**Facile Synthesis of Ni3S2/rGO Nanosheets Composite on Nickel Foam as Efficient Electrocatalyst for Hydrogen Evolution Reaction in Alkaline Media**

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**Supporting Information**

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**Fig. S1** SEM image of bare nickel foam.

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**Fig. S2** CV curves of (a) Ni foam, (b) Ni3S2@NF and (c) Ni3S2-rGO@NF collected at various scan rates (20, 40,60, 80, 100, 120, 140, 160, 180, 200 mV s-1).

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**Fig. S3** CV curves of theNi3S2@NF and Ni3S2-rGO@NF electrodes collected in phosphate buffered solution (pH=7) at ascan rate of 50 mVs-1 in the potential range from -0.6 to 0.6 V vs. SCE.

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**Fig. S4** Turnover frequency (TOF) curves of the Ni3S2@NF and Ni3S2-rGO@NF electrodes.

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**Fig. S5** The *i*-t curve (a) and *v*-t curve (b) of Ni3S2-rGO@NF electrode (without IR-compensation).

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