**Supplementary information**

Enhanced electrocatalytic hydrogen evolution activity of nickel foam by low-temperature-oxidation

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**Fig. S1** SEM image of naked Ni foam.

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**FiG. S2** XRD pattern of pure NiO.

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**FiG. S3** The *i-t* curve of 3D NiO/NF (-70 mV vs. RHE) (a) and the *v-t* curve of 3D NiO/NF (-10 mA cm-2) (b).

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**FiG. S4** Cyclic voltammograms of the NF recorded at pH=14 and between -0.05 V and +0.05 V vs. Ag/AgCl at a scan rate of 50 mV s-1

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