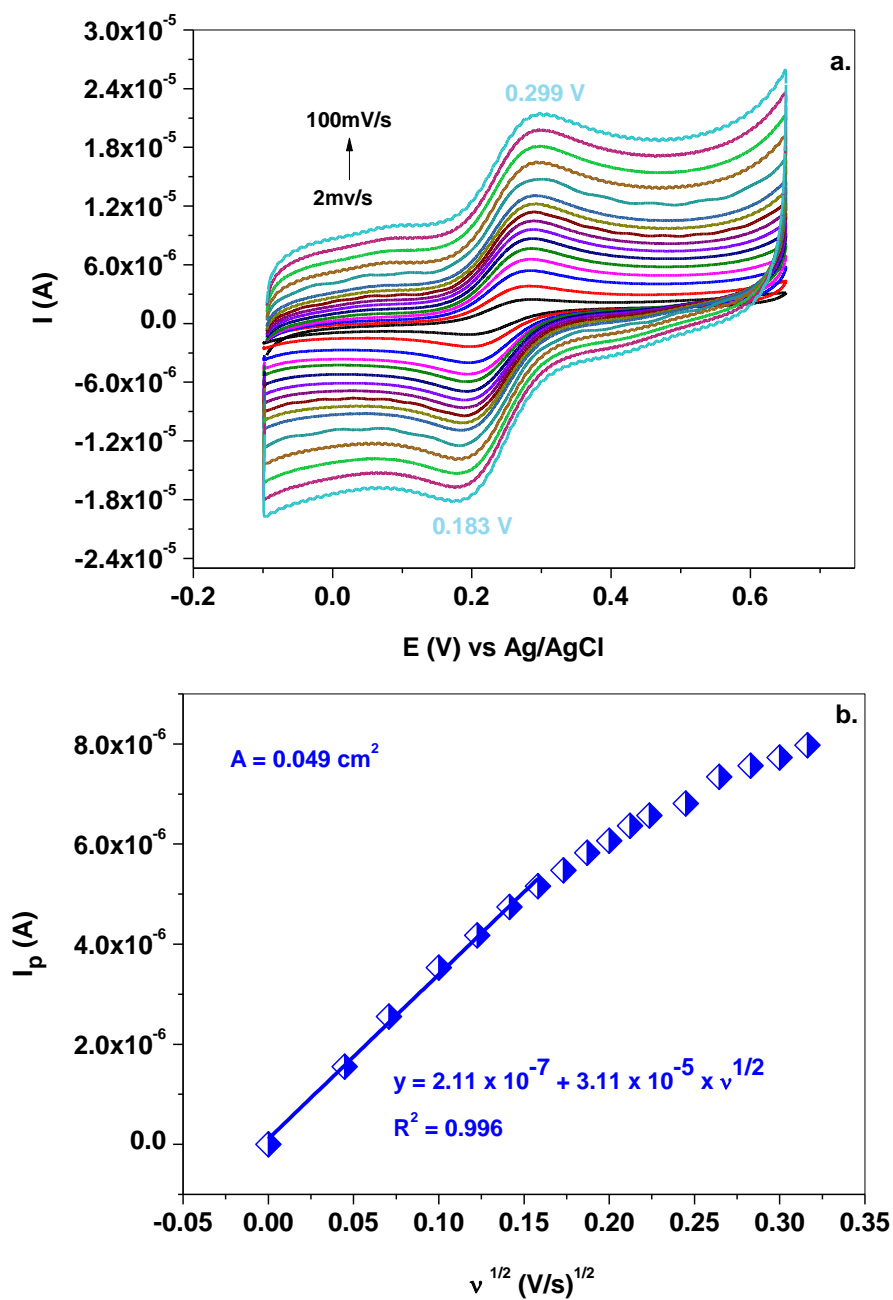


Figure S2. Cyclic voltammograms recorded with various scan rates (from 2 to 100 mV/s) in solution containing 10^{-3} M potassium ferrocyanide (0.2 M KCl supporting electrolyte)

(a);

I_p versus $v^{1/2}$ plot, which allowed the determination of the active area (b)

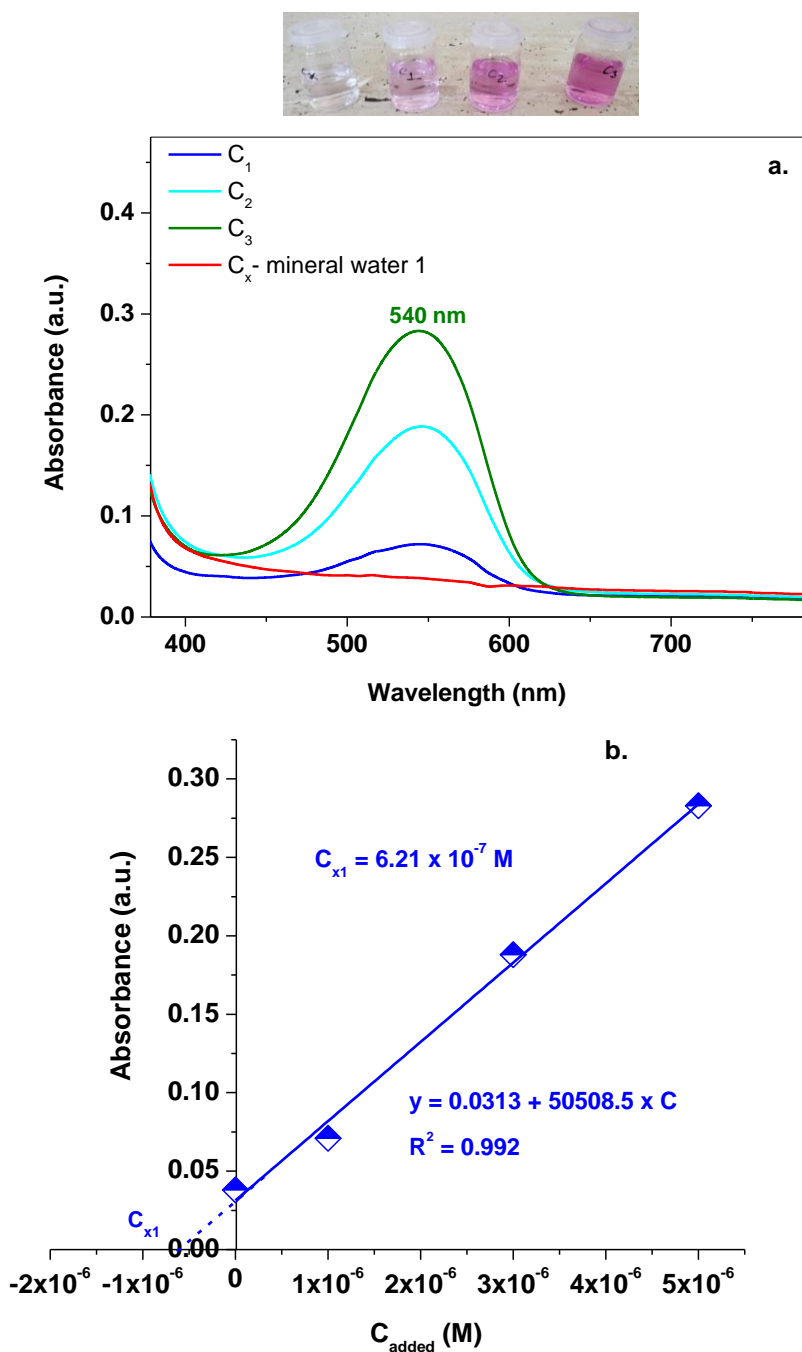


Figure S3. UV-Vis spectra recorded in mineral water 1 (C_{x1}) and in solutions containing mineral water 1 and the added NaNO_2 volumes of 10^{-3} M stock solution (10; 30 and 50 μL corresponding to C_1 ; C_2 and C_3 concentrations, respectively); one spoon (75 mg) of MQuant® Nitrite Test powder was added in each beaker to color the solutions (a); the standard addition plot which allowed the determination of C_{x1} (b)

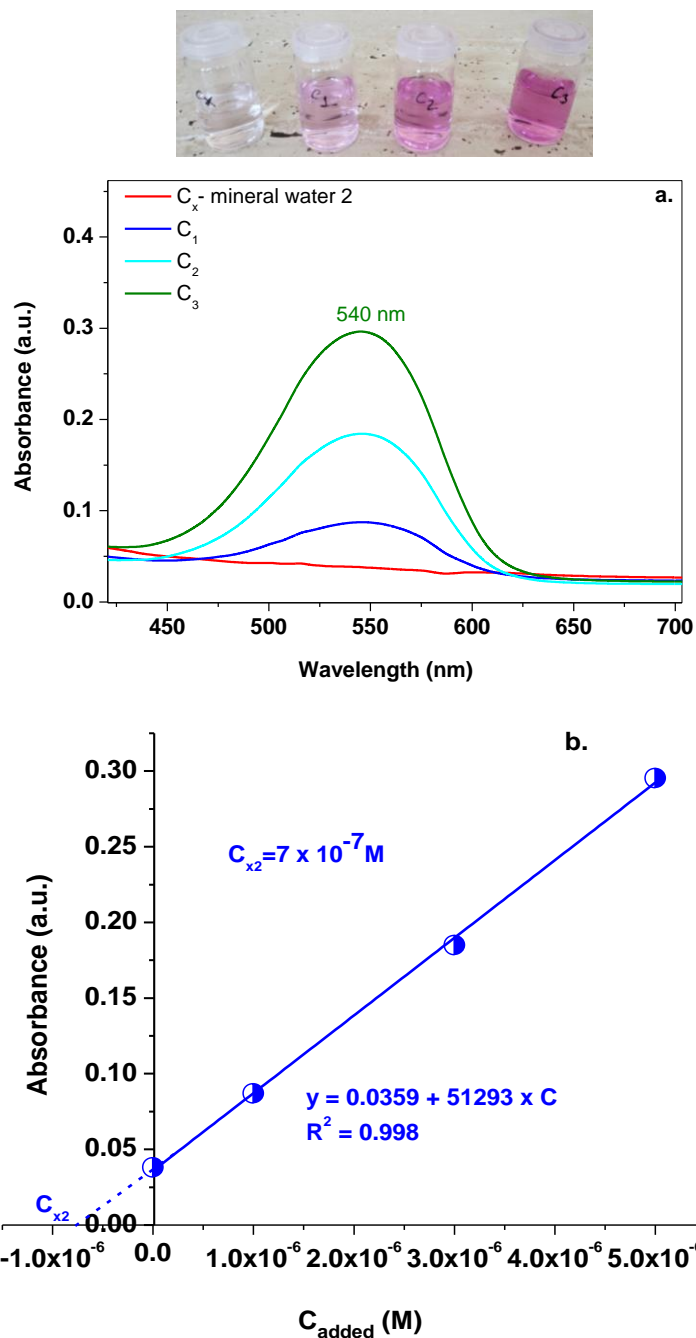


Figure S4. UV-Vis spectra recorded in mineral water 2 (C_{x2}) and in solutions containing mineral water 2 and the added NaNO_2 volumes of 10^{-3} M stock solution (10; 30 and 50 μL corresponding to C_1 ; C_2 and C_3 concentrations, respectively); one spoon (75 mg) of MQuant® Nitrite Test powder was added in each beaker to color the solutions (a); the standard addition plot which allowed the determination of C_{x2} (b)