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## **Supporting information**

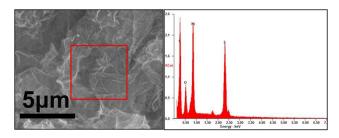
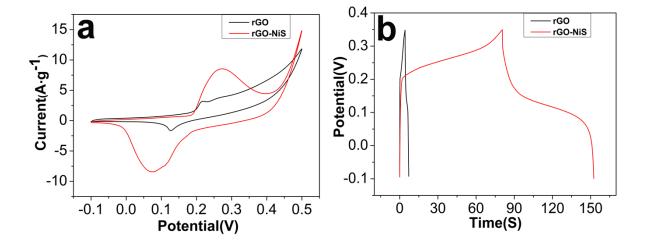


Fig. S1 The EDS measurement of self-assembled NiS-rGO aerogel.



**Fig. S2** CV curves at 5 mV·s<sup>-1</sup> (a) and charge and discharge profiles at an current density of 5 A·g<sup>-1</sup> (b) of pure rGO and NiS-rGO aerogel separately.

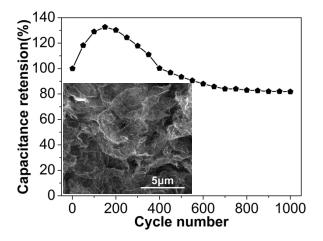


Fig. S3 The cycling performance of NiS-rGO nanocomposite at a current density of 2 A·g-1.