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

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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) \((\text{PAH/NiTsPc})_{25}\) and e) \((\text{PAH-AuNP/NiTsPc})_{25}\). 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$^{-1}$, $T = 25$ °C.