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Differential pulse stripping voltammetric determination of the antipsychotic medication olanzapine at a magnetic nano-composite with a core-shell structure

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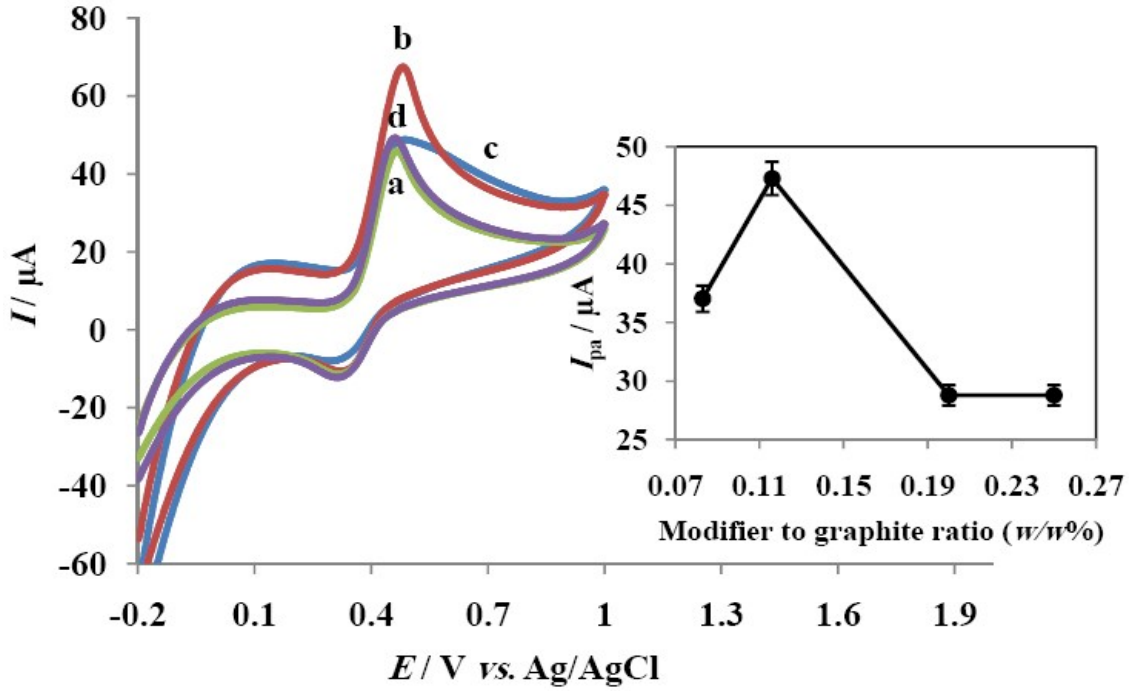

Figure S1 Cyclic voltammograms of (a) 0.083, (b) 0.12, (c) 0.21 and (d) 0.25% (w/w) modifier to graphite in 5 µmol L^{-1} OLZ solution (pH 4.3). Inset: anodic peak current *vs.* ratio of modifier to graphite in a solution of 5 µmol L^{-1} OLZ (pH 4.3).

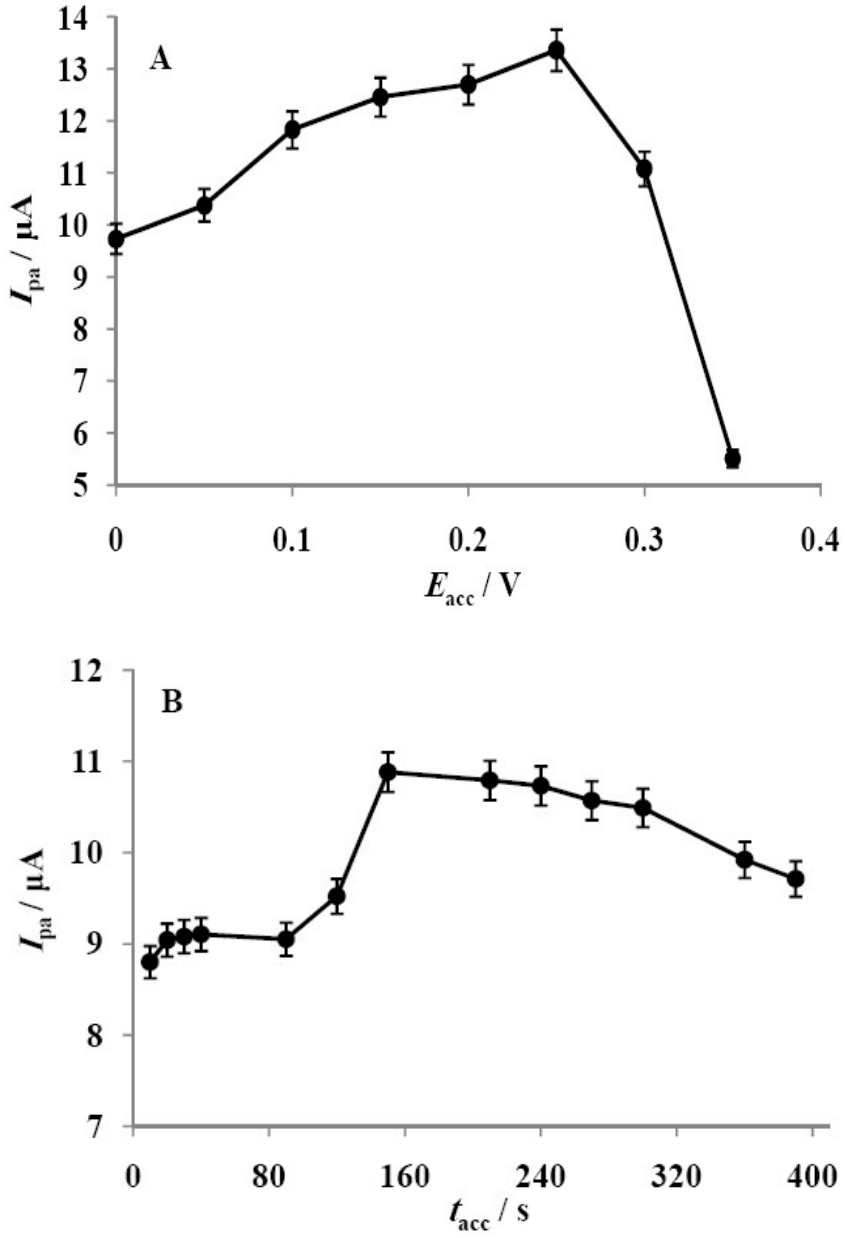

Figure S2 Anodic peak current *vs.* (A) accumulation potential and (B) accumulation time in 5 μmol L^{-1} OLZ solution (pH 4.3).

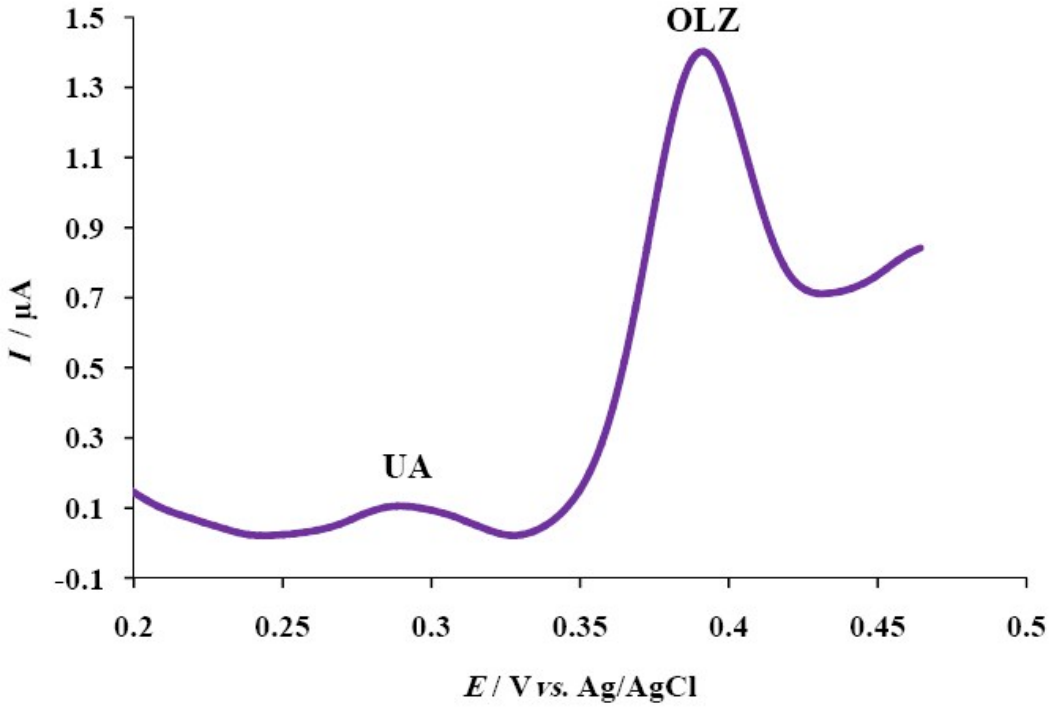

Figure S3 DPV obtained at the Fe_3O_4@Ag|CPE in 0.1 mol L^{-1} acetate buffer (pH 4.3) for a sample with known concentrations of OLZ (7.4 µmol L^{-1}) and UA (7.4 µmol L^{-1}). Other conditions were as for Fig. 7.

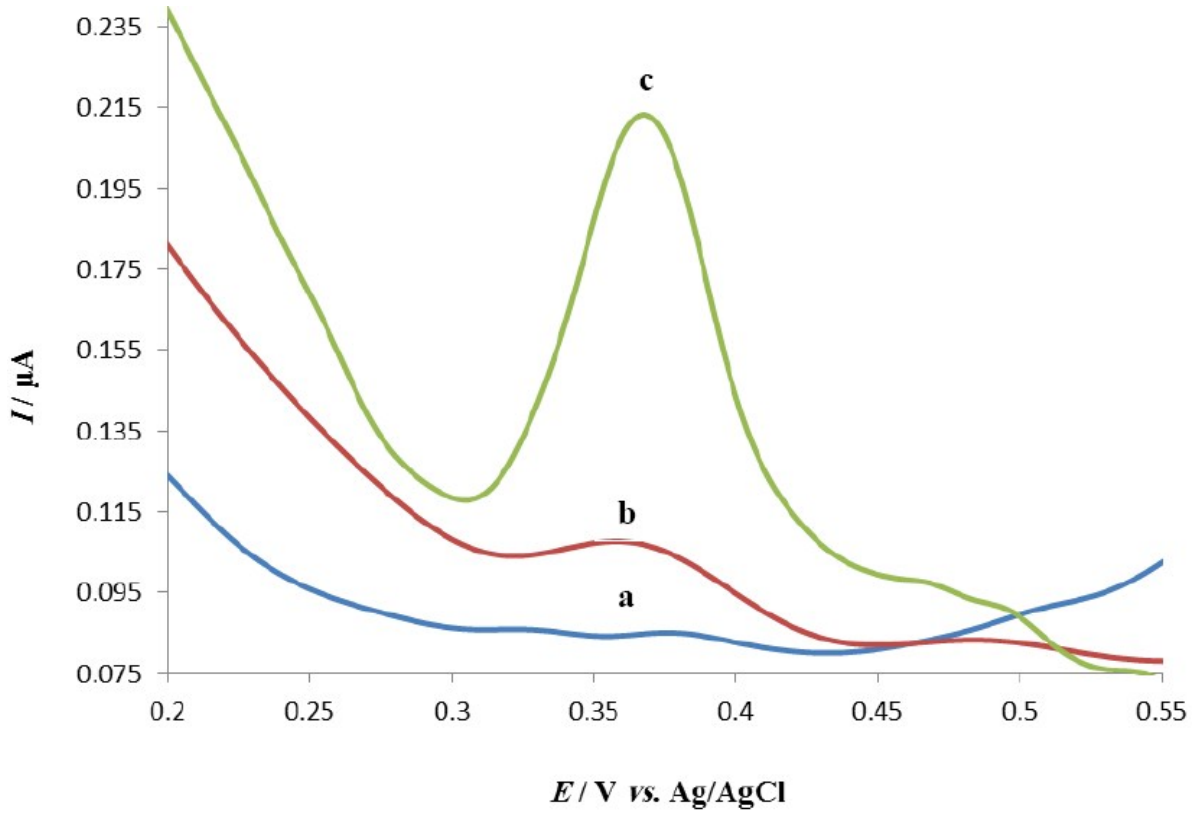

Figure S4 DPVs obtained for the oxidation of OLZ at the surface of Fe_3O_4@Ag|CPE in serum of schizophrenia patient: (a) blank, (b) a + 1.38 µmol L^{-1} OLZ and (c) a + 9.98 µmol L^{-1} OLZ.