Electronic supplementary information for

Nanoporous Surface Alloys as Highly Active and Durable

Oxygen Reduction Reaction Electrocatalysts

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Element	Weight(%)	Atomic(%)
Al K	44.31	78.68
Ni K	13.41	10.94
Pt M	42.28	10.38
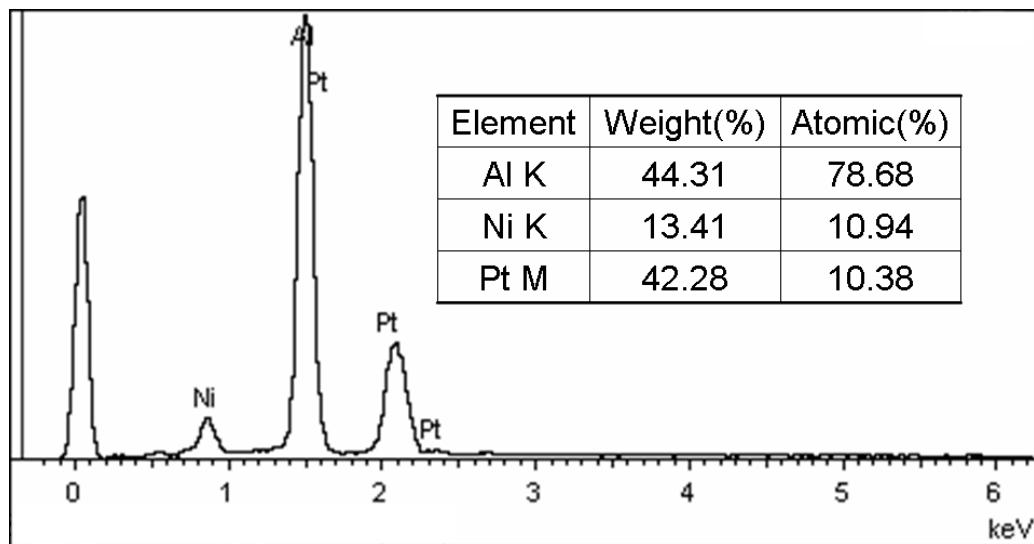
Figure S1. EDS results of the pristine Pt/Ni/Al alloy sample.
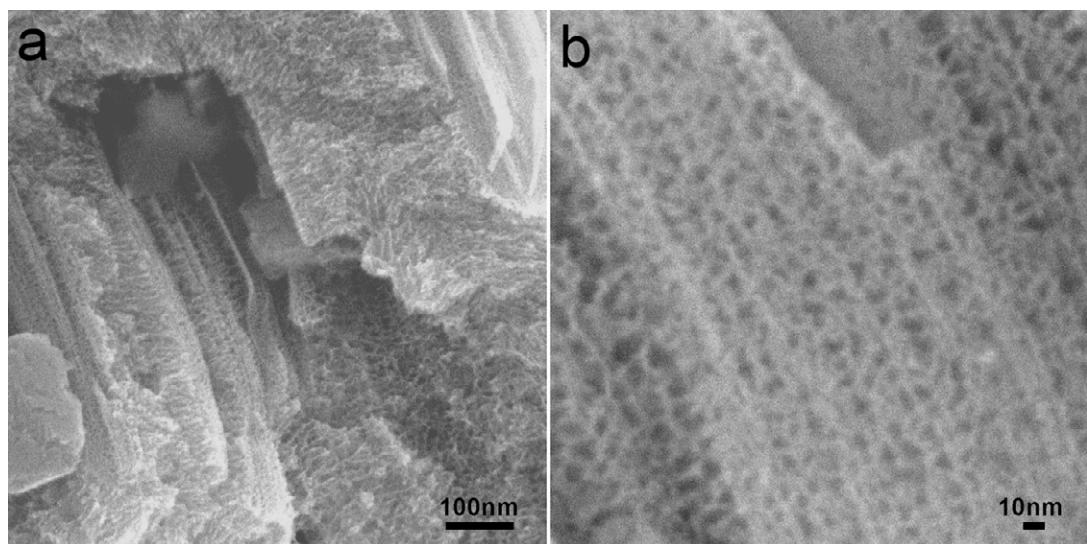
Figure S2. SEM images of the NP-Pt_1Ni_1 sample.

Element	Weight(%)	Atomic(%)
Ni K	24.50	51.88
Pt M	75.50	48.12
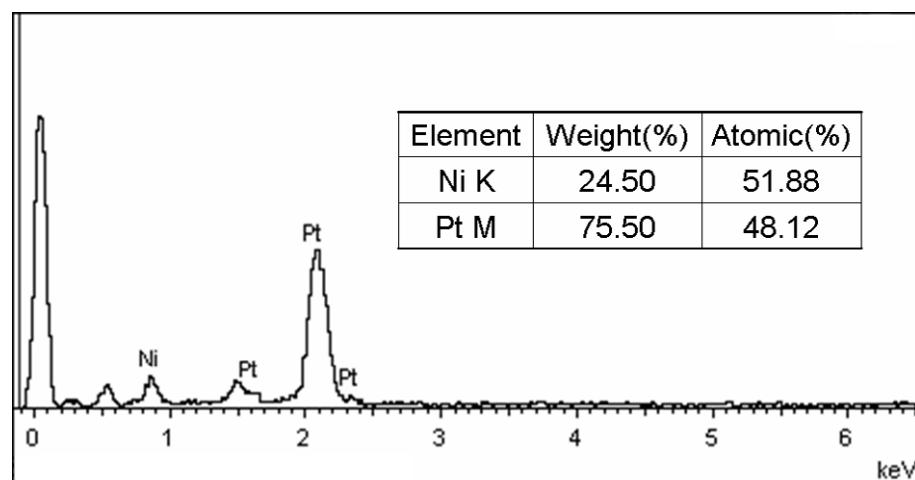
Figure S3. EDS results of the prepared NP-Pt_1Ni_1 alloy sample.

| Element	Weight (%)	Atomic (%)
Ni K	4.8	14.3
Pt M	95.2	85.7

Full Scale 2485 cts Cursor: 0.000
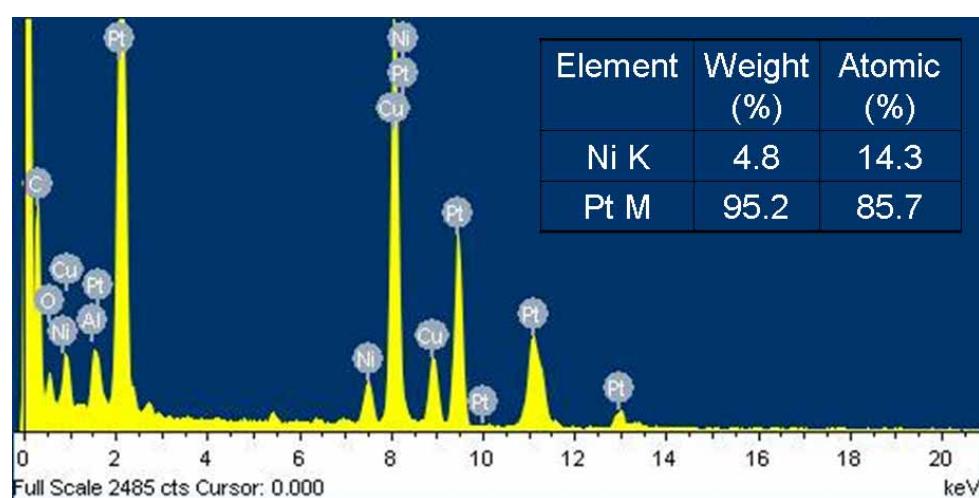
Figure S4. EDS results of the prepared NP-Pt_6Ni_1 alloy sample.
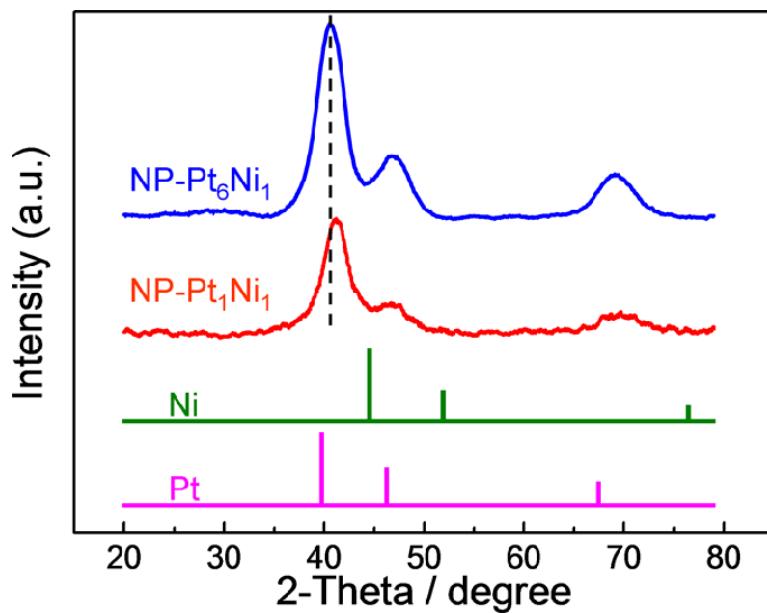
Figure S5. XRD patterns of the dealloyed NP-Pt_1Ni_1 and NP-Pt_6Ni_1 samples. The standard patterns of Pt (JCPDS 65-2868), and Ni (JCPDS 65-2865) are also shown for comparison.
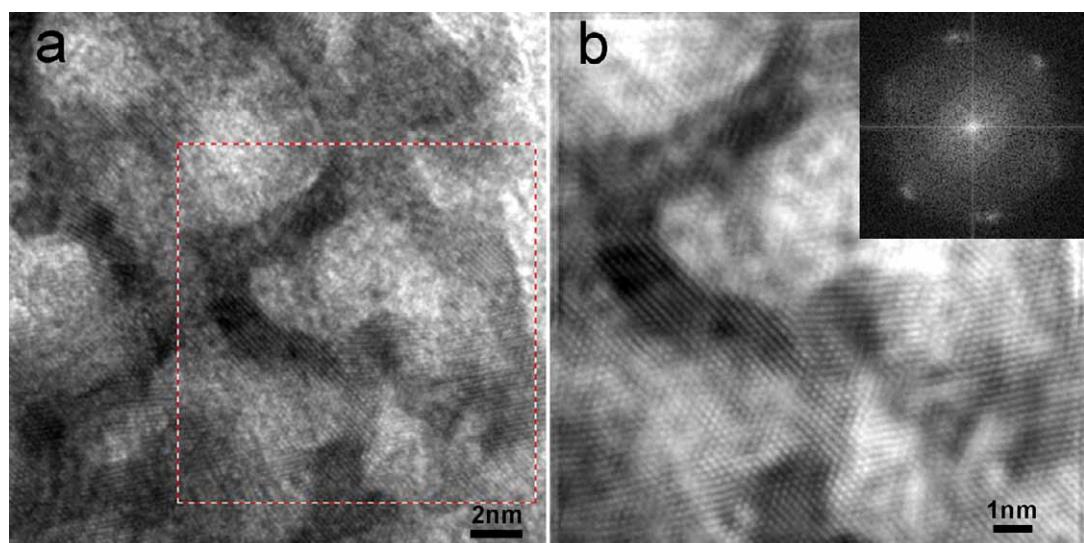

Figure S6. (a) HRTEM images of NP-Pt_1Ni_1. (b) Fourier filtered HRTEM image of the square part in Figure S6a. The Fourier transformed image of the square site in Figure S6a is shown as an insert.