

Figure 1: Representative schematic of a metal-mesh transparent conductive electrode.

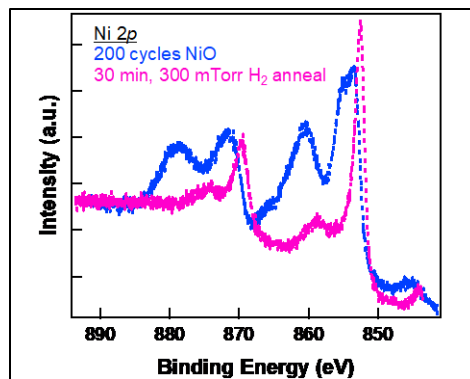


Figure 2: Ni 2p XP spectra after 200 ALD cycles on SiO₂ (blue) and after 30 min H₂ anneal (magenta).

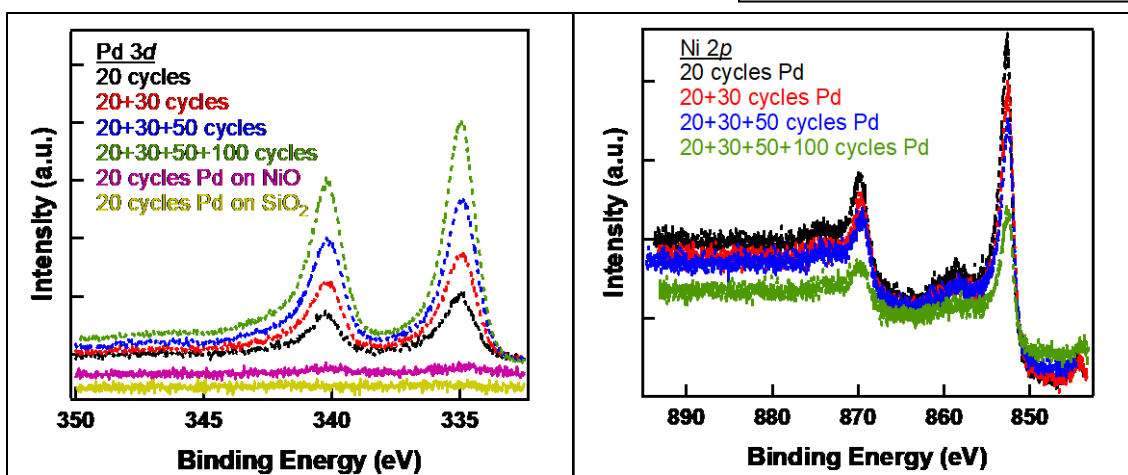


Figure 3: XP spectra of Pd 3d (left) and Ni 2p (right) of 20, 50, 100, 200 cycles Pd on ~4 nm Ni. 20 cycles Pd on SiO₂ and 100 cycles on NiO also shown for comparison. There is no nucleation delay on the Ni film.

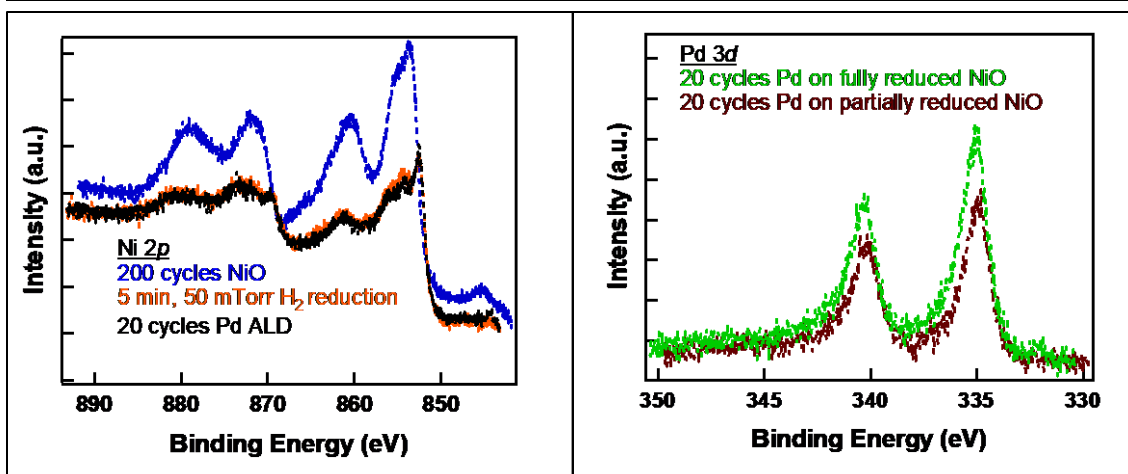


Figure 4: XP spectra of Ni 2p (left) after NiO ALD (blue), after H₂ annealing (orange) and after 20 cycles Pd ALD (black). XP spectra of Pd 3d (right) after 20 Pd ALD cycles on ~15 nm NiO partially reduced to Ni(0) (brown) and completely reduced (green).