

**Atomically-Defined Model Catalysts in
Ultrahigh Vacuum and in Liquid Electrolytes:
Particle Size-Dependent CO Adsorption on
Pt Nanoparticles on Ordered Co₃O₄(111) Films**

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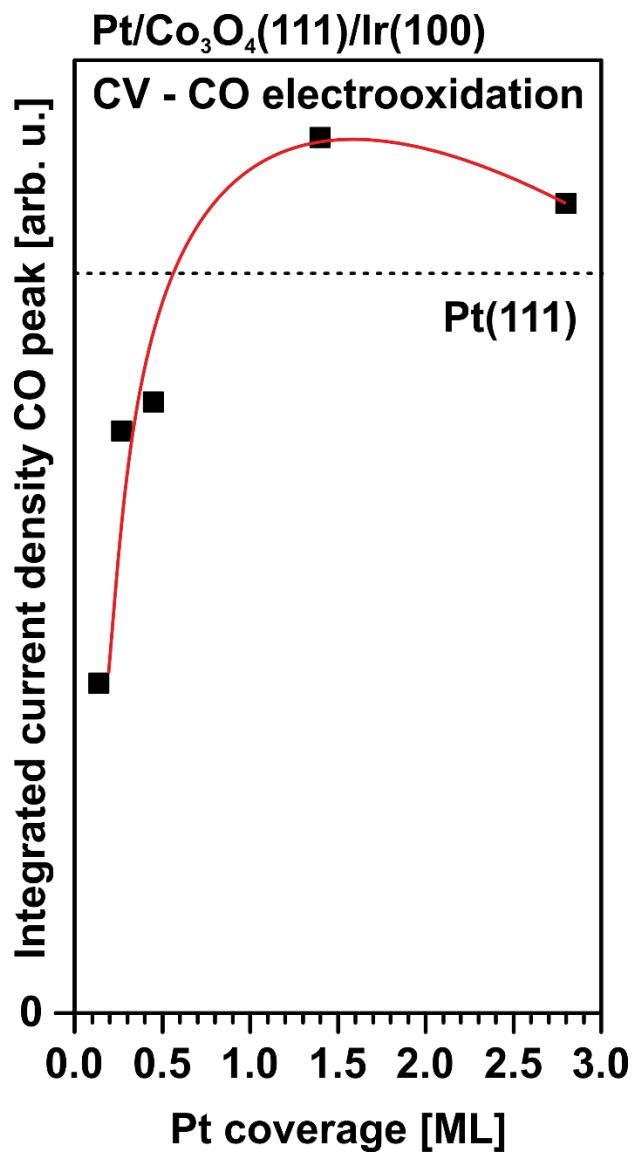


Figure SI 1: Integrated current density of the CO oxidation derived from the CO stripping experiment shown in Figure 4 as a function of the Pt loading. The CO peak was integrated using a linear background.

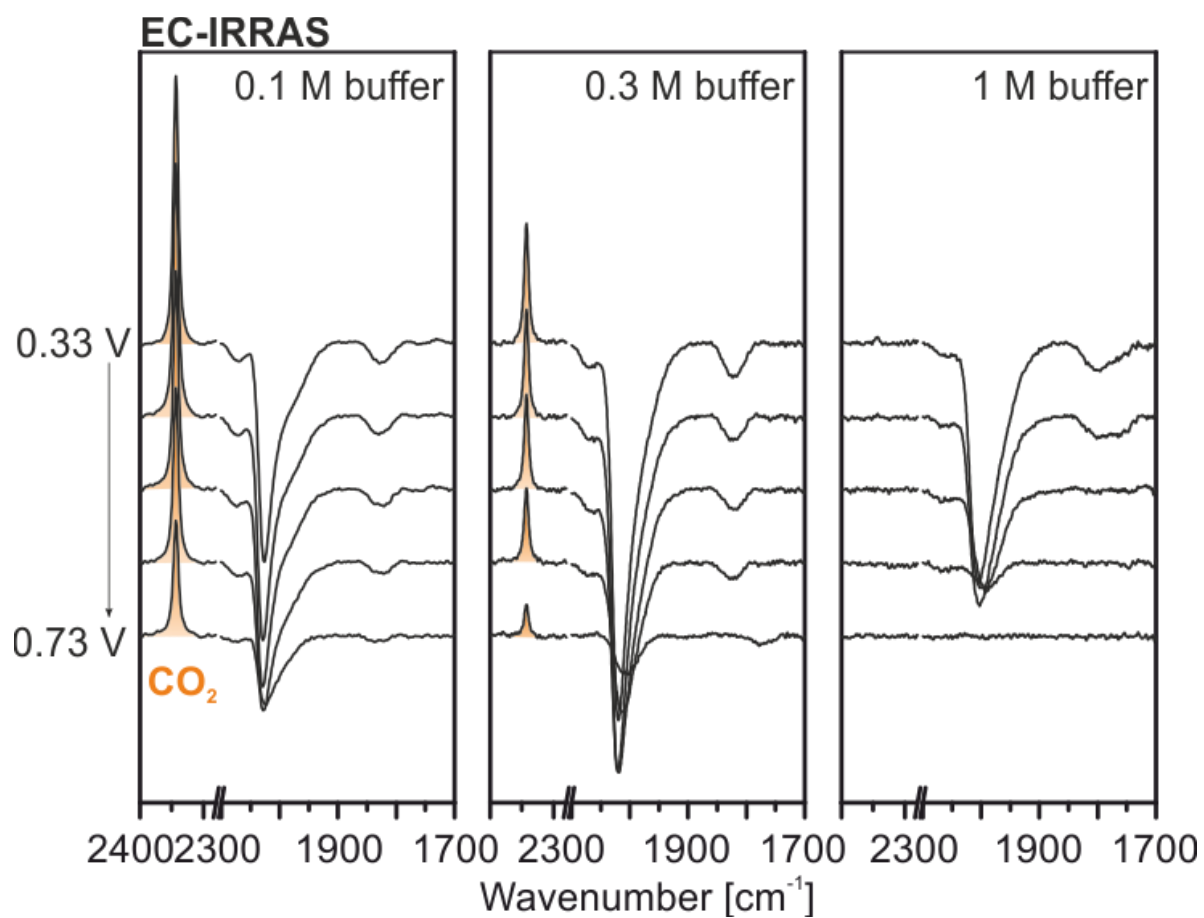


Figure SI 2: Potential-dependent EC-IRRAS spectra of CO adsorbed on Pt/Co₃O₄(111) using phosphate buffer concentrations of a) 0.1 M, b) 0.3 M and c) 1 M at pH 10. The spectra are referenced against 0.83 V_{RHE}.

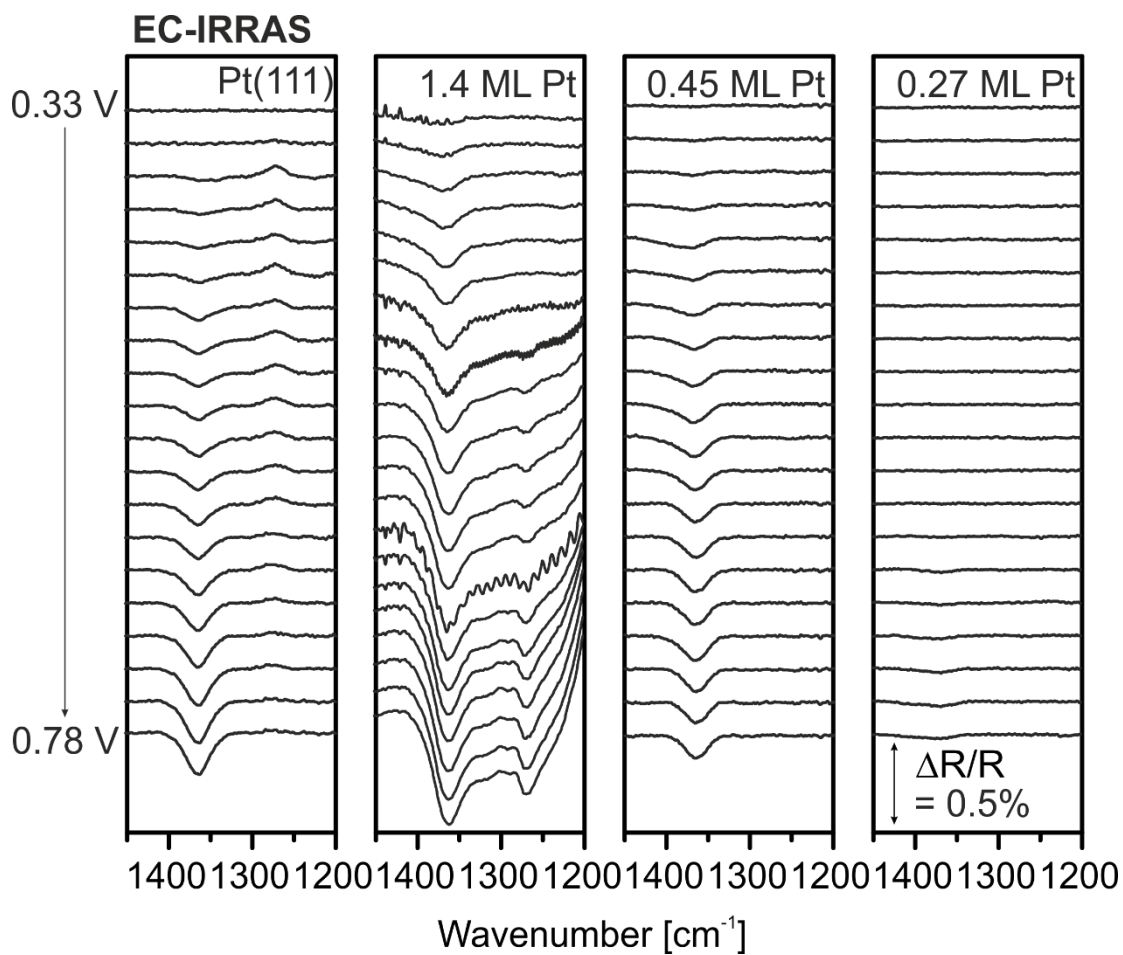


Figure SI 3: Carbonate region of the potential-dependent EC-IRRAS spectra of CO adsorbed on a) Pt(111), b) 1.4 ML Pt eq./ Co_3O_4 , c) 0.45 ML Pt eq./ Co_3O_4 and d) 0.27 ML Pt eq./ Co_3O_4 . The spectra are referenced against $0.805 \text{ V}_{\text{RHE}}$.