Supporting information for

Gd-Sn alloy and Gd-Sn-graphene composites as anode materials for lithium-ion batteries

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Fig. S1. (a) The N\textsubscript{2} adsorption-desorption and (b) corresponding pore size distribution curve of the GdSn\textsubscript{6}/Graphene composite.

Fig. S2. The CV curves of pure Sn electrode.
Fig. S3 The charge/discharge capacity and cumbic efficiency of the pure Sn.

Fig. S4 The charge/discharge capacity and cumbic efficiency of the graphene.