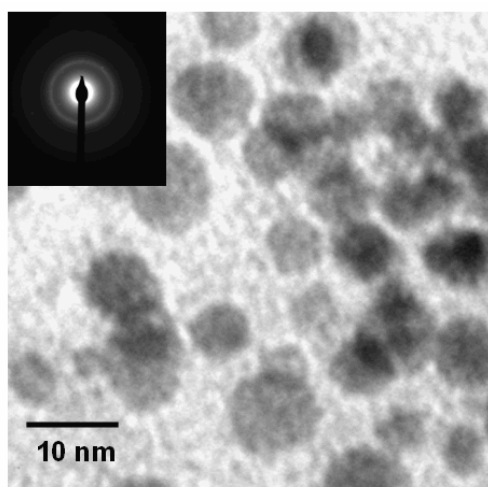


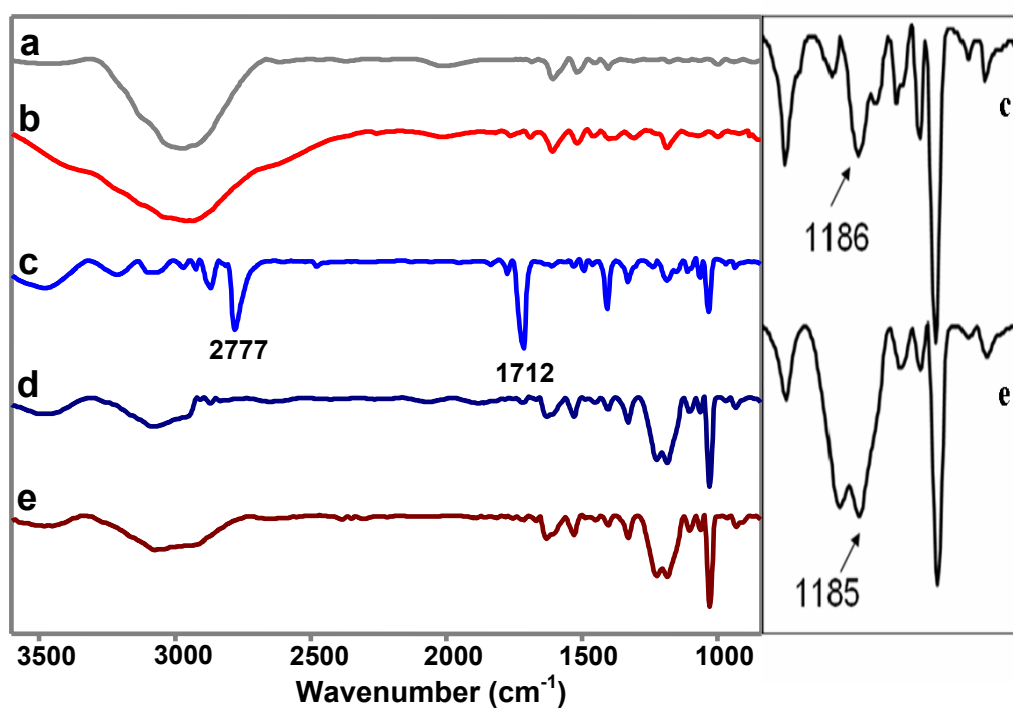
Synergistic interaction between gold nanoparticles and nickel phthalocyanine in layer-by-layer (LbL) films: Electrocatalytic investigation and evidence of constitutional dynamic chemistry (CDC)

Wagner S. Alencar, Frank N. Crespilho, Marccus V. A. Martins, Valtencir Zucolotto, Osvaldo N. Oliveira Jr., Welter C. Silva

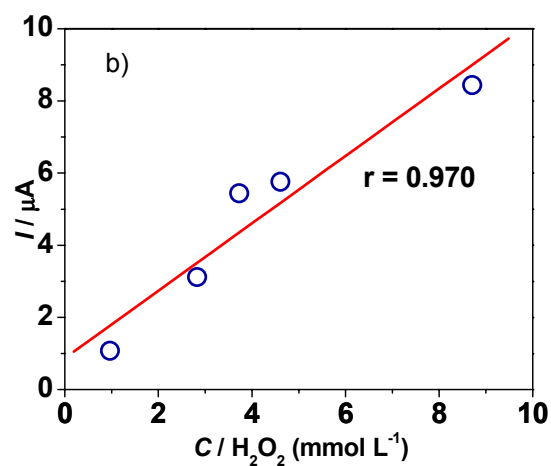
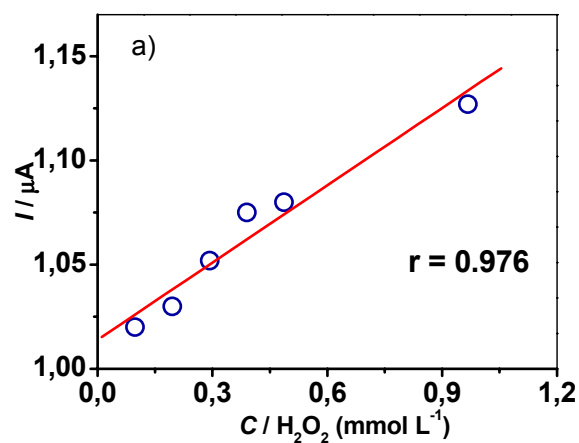
Electronic Supplementary Information



TEM image of Au nanoparticles stabilized with PAH polyelectrolyte.



FTIR spectra for cast films of: a) PAH, b) PAH-AuNP, c) NiTsPc cast films; and LbL films of d) $(\text{PAH}/\text{NiTsPc})_{25}$ and e) $(\text{PAH-AuNP}/\text{NiTsPc})_{25}$. The salt bridge formation is evidenced in the right part of the figure.



H_2O_2 response curves at lower (a) and higher (b) concentration. The current values were obtained from cyclic voltammograms of 5-bilayer films of PAH-AuNP/NiTsPc at scan rate of 100 mV s^{-1} . Electrolyte: HCl solution 0.1 mol L^{-1} , $T = 25^\circ\text{C}$.