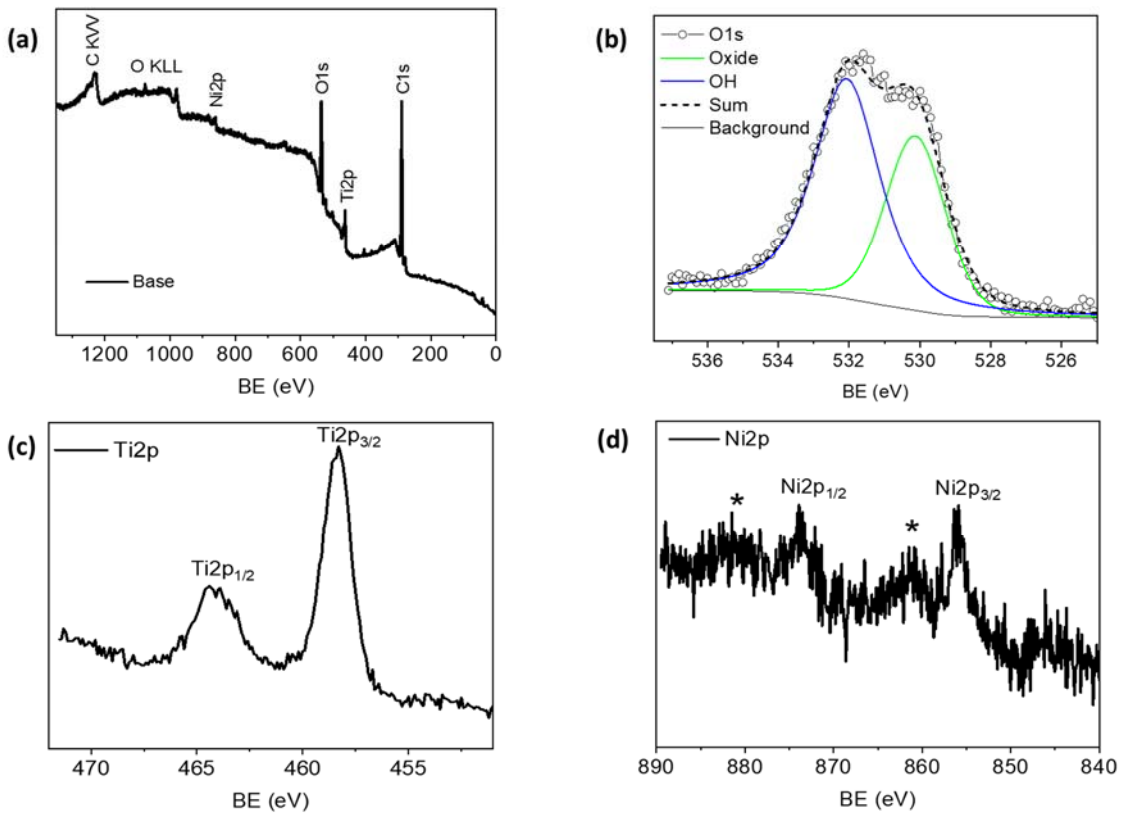

Figure S1: Representative XPS survey (a) and detailed scans (b-d) for the pristine sample.

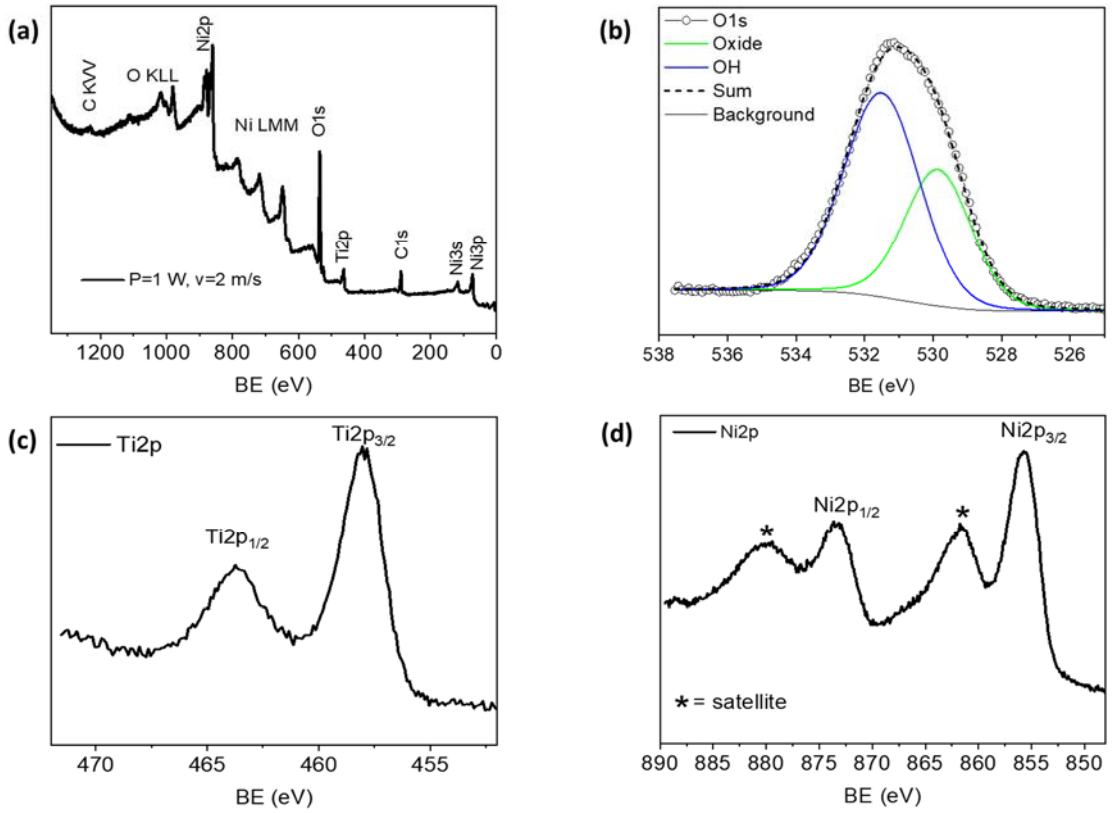

Figure S2: Representative XPS survey (a) and detailed scans (b-d) for the sample P = 1 W, v = 2 m/s.

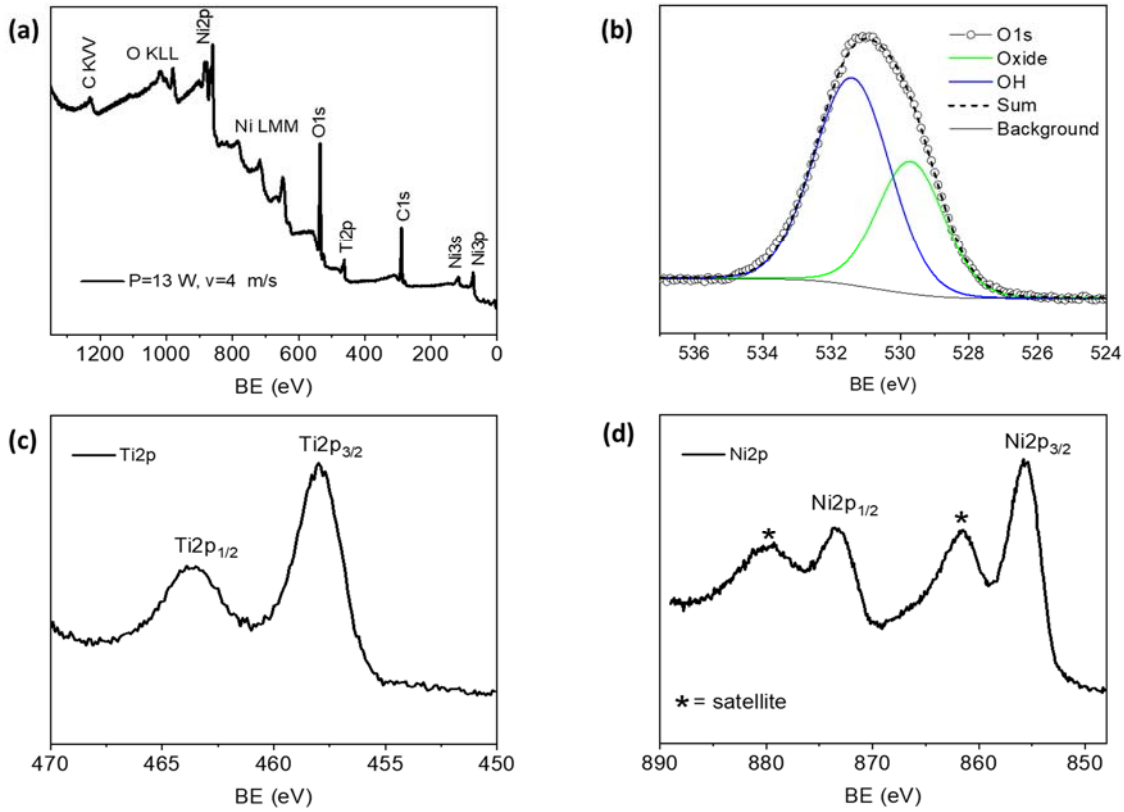

Figure S3: Representative XPS survey (a) and detailed scans (b-d) for the sample P = 13 W, v = 4 m/s.

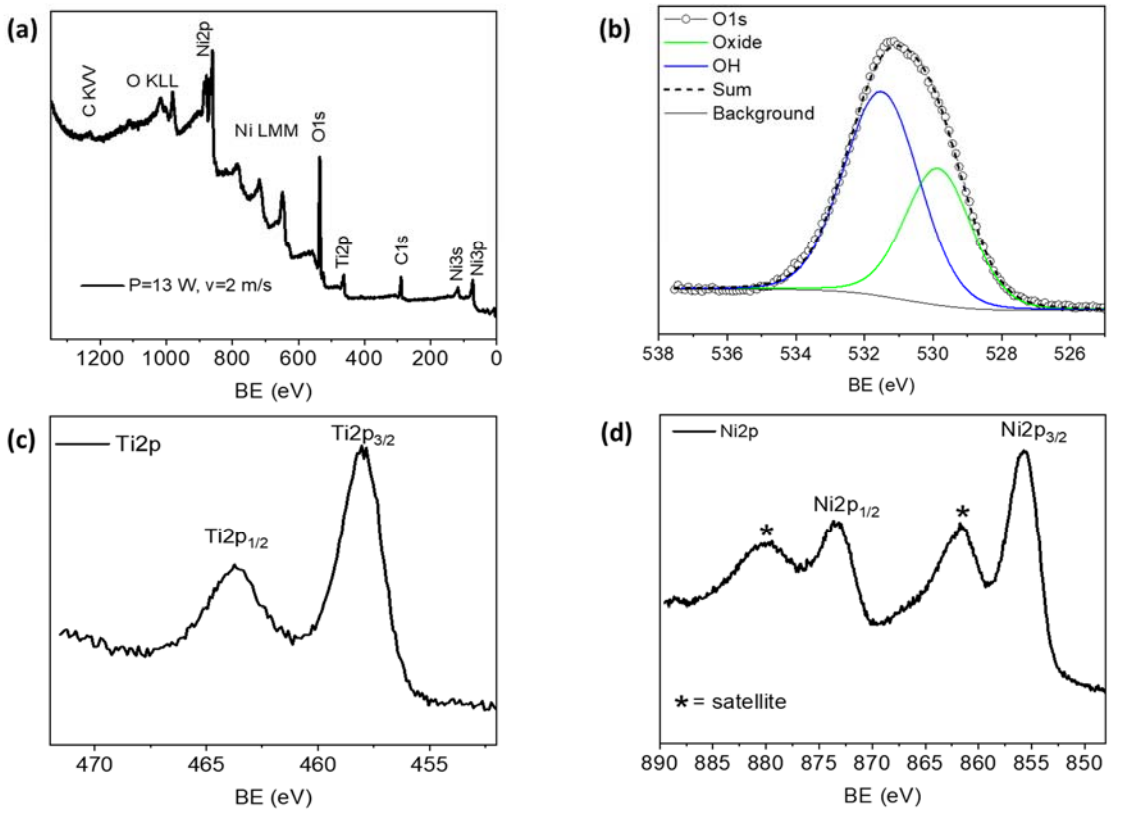

Figure S4: Representative XPS survey (a) and detailed scans (b-d) for the sample P = 13 W, v = 2 m/s.