

Oxygen Reduction at Nanostructured Electrodes Assembled from Polyacrylate-capped Pt Nanoparticles in Polyelectrolyte

Zaki G Estephan, Leen Alawieh, and Lara I. Halaoui*. Chemistry Department, American University of Beirut, Beirut 110236, Lebanon. *Email: lh07@aub.edu.lb

Supporting Information:

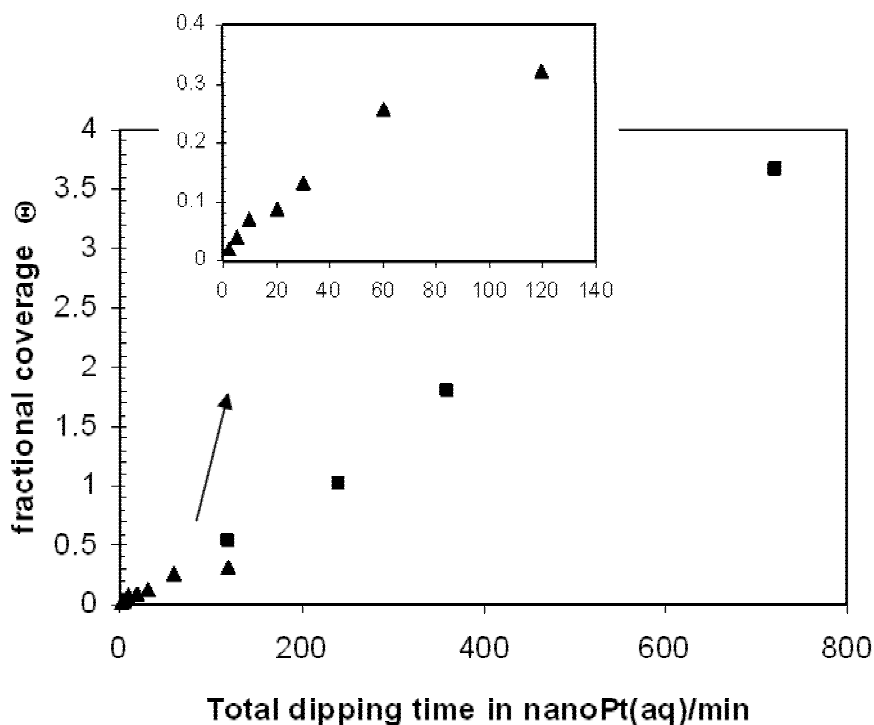


Figure S1. Estimated fractional coverage $\theta = A_{\text{real}}/A_{\text{monolayer}}$ of Pt nanoparticles on the electrode surface vs. the total dipping time (in Pt nanoparticle solution): ■ for multilayers (60 min \equiv 1 bilayer), and ▲ for 1 layer assembly.

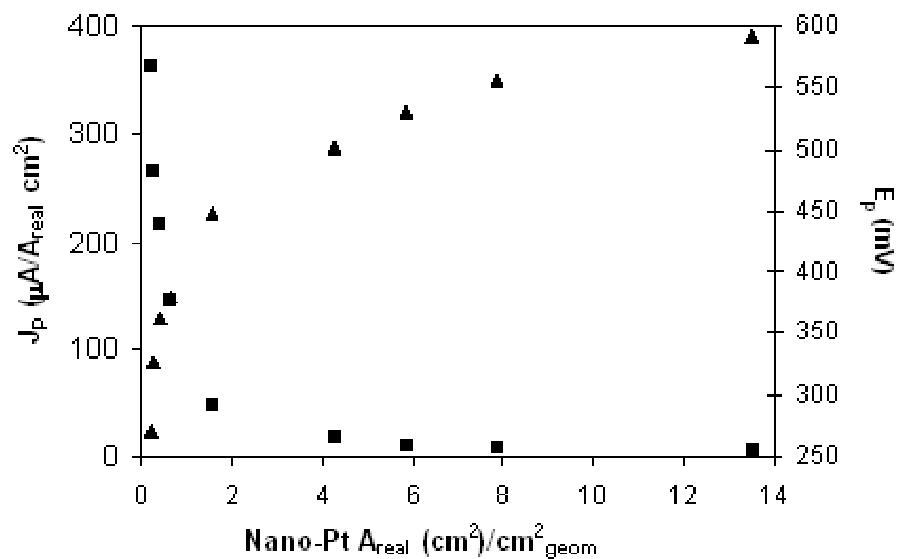


Figure S2. Peak current density (■) per real Pt surface area (A_{real}) and E_p (▲, secondary axis) for oxygen reduction plotted vs. the real surface area for Pt nanoparticle assemblies on Glassy Carbon (GC) electrode, in air-saturated 1 M H_2SO_4 . Data obtained from CVs acquired at 20 mV/s.