Supporting Information for

## Sandwich-like cobalt sulfide-graphene composite-An anode material of excellent electrochemical performance for sodium ion battery

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Fig. S1 (a) AFM images (b) line profile of graphene.

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Fig. S2 (a) Low-magnification SEM images, (b) high-magnification SEM images of CoS.



**Fig. S3** Galvanostatic charge–discharge curves between 0.05 and 2.0 V at different current densities: (a) CoS/rGO, (b) CoS.



**Fig. S4** The first three cycles discharge and charge curves of pure graphene between 0.05 and 2.0 V.