

Figure 2: Top: *In-situ* XP spectra of 100 cycles NiO film after 5 min (blue) and 30 min (red) H_2 anneal at 300 °C. Bottom: Corresponding *ex-situ* AF micrographs of the film surface after capping with 3 nm Pd. As-grown films have Rq of ~2 Å; 30 min anneal fully reduced the film and dewetting ensued.

