

Supplementary Materials

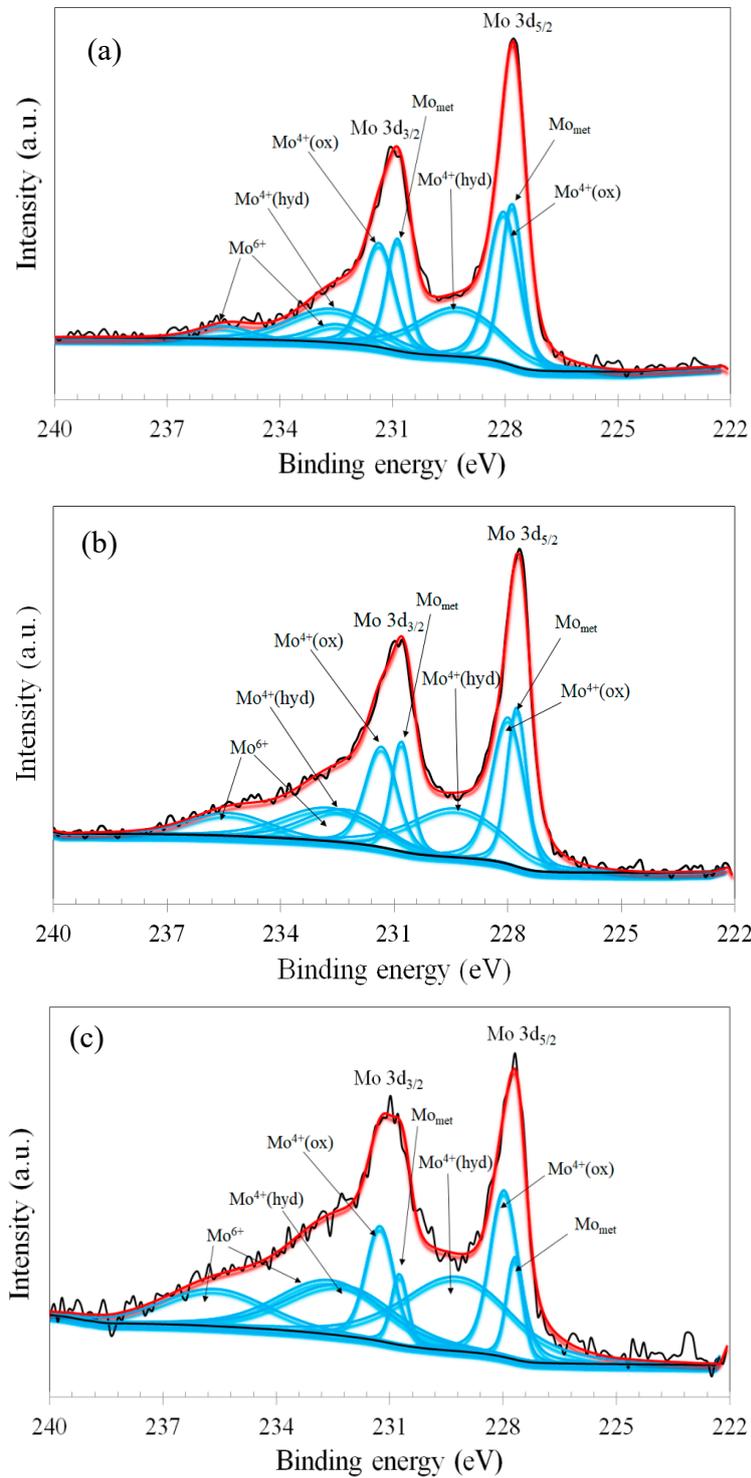


Figure S1. XPS narrow scan spectra in the Mo 3d region: a) naturally formed passive film; b) wear track of the OCP sample; c) wear track of the -100 mV vs. OCP.

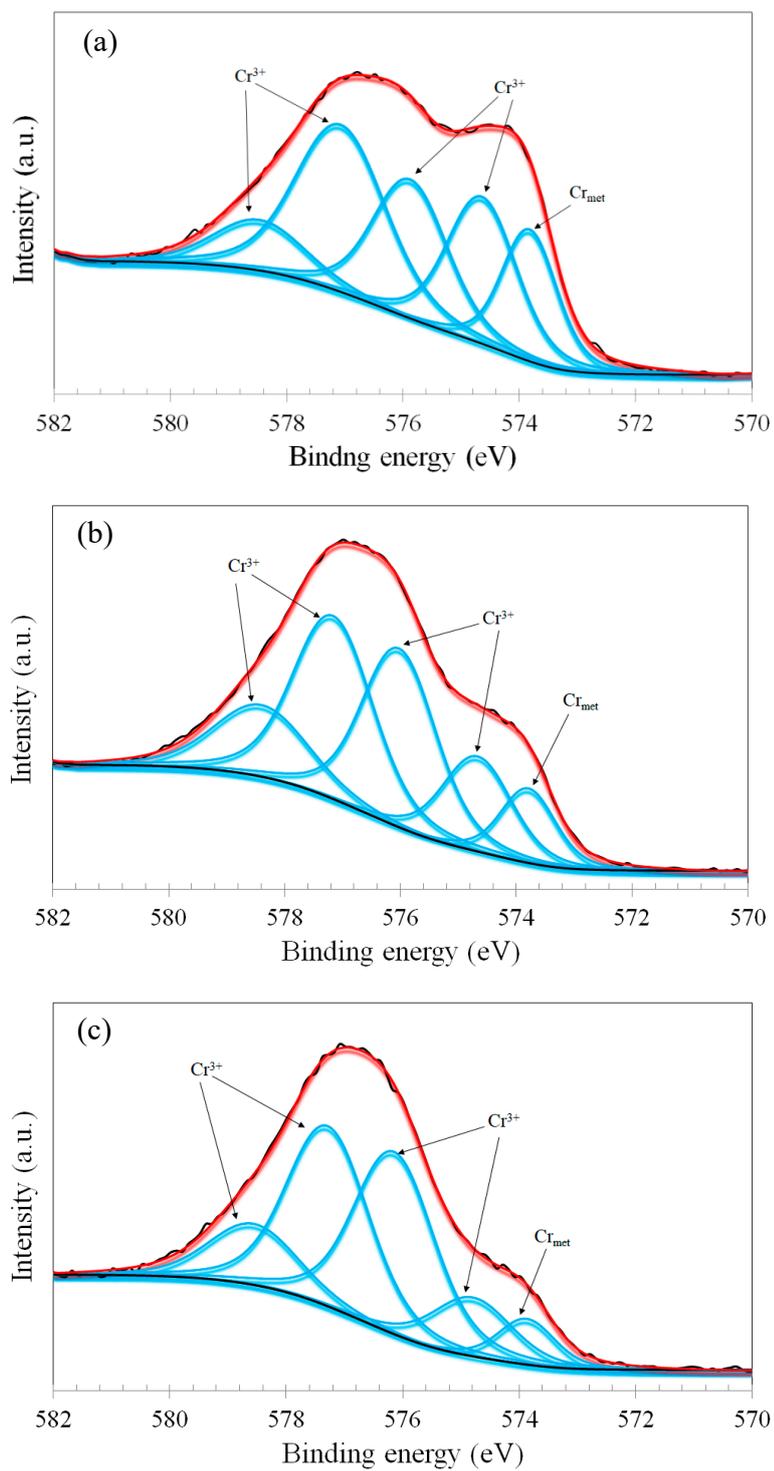


Figure S2. XPS narrow scan spectra in the Cr 2p_{3/2} region: a) naturally formed passive film; b) wear track of the OCP sample; c) wear track of the -100 mV vs. OCP.

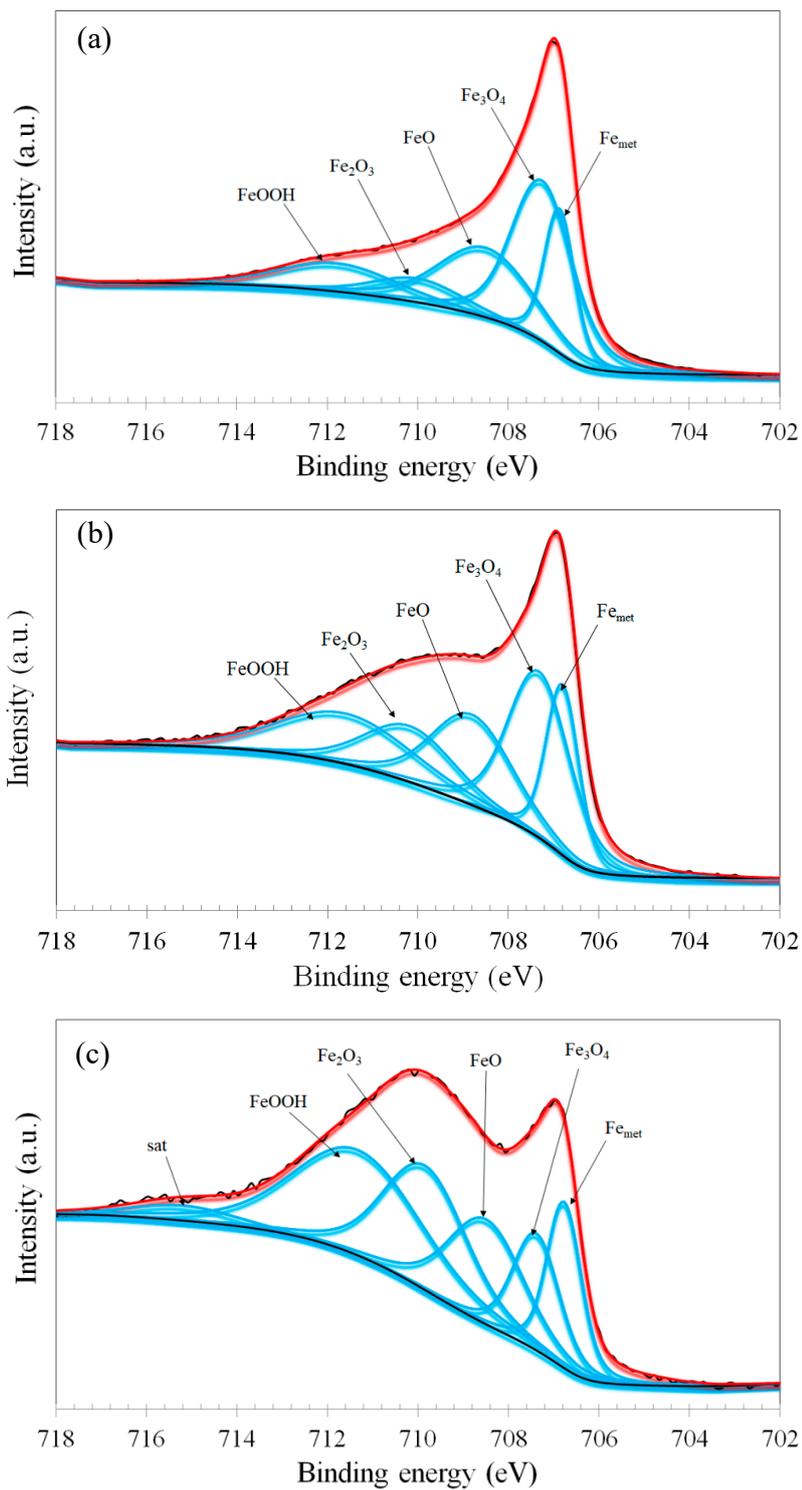


Figure S3. XPS narrow scan spectra in the Fe 2p_{3/2} region: a) naturally formed passive film; b) wear track of the OCP sample; c) wear track of the -100 mV vs. OCP.

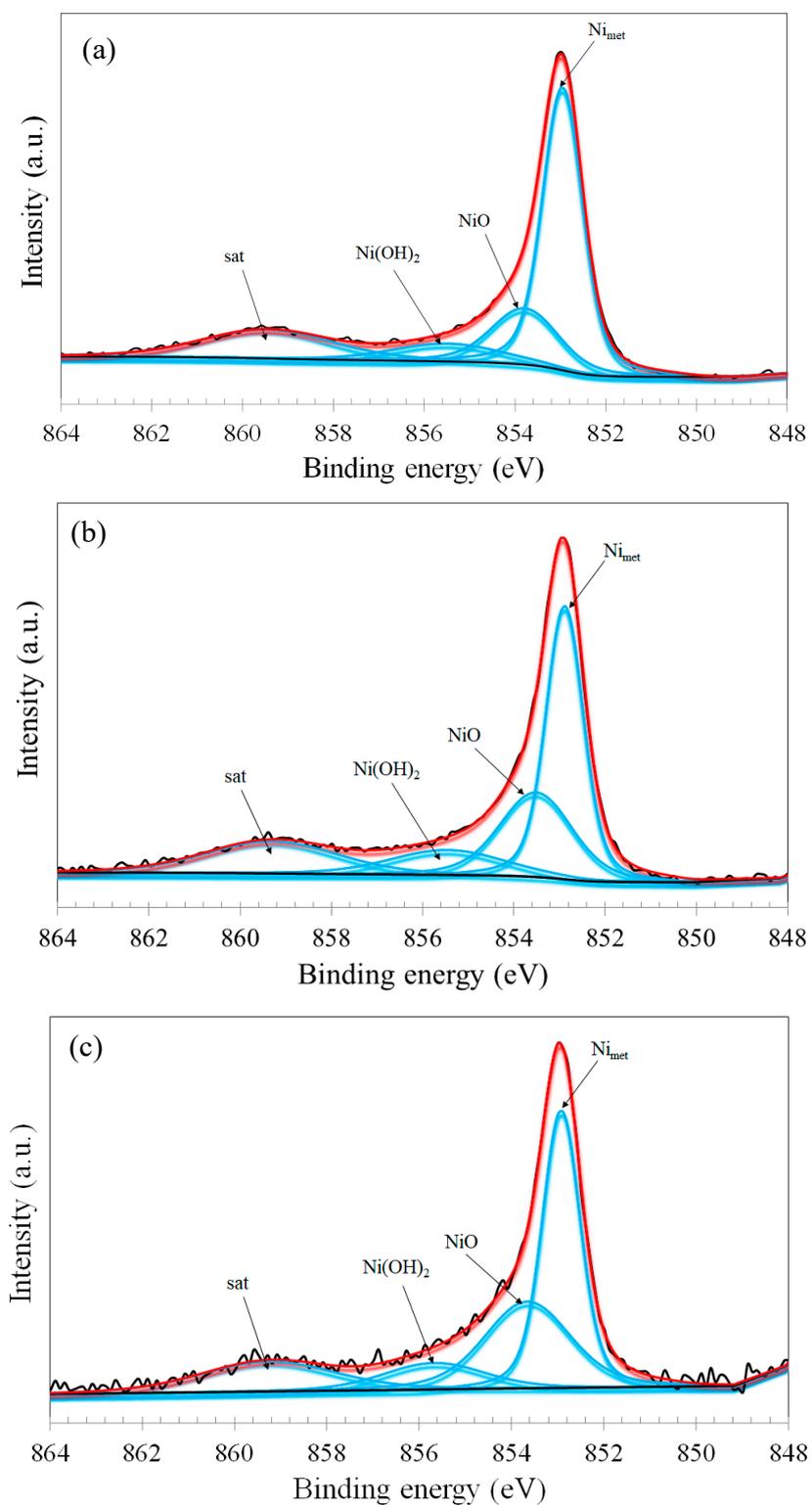


Figure S4. XPS narrow scan spectra in the Ni 2p_{3/2} region: a) naturally formed passive film; b) wear track of the OCP sample; c) wear track of the -100 mV vs. OCP.

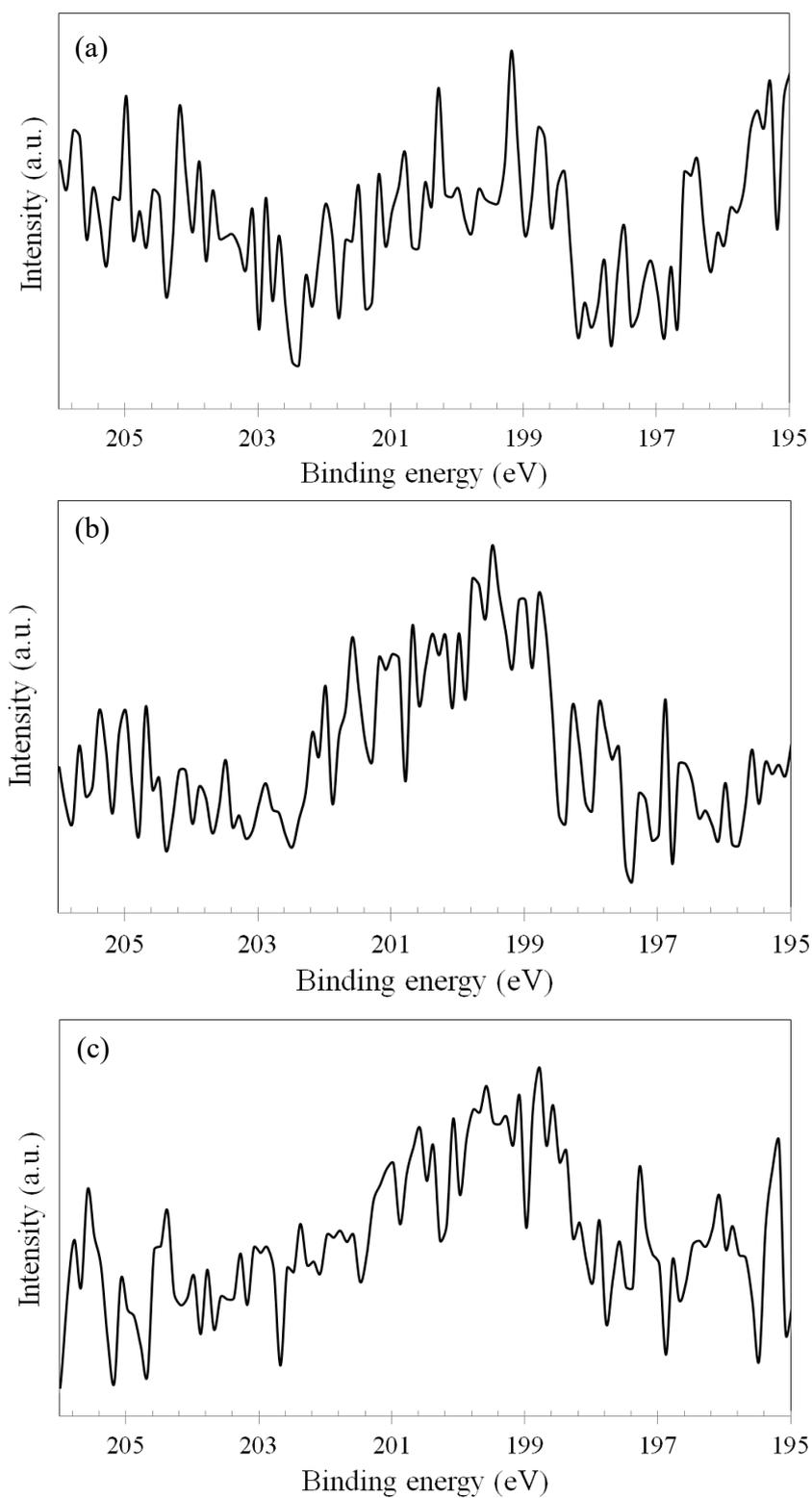


Figure S5. XPS narrow scan spectra in the Cl 2p region: a) +200 mV vs. Ag/AgCl; b) +700 mV vs. Ag/AgCl; c) -100 mV vs. OCP.